

Oregon Territorial Sea Plan

PART FIVE:

Use of the Territorial Sea for the Development of Renewable Energy Facilities or Other Related Structures, Equipment or Facilities

PART FIVE of the Oregon Territorial Sea Plan¹ describes the process for making decisions concerning the development of renewable energy facilities (*e.g.* wind, wave, current, thermal, etc.) in the state territorial sea, and specifies the areas where development may be sited. The requirements of Part Five are intended to protect areas important to renewable marine resources (*i.e.* living marine organisms), ecosystem integrity, marine habitat and areas important to fisheries from the potential adverse effects of renewable energy facility siting, development, operation, and decommissioning and to identify the appropriate locations for that development which minimize the potential adverse impacts to existing ocean resource users and coastal communities.

Oregon’s renewable energy portfolio lists ocean energy as a renewable energy source with potential to reduce dependence on fossil fuels.² Renewable energy facilities development may present opportunities to apply technologies that rely on wind, wave, current or thermal energy, which may potentially reduce the environmental impact of fossil fuels. Oregon prefers to develop renewable energy through a precautionary approach that supports the use of pilot projects and phased development in the initial stages of commercial development. If developed in a responsible and appropriate manner, in accordance with the requirements of this Part and other applicable state and federal authorities, renewable ocean energy may help preserve Oregon’s natural resources and enhance our quality of life.

A. Renewable Energy Facilities Development

¹ See Part One, section C for the Oregon Territorial Sea and Territorial Sea Plan description

² It is the goal of Oregon to develop permanently sustainable energy resources and the policy of the state to encourage the development and use of these resources. ORS 469.010(2) provides in part:

“It is the goal of Oregon to promote the efficient use of energy resources and to develop permanently sustainable energy resources. The need exists for comprehensive state leadership in energy production, distribution and utilization. It is, therefore, the policy of Oregon:

“(a) That development and use of a diverse array of permanently sustainable energy resources be encouraged utilizing to the highest degree possible the private sector of our free enterprise system.
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“(g) That state government shall provide a source of impartial and objective information in order that this energy policy may be enhanced.”

1. Background

Oregon's territorial sea has been identified as a favorable location for siting renewable energy facilities for research, demonstration and commercial power development. These facilities may vary in the type and extent of the technologies employed and will require other related structures, equipment or facilities to connect together, anchor to the seafloor and transfer energy to on-shore substations. The State of Oregon will require the proper siting and development of these facilities in order to minimize damage to or conflict with other existing ocean uses and to reduce or avoid adverse effects on marine ecosystems and coastal communities.

State agencies, including the Oregon Departments of State Lands, Fish and Wildlife, Parks and Recreation, Environmental Quality, Land Conservation and Development, Water Resources, Energy, and Geology and Mineral Industries, need specific policies and standards for considering the siting and regulation of renewable energy facility development in the territorial sea. The policies, standards, data and information within the Territorial Sea Plan should also assist federal agencies in the siting and regulation of renewable energy facilities development located in federal waters adjacent to the territorial sea.³

NOTE: Notwithstanding Part One, paragraph F.1.b, the following policies and implementation requirements are mandatory. Decisions of state agencies⁴ with respect to approvals of permits, licenses, leases or other authorizations to construct, operate, maintain, or decommission any renewable energy facility to produce, transport or support the generation of renewable energy within Oregon's territorial waters and ocean shore must comply with the requirements mandated in the Territorial Sea Plan. Once NOAA/OCRM approves the incorporation of the enforceable policies (see Part Five, Appendix D) 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.

2. Policies

The following policies apply generally to renewable energy facilities within the Territorial Sea, and establish the guiding principles for the implementation requirements listed in sections B and C. When making decisions to authorize the siting, development, operation, and decommissioning of renewable energy facilities within the territorial sea, regulating agencies shall:

- a. Maintain and *protect* renewable marine resources (*i.e.* living marine organisms), ecosystem integrity, *marine habitat* and *areas important to fisheries* from adverse effects that may be caused by the installation or operation or removal of renewable energy facility by requiring that such actions:

³ Part One, subsections E.1 and E.2 provide a brief description of programs of certain state and federal agencies with regulatory, consultation or other authority or responsibility for management of ocean resources.

⁴ State agencies making decisions to authorize the siting, development and operation of renewable energy facilities development or other related structures, equipment or facilities within the Territorial Sea, will be referred to as "the regulating agency" or "regulating agencies".

- 1.) Avoid adverse effects to the integrity, diversity, stability and complexity of the marine ecosystem and coastal communities, and give first priority to the conservation and use of renewable marine resources;
 - 2.) Minimize effects by limiting the degree or magnitude of the action and its implementation;
 - 3.) Rectify or mitigate the effects that occur during the lifetime of the project by monitoring and taking appropriate corrective measures through adaptive management; and
 - 4.) Restore the natural characteristics of a site to the extent practicable when the project is decommissioned and removed.
- b. Protect renewable marine resources; the biological diversity and functional integrity of the marine ecosystem, important marine habitat, areas important to fisheries, navigation, recreation and aesthetic enjoyment (*see also* Goal 19);
 - c. Communicate and collaborate with an applicant for a state or federal authorization for the siting, development and operation of renewable energy facilities and affected ocean users and coastal communities to reduce or avoid conflicts;
 - d. Strongly encourage applicants to engage with local, state and federal agencies, community stakeholders, tribal governments and affected ocean users in a collaborative agreement-seeking process prior to formally requesting authorization to initiate a project;⁵
 - e. Limit the potential for unanticipated adverse impacts by requiring, when resource inventory and effects information is insufficient, the use of pilot projects and phased development to collect data and study the effects of the development on the affected marine resources and uses; and
 - f. Encourage the research and responsible development of ocean-based renewable energy sources including wave, tidal, and wind that meet the state’s need for economic and affordable sources of renewable ocean energy.

B. Implementation Requirements

Regulating agencies shall apply the following implementation requirements when considering a proposal for the placement or operation of a renewable energy facility-within the Oregon

⁵ In its “Rules Governing the Placement of Ocean Energy Conversion Devices On, In or Over State-Owned-Land within the Territorial Sea”, the Department of State Lands requires applicants to meet with the agency, as well as affected ocean users and other government agencies having jurisdiction in the Territorial Sea, prior to applying for a lease or temporary authorization. OAR 141-140-0040.

Territorial Sea. Regulating agencies shall comply with the standards and procedural requirements in Part Five of the Territorial Sea Plan as prescribed below. This includes the cables, connectors or other transmission devices that connect, anchor, support or transmit energy between the separate components within a renewable energy facility. Regulating agencies shall apply the requirements in Part Four, Uses of the Seafloor for Telecommunication Cables, Pipelines, and other Utilities, to the utility cables that transmit the electrical energy from the renewable energy facility to the on-shore substation.⁶ The requirements in Part Two, Making Resource Use Decisions, sections A and B will not apply to the evaluation, siting or operation of renewable energy development or other related structures, equipment or facilities.

1. Siting: areas designated for renewable energy facilities development.

a. In State Waters:

Pursuant to the requirements for amending the Territorial Sea Plan under ORS 196.471, to carry out the policies of the Oregon Ocean Resources Management Act and consistent with the statewide planning goals, the Land Conservation and Development Commission has designated areas of the territorial sea appropriate for the development of renewable energy facilities (*see* Map Designations in Appendix B), and established the review standards for siting projects within those designated areas (*see* section B.4).⁷ Renewable energy facilities development of the state lands of the territorial sea lying seaward of Extreme Low Water (*i.e.* the seaward boundary of the Ocean Shore State Recreation Area) shall be sited within an area designated for that use so as to avoid, minimize or mitigate the adverse effects of the project, and to protect: renewable marine resources, biological diversity and functional integrity of marine ecosystem, important marine habitat, and areas important to fisheries, as provided in Goal 19 Ocean Resources.

b. In Federal Waters:

The Department of Land Conservation and Development will review federal decisions to permit, license, or otherwise authorize renewable energy facilities within the waters and seafloor of the outer continental shelf adjacent to the Oregon Territorial Sea that have reasonably foreseeable effects on coastal resources or uses for consistency with the

⁶ The manner in which federal agencies comply with the enforceable policies and information requirements of Goal 19 is governed by NOAA's CZMA Federal Consistency regulations at 15 CFR Part 930. Thus, any reference to "federal agencies" in the Territorial Sea Plan does not impose obligations on federal agencies that are in addition to those described in the CZMA and NOAA's regulations.

⁷ ORS 196.471, entitled "Territorial Sea Plan review requirements, provides in part:

"(1) The Land Conservation and Development Commission shall review the Territorial Sea Plan and any subsequent amendments recommended by the Ocean Policy Advisory Council to either the Territorial Sea Plan or the Oregon Ocean Resources Management Plan and make findings that the plan or amendments:

"(a) Carry out the policies of ORS 196.405 to 196.515; and

"(b) Are consistent with applicable statewide planning goals, with emphasis on the four coastal goals.

"(2) After making the findings required by subsection (1) of this section, the commission shall adopt the Territorial Sea Plan or proposed amendments as part of the Oregon Coastal Management Program."

Territorial Sea Plan and the applicable enforceable policies of the Oregon Coastal Management Program pursuant to NOAA’s CZMA federal consistency regulations at 15 CFR Part 930.⁸ Federal actions, including the issuance of any federal authorizations that are subject to Oregon CZMA review, shall be supported by the information required in NOAA’s regulations at either 15 CFR §§ 930.39, 930.58 or 930.76.⁹

2. State Agency Review Process

Pursuant to ORS 196.485 and ORS 197.180, state agencies shall apply the policies and provisions of the Oregon Ocean Resources Management Plan, Oregon Territorial Sea Plan, and Goal 19 Ocean Resources 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, the Department of Land Conservation and Development will review the consistency certification together with required necessary data and information submitted by the applicant for federal authorization for a renewable energy facilities development to ensure the project is consistent with enforceable policies of the Oregon Coastal Management Program, including the Territorial Sea Plan.

The Department of State Lands (DSL) shall coordinate the review of applications for proprietary authorizations in consultation with the Joint Agency Review Team (JART) as described in paragraph B.3.a.

3. JART Project Review Process and Coordination

(DSL) shall convene the JART during the pre-application and application phases in order to facilitate the coordination of state and federal agencies, in consultation with local jurisdictions, as they apply their separate regulatory, proprietary, or other authorities to the review of a proposed renewable energy facility.

- a. DSL will invite representatives from the following agencies, jurisdictions and organizations to be members of the JART:
 - 1.) Departments of Fish and Wildlife, Parks and Recreation, Environmental Quality, Land Conservation and Development, Water Resources, Energy, and Geology and Mineral Industries;

⁸ Whether a particular federal license or permit activity proposed in federal waters is subject to Oregon review depends on whether the State has, pursuant to 15 CFR § 930.53, (1) listed the federal authorization in the Oregon Coastal Management Program, and (2) the proposed listed activity falls within a NOAA-approved “Geographic Location Description” (GLD). If Oregon has not listed the activity and does not have a NOAA-approved GLD, the State can seek NOAA approval to review a project on a case-by-case basis as an “unlisted activity” pursuant to 15 CFR § 930.54. If a federal action, including the issuance of any federal authorizations, is subject to Oregon CZMA review, it shall be supported by the information required in NOAA’s regulations at either 15 CFR §§ 930.39, 930.58 or 930.76.

⁹ The regulations for federal consistency with approved state coastal programs are prescribed in 15 CFR Part 930. “Energy projects” are defined under 15 CFR § 930.123(c) to mean “projects related to the siting, construction, expansion, or operation of any facility designed to explore, develop, produce, transmit or transport energy or energy resources that are subject to review by a coastal State under subparts D, E, F or I of this part.”

- 2.) Federal agencies, as invited, with regulatory or planning authority applicable to the proposed project and location;
- 3.) Local jurisdictions including representatives from affected cities, counties, and their affected communities, and affected port districts;
- 4.) Statewide and local, organizations and advisory committees, as invited, to participate in the JART application of specific standards, including but not limited to those addressing areas important to fisheries, ecological resources, recreation and visual impacts; and,
- 5.) Federally Recognized Coastal Tribes in Oregon.

b. JART Roles and Responsibilities

- 1.) The JART will coordinate with DSL¹⁰ on the pre-application review process, and comment on the adequacy of the resource inventories and effects evaluations required under subsection B.4 (Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards), and National Environmental Policy Act (NEPA) environmental assessments and environmental impact statements.
- 2.) The JART will make recommendations to regulating agencies on whether the information provided by the applicant for the proposed renewable energy facility meets the applicable standards and screening criteria associated with the map designation standards and criteria.
- 3.) The JART will make recommendations to DSL on the approval of proprietary authorizations, and to other applicable regulatory agencies on their decision to permit, license or authorize proposed renewable energy facility projects.¹¹
- 4.) The JART will also consider and make recommendations on the adequacy of the information provided for the operation plan, as required under section D. (Operation Plan Development), including the monitoring requirements, mitigation measures, adaptive management plans, construction and operational performance standards, or any other special conditions that a regulating state agency may apply pursuant to the lease, permit, license or other authorization.
- 5.) The JART recommendations are advisory; regulating agencies who are members of the JART still operate in accordance with their own rules and statutory mandates.
- 6.) DSL may acquire the services of technical experts to assist the JART in analyzing specific subject information such as marine business economics and operations, as necessary to conduct the application review.

4. Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards

An applicant must provide the regulating agencies the data and information to complete the Resource and Use Inventory and Effects Evaluation and apply the Special Resource and

¹⁰ OAR chapter 141, division 140 establishes and prescribes the pre-application process for renewable energy facilities within the territorial sea.

¹¹ For purposes of CZMA federal consistency reviews in accordance with NOAA's regulations at 15 CFR Part 930 and ORS 196.435, the Department of Land Conservation and Development is the designated state agency for conducting the federal consistency review.

Use Review Standards, prior to the regulating agencies making any decision.¹² State agencies will assist the applicant by providing readily available data and other information as applicable to the review process. An applicant may use relevant inventory information included in a project application to a federal agency to meet the requirements of this subsection.

a. Purpose of the Resource and Use Inventory and Effects Evaluation Special Resource and Use Review Standards

The purpose of the Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards is to provide the regulating agencies the data and information necessary to make a decision based on the potential coastal effects the project might incur. Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards will help identify where the applicant needs to address deficiencies. The regulating agency will use the evaluation to develop specific measures for environmental protection and mitigation, measures to protect ocean uses, monitoring, and adaptive management.

b. Sufficiency of Resource and Use Inventory and Effects Evaluation

An applicant must provide information and data to complete the Resource and Use Inventory and Effects Evaluation and apply the Special Resource and Use Review Standards that is sufficient to identify and quantify the short-term and long-term effects of the proposed renewable energy facility development on the affected marine resources and uses.

c. Use of Available Environmental Information

Regulating agencies may allow the applicant to use existing data and information from other authoritative sources, including NEPA documents, when complying with the requirements for the Resource and Use Inventory and Effects Evaluation and Special Resource Use Review Standards.

d. Inventory Content

To evaluate the magnitude of the proposed project, the likelihood of project effects, and the significance of the resources and uses that the project may affect, regulating agencies shall require that the applicant include consideration of certain factors in the inventory. The Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards requirements apply to all renewable energy facility projects for which an applicant pursues a DSL proprietary authorization, unless the requirements are waived by DSL or otherwise addressed in another subsection of the plan. In addition to the resource inventory and effects evaluation content of this paragraph, projects are also subject to the Special Resource and Use Review Standards specified in paragraph B.4.g.

¹² This is not “necessary data and information” for the purposes of 15 CFR § 930.58(a)(1)(ii).

- 1.) Information regarding the development, placement, operation, maintenance, and decommissioning of the project:
 - (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 hazardous materials, if any, to be used or produced;
 - (g) Navigation aids; and
 - (h) Proposed time schedule.

- 2.) Location and description of all affected areas, including, but not limited to:
 - (a) Site of the renewable energy facility;
 - (b) Adjacent areas that may be affected by physical changes in currents and waves caused by the project;
 - (c) Utility corridor transiting the territorial sea and ocean shore; and
 - (d) Shoreland facilities.

- 3.) Physical and chemical conditions including, but not limited to:
 - (a) Water depth;
 - (b) Wave regime;
 - (c) Current velocities;
 - (d) Dispersal, horizontal transport, and vertical mixing characteristics;
 - (e) Meteorological conditions; and
 - (f) Water quality.

- 4.) Bathymetry (bottom topography) and Shoreline Topography (LIDAR Light Detection and Ranging)

- 5.) Geologic structure, including, but not limited to:
 - (a) Geologic hazards, such as faults or landslides of both marine and shoreline facility areas;
 - (b) Mineral deposits;
 - (c) Seafloor substrate type; and
 - (d) Hydrocarbon resources.

- 6.) Biological features, including, but not limited to:
 - (a) Critical marine habitats (*see* Part Five, Appendix A);
 - (b) Other marine habitats;
 - (c) Fish and shellfish stocks and other biologically important species;
 - (d) Recreationally or commercially important finfish or shellfish species;
 - (e) Planktonic and benthic flora and fauna;
 - (f) Other elements important to the marine ecosystem; and
 - (g) Marine species migration routes.

- 7.) Cultural, economic, and social uses affected by the renewable energy facility, 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;
 - (h) Waste water or other discharge;
 - (i) Utility or pipeline corridors and transmission lines;
 - (j) Military uses; and
 - (k) Aesthetic resources.
- 8.) Significant historical, cultural or archeological resources.
- 9.) Other data that the regulating agencies determine to be necessary and appropriate to evaluate the effects of the proposed project.

e. Written Evaluation.

Regulating agencies shall require the applicant to submit a written evaluation of all the reasonably foreseeable adverse effects associated with the development, placement, operation, and decommissioning of the proposed renewable energy facility. For purposes of the evaluation, the submittal shall base the determination of “reasonably foreseeable adverse effects” on scientific evidence. The information and data to comply with the Special Resources and Uses Standards is specified in paragraph B.4.g. The evaluation shall describe the potential short-term and long-term effects of the proposed renewable energy facility on marine resources and uses of the Oregon territorial sea, continental shelf, onshore areas and coastal communities based on the inventory data listed in paragraph B.4.d and the following considerations:

1.) Biological and Ecological Effects:

Biological and ecological effects include those on critical marine habitats and other habitats, and on the species those habitats support. The evaluation shall determine the probability of exposure and the magnitude of exposure and response, as well as the level of confidence (or uncertainty) in those determinations. The evaluation need not discuss highly speculative consequences. However, the evaluation shall discuss 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 operating procedures or accidents.

2.) Current Uses:

Evaluate the effects of the project on current uses and the continuation of a current use of ocean resources such as fishing, recreation, navigation, and port activities.

Factors to consider include, but are not limited to:

- (a) Local and regional economies;
- (b) Archeological and historical resources; and
- (c) Transportation safety and navigation.

3.) Natural and Other Hazards

Evaluate the potential risk to the renewable energy facility, in terms of its vulnerability to certain hazards and the probability that those hazards may cause loss, dislodging, or drifting of structures, buoys, or facilities. Consider both the severity of the hazard and the level of exposure it poses to the renewable marine resources and coastal communities. Hazards to be considered shall include the scouring action of currents on the foundations and anchoring structures, slope failures and subsurface landslides, faulting, tsunamis, variable or irregular bottom topography, weather related, or due to human cause.

4.) Cumulative Effects

Evaluate the cumulative effects of a project, including the shoreland component, in conjunction with effects of any prior phases of the project, past projects, other current projects, and probable future projects.¹³ The evaluation shall analyze the biological, ecological, physical, and socioeconomic effects of the renewable energy facility development and of other renewable energy facility 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.

(a) In conducting the cumulative effects analysis, the applicant shall focus on the specific resources and uses, as detailed under paragraph B.4.d that may be affected by the incremental effects of the proposed project and other projects in the same geographic area. The evaluation shall include but not be limited to consideration of whether:

- i. the resource and uses are especially vulnerable to incremental effects;
- ii. the proposed project is one of several similar projects in the same geographic area;

¹³ Under the National Environmental Policy Act (NEPA), “cumulative impacts” means “the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-federal) or person undertakes such actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.” 40 CFR. § 1508.7.

- 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.

B) The JART shall make recommendations as to the adequacy of the cumulative effects analysis that regulating agencies shall require of the applicant for phased development projects as described under subparagraph B.4.f.3 and subsection D.1. The JART will use the analysis to inform the location, scale, scope and technology of subsequent stages of the phased development project.

5.) Adaptive Management

Regulating agencies and the project developer shall use adaptive management and monitoring to evaluate the project at each subsequent phase; the intent of such evaluation is to inform the design, installation and operation of successive phases.

f. Pilot and Phased Development Projects

An applicant may not be able to obtain or provide the information required by subsection B.4 (Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards), due to the lack of data available about the effect that the proposed development may have on marine resources and uses. When JART recommends and DSL determines that the information provided by the applicant is not sufficient or complete enough to fulfill the requirements of subsection B.4, a regulating agency has the following options:

1.) Agency Discretion

The regulating agency may terminate the state permit decision-making process or suspend the state permit process until the applicant provides the information.¹⁴

2.) Pilot Project

The regulating agency may recommend that an applicant conduct a pilot project to obtain adequate information and data and measure the effects.¹⁵ Pilot projects are renewable energy facility developments which are removable or able to be shut down quickly, are not located in sensitive areas, and are for the purpose of testing

¹⁴ For purposes of CZMA federal consistency reviews, NOAA's regulations at 15 CFR Part 930 determine when the CZMA review periods start and ends; a state cannot start, terminate or suspend the CZMA review independent of NOAA's requirements.

¹⁵ Alternatively, DLCD may issue a CZMA "conditional concurrence" under 15 CFR § 930.4 and include a condition that in order to be consistent with the information requirements of the Territorial Sea Plan a project developer must first conduct a pilot project, or, if DLCD objects under the CZMA, may recommend a pilot project as an alternative to the proposed project.

new technologies or locating appropriate sites.¹⁶ A regulating agency may allow a project developer to use a pilot project for the purpose of obtaining the data and information necessary to fulfill the requirements of subsection B.4., and shall be based on the following approval criteria:

- (a) The purpose of the pilot project is to provide information on the performance, structural integrity, design, and environmental effects of a specific renewable energy technology or its supporting equipment and structures.
- (b) The applicant shall complete adequate inventories of baseline conditions, as required by paragraph B.4.d (Inventory Content), prior to conducting the pilot project.
- (c) The risk of adverse effects from the pilot project shall be insignificant, because:
 - i. of low probability of exposure of biological communities and habitats;
 - ii. of low sensitivity of the biological communities and habitats to the exposure; or
 - iii. the effects of exposure to sensitive communities and habitats will be insignificant.
- (d) The pilot project shall not adversely affect any “important marine habitat” or “critical marine habitat” (*see* Part Five, Appendix A: Glossary of Terms).
- (e) The pilot project will have a term, not to exceed five years, and authorization for the project will include a standard condition requiring project alteration or shutdown in the event that an unacceptable level of environmental effect occurs.
- (f) The pilot project shall avoid significant or long-term interference with other human uses of marine resources, and will require decommissioning and site restoration at expiration of the authorization period if federal and state authorization for a commercial renewable energy facility is not sought and approved.
- (g) All data necessary to meet the requirements of subsection B.4, shall be in the public domain subject to ORS 192.410 *et seq.*

¹⁶ Pilot Project has the same meaning as “Demonstration Project” under the Department of State Lands rules governing the placement of ocean energy conversion devices on, in, or over state-owned land within the Territorial Sea. OAR 141-140-0020(7) defines “Demonstration Project” as “a limited duration, non-commercial activity authorized under a temporary use authorization granted by the Department to a person for the construction, installation, operation, or removal of an ocean energy facility on, in or over state-owned submerged and submersible land in the Territorial Sea to test the economic and/or technological viability of establishing a commercial operation. A demonstration project may be temporarily connected to the regional power grid for testing purposes without being a commercial operation.”

(h) Work Plan: The applicant shall provide a written work plan which will include, but not be limited to the following:¹⁷

- i. A list of the information needed to satisfy the requirements of subsection B.4.
- ii. Specific pilot project objectives to obtain the needed information and an explanation of how the study or test design will meet the objectives.
- iii. Description of study or test methods to meet the objectives, such as:
Literature review;
Collection of any needed baseline data;
Hypotheses to address the study objectives;
Descriptions of field sampling and data-analyses methods to be used; and
Use of adequate controls to allow the effects of the proposed action to be separated from natural fluctuations in resources and habitats.
- iv. Supporting documentation demonstrating that the study design is scientifically appropriate and statistically adequate to address the research objectives.
- v. Descriptions of how the project developer will report and deliver the data and analyses to the regulating agency for review and approval.

(i) A pilot project that provides the necessary and sufficient information may become a phased development.

3.) Phased Development

The regulating agency may recommend that an applicant conduct a project as a phased development in order to obtain adequate information and data and to measure the incremental effects of each phase prior to further or complete build-out of the project.¹⁸ Phased development projects are renewable energy facility developments which are limited in scale and area, but are designed to produce energy for commercial use. The applicant for a phased development project shall comply with the requirements of subsection B.4. A regulating agency may allow the use of a phased development project to allow for commercial energy production while obtaining certain data and information necessary to fulfill the requirements of subsection B.4 that can only be obtained through the monitoring and study of the effects of the development as it is installed and operated for a discrete period of time.

¹⁷ Pilot projects that are authorized under the standards and conditions of this subparagraph f.2 are not required to fulfill the requirements of section C. The standards and requirements of section C will apply to an application for authorization to expand the pilot project from a short-term limited scope facility to a commercial operation scale facility.

¹⁸ Alternatively, the Department of Land Conservation and Development may issue a CZMA “conditional concurrence” under 15 CFR § 930.4 and include a condition that in order to be consistent with the information requirements of the Territorial Sea Plan that a phased project must first be conducted, or, if the state objects under the CZMA, may recommend a phased project as an alternative to the proposed project.

g. Special Resources and Uses Review Standards

In addition to the resource and use inventory and effects evaluation requirements, special resource and use standards apply to specific areas within the territorial sea, based on the delineation and definition of those areas in Part Five, Appendix B Map Designations. The marine resources and uses addressed in this paragraph are not intended to represent the exclusive subject matter of regulatory agency review process. In applying the special resource and use review standards, the regulating agencies shall use the best available maps and data. A regulating agency may consider new information that it deems sufficient and applicable to the review. The regulating agency will apply each standard in determining the potential adverse effects of the proposed project based on best available science and professional judgment. When confronting significant uncertainty regarding the potential adverse effects of the proposed project, a regulating agency shall apply the precautionary approach in decision-making.

1.) The following siting and development requirements apply to the construction, deployment or maintenance of a renewable energy facility:

- (a) Consider practicable alternative deployment and placement of structures in proximity to the proposed project area that would have less impact on identified resources and uses.
- (b) Minimize construction and installation activities during critical time periods for the resources and uses as identified by appropriate regulatory agencies.
- (c) Minimize disturbance to the identified resources and uses during construction and installation of the renewable energy facility and other structures.

2.) Fisheries Use Protection Standards

The regulating agencies shall protect areas important to fisheries using the following use protection standards to evaluate the impact an individual renewable energy facility would have on fisheries use.

(a) Definition of Terms

- i. Adverse Effect for Fisheries Use Protection Standards: a significant reduction in the access of commercial and recreational fishers to an area spatially delineated as an area important to a single fishing sector, multiple combined sectors, or to the fishing community of a particular port.
- ii. Presumptive Exclusion Fisheries Use Protection Standards: the assumption that the distribution and importance of fisheries use within an area would preclude siting a renewable energy facility based on the potential adverse effects of that development on those identified resources and uses. To overcome the presumptive exclusion, an applicant must demonstrate and the regulating agency must concur that the proposed project meets all applicable standards for protecting the fisheries use subject to potential adverse effects.

(b) General Fisheries Use Protection Standard

The following standards must be considered in determining the possible adverse effects a renewable energy facility might have on fisheries use, and are applicable to applications in all resource and use areas unless otherwise designated by the plan:

- i. Minimize the displacement of fishers from traditional fishing areas, and the related impact on the travel distance and routing required to fish in alternative areas;
- ii. Minimize the compaction of fishing effort caused by the reduction in the areas normally accessible to fishers;
- iii. Minimize the economic impact resulting from the reduction in area available for commercial and recreational fishing for the effected sectors and ports.
- iv. Mitigate possible hazards to navigation and, provide practicable opportunities for vessel transit, at the project location.
- v. Limit the number and size of projects that are located in an area to minimize the impact on a particular port or sector of the fishing industry. Consider the distribution of projects and their cumulative effects based on the criteria listed in (i) through (iv).

(c) Area Designation Fisheries Use Protection Standards

The following standards apply to specific plan areas as delineated and described in the map located in Part Five, Appendix B.

- i. Resources and Uses Conservation Areas (RUCA) Standards
The following standards apply to the protection of areas important to fisheries within Resources and Uses Conservation Areas. Renewable energy facilities within RUCA are presumptively excluded from areas important to fisheries. To overcome the presumptive exclusion, an applicant must demonstrate and the regulating agency must concur that the project will have no reasonably foreseeable adverse effect on areas important to fisheries and there is no practicable alternative site.
- ii. Resource and Use Management Areas (RUMA) Standards
The following standards apply to the protection of areas important to fisheries within Resources and Uses Management Areas. Renewable energy facilities within RUMA may locate within areas important to fisheries of high catch; high value fish in low abundance or low fishing effort; important on a seasonal basis, or; important to individual ports or particular fleet, if the applicant demonstrates and the regulating agency concurs that the project will have no significant adverse effect on areas important to fisheries.

- iii. Renewable Energy Facility Suitability Study Area (REFSSA) Standards
The following standards apply to the protection of areas important to fisheries within Renewable Energy Facility Suitability Study Areas. Renewable energy facilities may locate within REFSSA based on a resource and use inventory evaluation of recreational and commercial fisheries, and the application of the standards listed under subparagraphs g.1 and g.2.b, if applicable.

3.) Ecological Resources Protection Standards

The state shall protect living marine organisms, the biological diversity of marine life, the functional integrity of the marine ecosystem, important marine habitat and associated biological communities by using the following ecological resource protection standards to evaluate marine renewable energy project proposals.

(a) Definition of Terms

- i. Adverse Effect for Ecological Resource Protection Standards: degradation in ecosystem function and integrity (including but not limited to direct habitat damage, burial of habitat, habitat erosion, reduction in biological diversity) or degradation of living marine organisms (including but not limited to abundance, individual growth, density, species diversity, species behavior).
- ii. Presumptive Exclusion for Ecological Resource Protection Standards: the assumption that the distribution and importance of ecological resources within an area would preclude the siting of a renewable energy facility based on the potential adverse effects of that project on those identified resources.
- iii. Important, Sensitive, or Unique (ISU) Area: The state has identified particularly important, sensitive and unique ecological resources (ISUs), with the intention of providing them the highest level of protection from the effects of renewable energy development while allowing existing beneficial uses. ISU areas include both the discrete locations of the ISU resources and bounding polygons (*i.e.* buffers) intended to provide adequate room for species foraging or other activities; protection from disturbance of the ISU resource; or both. Project developers shall consult with the Oregon Department of Fish and Wildlife (ODFW) and plan the project build-out consistent with ODFW recommended buffers prior to filing application materials with regulating agencies. Currently delineated ISU resources are located within RUCA. The identified ISU resources are known to be especially vulnerable to development impacts due to high concentration of the resource in a small area or the nature of the resource. The state may change the list of ISUs in the future (through addition or deletion of ISU from list or through updating the distribution of an ISU) as new data become available. Regulating agencies will apply the ISU standard where ISUs are discovered outside the RUCA. Currently, ISUs include:

- Rock habitat (including kelp beds, seagrass beds, subtidal reefs, and rocky intertidal);
 - Pinniped haulout areas;
 - Seabird nesting colonies; and
 - Estuary and river mouths (especially those that support salmon)
- iv. Each ISU area includes the discrete locations of the ISU resources plus bounding polygons (*i.e.* buffers) that are intended to provide adequate room for species foraging or other activities, or protection of the ISU resource from disturbance from a renewable energy facility while allowing existing beneficial uses. Project developers shall consult with ODFW to calculate the ISU area (*i.e.* determine protection buffers) prior to filing application materials with regulating agencies.
- For rock resources, regulating agencies will apply a buffer of 1000 feet (0.164 nautical miles) to account both for rock reef species foraging and disturbance from development.
 - For seabird nesting colonies and pinniped haulouts, regulating agencies will apply a buffer of between 1000 and 2000 feet (0.164-0.329 nautical miles) depending on the inhabitants (species, abundance, critical nature of the colony or haulout).
- v. Ecological Resources of Concern:
- Critical marine habitats (including but not limited to critical habitats as defined in the Endangered Species Act, and high-use areas),
 - Other important marine habitats,
 - Fish and shellfish stocks and other biologically important species (including but not limited to seabirds and mammals),
 - Recreationally or commercially important finfish or shellfish species,
 - Planktonic and benthic flora and fauna,
 - Other elements important to the marine ecosystem, including but not limited to:
 - ecosystem structure,
 - biological productivity,
 - species density,
 - biological diversity,
 - representative species assemblages, and,
 - Marine species migration routes.

(b) Area Designation Ecological Resources Protection Standards

The following standards apply to specific plan areas as delineated and described in the map located in Part Five, Appendix B.

- i. Resources and Uses Conservation Areas (RUCA) Standards:
Renewable energy facilities are presumptively excluded from ISU areas delineated within a RUCA.

- (a) If the regulating agency concurs, the applicant may overcome the presumptive exclusion by a demonstration that:
 - 1) there is no practicable alternative site outside an ISU area that is less environmentally damaging (when evaluating the project proposal, the regulating agencies shall not consider project cost as a factor when determining whether practicable alternatives exist), and;
 - 2) the project will have no reasonably foreseeable adverse effects on the ISUs located at the project site and off-site ISUs potentially affected by the project.
 - (b) Renewable energy facilities shall have no significant adverse effect on areas that provide intense foraging for several important species.
 - (c) Renewable energy facilities shall have no significant adverse effect on ecological resources of concern.
- ii. Resources and Uses Management Areas (RUMA) Standards:
- (a) Renewable energy facilities shall have no significant adverse effects on areas that provide intense foraging for several important species.
 - (b) Renewable energy facilities shall have no significant adverse effects on ecological resources of concern.
 - (c) The ISU standard, as applied within a RUCA, shall apply to ISU resources that are delineated within a RUMA.
- iii. Renewable Energy Facility Suitability Study Area (REFSSA) Standards: These areas have been identified as having the lowest potential for conflict between renewable energy facilities and ecological resources.
- (a) Ecological Resources of Concern: Renewable energy facilities shall have no significant adverse effects on ecological resources of concern.
 - (b) The ISU standard, as applied within a RUCA, shall apply to ISU resources that are delineated within a REFSSA.
- 4.) Recreational Resources Standards
- The state shall protect recreational resources as a beneficial use of the territorial sea. The standards for recreational resources shall be applied to all renewable energy facility projects throughout the territorial sea, unless otherwise provided by the plan. A determination of impact is based on the inventory of recreational uses contained in the map (Part Five, Appendix B).
- (a) Renewable energy projects may not have a significant adverse effect on areas of high or important use for recreational activities. A significant adverse effect occurs when:
 - i. Access is denied or unreasonably impeded;
 - ii. The project creates reasonably foreseeable health or safety impacts; or

iii. The project would have reasonably foreseeable significant impacts on the natural environment that the recreational community depends on.

- (b) Areas of high or important use for recreational activities occur where there is
- i. Community of historical users;
 - ii. High intensity of use; or
 - iii. Uniqueness or a special quality associated with the recreational use relative to the state or region.

5.) Visual Resource Protection Standards

The regulating agencies shall protect visual resources (*i.e.* viewsheds of the territorial sea) by applying the following visual resource protection standards to evaluate the potential impact of proposed renewable energy projects on the affected viewsheds. Most renewable energy projects will be subject to regulations for navigational safety that may require visual contrast with the environment. The standards below are based on an evaluation of visual contrast, which cannot be avoided or mitigated for the purposes of navigational safety.

The following standards rely on an overlay of delineated ocean viewsheds that has been incorporated into the map (Part Five, Appendix B). Regulating agencies will apply these standards to projects in all designated areas within the territorial sea.

(a) Classification of Viewsheds

The following classification system categorizes viewshed sites based on a set of objective criteria related to the unique setting, aesthetic qualities and physical properties of each site. Each viewshed class has a specific objective that determines the level of activity that would be compatible with maintaining the character of the viewshed. The class objectives and project review criteria are used to determine the impact a project has on each affected viewshed. A single project may impact multiple viewsheds, and will be subject to the associated visual subordination standard for each of them. The JART will provide the applicant with the list of affected viewsheds for which the applicant must conduct simulations to determine if the project meets the standards described for the affected viewshed class.

- i. Class I: The objective of this class is to preserve the existing character of the seascape. This class provides for natural ecological changes; however, it does not preclude very limited development activity. The level of change to the characteristic seascape must be very low and may not attract attention.
- ii. Class II: The objective of this class is to retain the existing character of the seascape. The level of change to the characteristic seascape must be low. Development activities may be seen, and may attract minimal attention, but may not dominate the view of the casual observer.

iii. Class III: The objective of this class is to partially retain the existing character of the seascape. The level of change to the characteristic seascape may be moderate. Development activities may be seen, and may attract attention but may not dominate the view of the casual observer.

iv. Class IV: The objective of this class is to provide for development activities which require major modifications of the existing character of the seascape. The level of change to the characteristic seascape can be high. These development activities may dominate the view and be the major focus of viewer attention. However, every attempt shall be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements.

(b) Project Review Criteria

In order to determine whether the proposed project meets the standards defined for each Class of viewshed, regulating agencies will consider the following contrast criteria for the visible portion of the proposed renewable energy facility for which the applicant has produced visual simulations for the affected viewsheds selected by the JART.

- i. Distance from viewpoint. The contrast created by a project usually is less as viewing distance increases.
- ii. Angle of Observation. The apparent size of a project is directly related to the angle between the viewer's line-of-sight and the slope upon which the project is to take place.
- iii. Length of Time the Project Is In View. If the viewer has only a brief glimpse of the project, the contrast may not be of great concern. If, however, the project is subject to view for a long period, as from an overlook, the contrast may be very significant.
- iv. Relative Size or Scale. Project contrast is directly related to project size and scale as compared to the surroundings in which it is located. This should include consideration of project size (*e.g.*, number of devices) along with size of the individual devices and associated structures along with layout and spacing. For example, minimizing horizontal spread of the layout may reduce contrast.
- v. Season of Use. Contrast ratings should consider the physical conditions that exist during the heaviest or most critical visitor use season.
- vi. Light Conditions. Light conditions can substantially affect the amount of contrast. The direction and angle of lighting can affect color intensity, reflection, shadow, form, texture, and many other visual aspects of the seascape. Light conditions during heavy use periods must be a consideration in contrast ratings.

- vii. Spatial Relationships. The spatial relationship within a seascape is a major factor in determining the degree of contrast. For example, projects in areas that are the “focus of key views” like a headland or large offshore rocks could have a higher contrast.
- viii. Atmospheric Conditions. The visibility of projects due to atmospheric conditions such as fog or natural haze should be considered.
- ix. Motion, lights and color. Movement and lighting draw attention to a project and vary depending on conditions and time of day and night. Surface treatment (*e.g.*, color) may increase or decrease visibility.
- x. Shore-based facilities. Associated shore-based facilities (*e.g.*, buildings, cables etc.) should also be considered in the visual impact analysis.

6.) Proprietary Use and Management Area (PUMA) Standards

A PUMA is an area wherein there are one or more authorized uses or special management designations, including but not limited to, navigation channel and pilotage safety corridors, and state or federal habitat management areas. Regulating agencies will not accept a renewable energy facility application in a PUMA unless the use is legally permissible and complies with the authorized use of the area. Applications for projects within a PUMA are subject to the resources and uses review standards that apply to the type of resources or uses area the PUMA is located in, as delineated by the Map Designations in Appendix B.

7.) Project Development Limitations and Constraints

The total amount of area within the territorial sea that is to be built or committed for renewable energy facilities is limited both on a statewide and regional basis.

- (a) The total area that is built and committed to marine renewable energy development, based on the area permitted and leased for that use, shall not exceed a maximum of two percent of the total area of the territorial sea.
- (b) The total area that is built and committed to marine renewable energy development, based on the area permitted and leased for that use, shall not exceed a maximum of one percent of the total area within a 60 nautical mile arc as measured from the mouths of the Columbia River estuary, the Newport estuary, and the Coos Bay estuary.
- (c) The total area designated as REFSSA in the plan shall not exceed five percent of the total area of the territorial sea.

C. Application Requirements

1. Pre-Application

The regulating agency shall require the applicant to participate in a pre-application conference before an application is submitted.

2. **Financial Capacity**

The regulating agency shall assure that an applicant has the financial capacity to complete the application process before resources are committed to review of the application.

3. **Application Fee**

The application must include all information required by applicable rules of the regulating agency, as well as any applicable fee for review of the application.

D. Operation Plan Development

The regulating agency shall require the applicant to submit an operation plan as a condition of approval for a state permit, license, lease or other authorization for renewable energy facility development. The operation plan must explain the procedures and mechanisms that the operator will employ so that the facility will comply with regulatory standards and other conditions of permit or license approval related to water and air quality, adverse environmental effects, maintenance and safety, operational failure and incident reporting. The operation plan shall be designed to prevent or mitigate harm or damage to the marine and coastal environment and at a minimum shall include the following information:

1. Phased Development Plan

A regulating agency may require that a facility be developed in phases in order to determine whether the environmental effects of the structures and the operation of the facility are consistent with the inventory and effects evaluation conducted under subsection B.4. The requirements for an operation plan listed in this section would apply to each stage of the phased development so as to account for any changes in design, technology or operation that may result from monitoring the initial phase of the operation. The JART, as discussed in subsection B.3 will assist the developer in assessing the environmental effects of the initial phase and in determining what, if any, changes in the development and operation of future phases of the facility might be necessary to mitigate or prevent harm or damage to the marine ecosystem.

A facility that has been developed to the full extent of its design and operating capacity may, during the lifetime of its authorization, require systematic improvements to the technology, structures and operational procedures that were originally authorized. The regulating agency shall require a new facility development plan, as appropriate and necessary, to provide the data and information for the redevelopment and operation of the new facility components.

2. Facility Development Plan

A plan is required that describes the physical and operational components of the proposed facility and must contain, at minimum, detailed technical information, data, protocols and references for:

- a. Structural and project design, materials used, anchoring and installation information;

- b. All cables and pipelines, including lines on project easements;
- c. A description of the deployment activities;
- d. A listing of chemical products used;
- e. A description of vessels, vehicles, aircraft and the transit lanes that will be used;
- f. A general description of the operating procedures and systems;
- g. Construction schedule; and
- h. Other information as required by the Department of State Lands.

3. Project Operation Plan

An operation plan is required that describes, at a minimum, information regarding the routine environmental monitoring, safety management and emergency response procedures, facility inspections, and the decommissioning of the project. The operation plan shall explain the procedures and mechanisms that will be employed so that the facility will comply with regulatory standards and other conditions of permit or license approval related to water and air quality, environmental protection and mitigation, facility maintenance and safety, operational failure and incident reporting. An operation plan shall include the following information:

a. Contingency Plan:

A plan to describe how the facility operator will respond to emergencies caused by a structural or equipment failure due to human error, weather, geologic or other natural event. The plan shall include a description of the types of equipment, vessels and personnel that would be deployed, the chain of command or management structure for managing the facility repairs, recovery or other forms of remedial action, and the process and timeline for notification of state and federal authorities.

b. Inspection Plan:

A plan to provide for the implementation of a routine inspection program to ensure the mechanical, structural and operational integrity of renewable energy facilities and other related structures, equipment or facilities. In addition, unscheduled inspections shall be required after any major geologic or meteorologic event to ensure continued operational safety and environmental protection.

c. Monitoring Plan:

A plan to provide for the implementation of a routine standardized monitoring program for potential impacts on specific resources as specified by the resource inventory and effects evaluation. The operator shall monitor activities related to the operation of the facility and demonstrate that its performance satisfies specified standards in its approved plans. Monitoring shall be sufficient to accurately document and quantify the short-term and long-term effects of the actions on the affected resources and uses. Plans for monitoring shall include, at a minimum:

- 1.) A list of the information needed to satisfy an effects evaluation.
- 2.) Specific study objectives to obtain the needed information and explanation of how the study design will meet the objectives.

- 3.) Description of study methods to meet the objectives, such as:
 - (a) Literature review;
 - (b) Collection of needed baseline data;
 - (c) Hypotheses to address the study objectives;
 - (d) Descriptions of field sampling and data-analyses methods to be used; and
 - (e) Use of adequate controls, such as control sites, to allow the effects of the proposed action to be separated from natural fluctuations in resources and habitats.
- 4.) The monitoring plan shall include supporting documentation demonstrating that the study design is scientifically appropriate and statistically adequate to address the research objectives.¹⁹
- 5.) The monitoring plan shall include a description of the method that will be used to report and deliver data and analyses information to the authorizing state agency for review in a timely and efficient manner.²⁰
- 6.) The monitoring plan will include a description of the process for periodic and ongoing public involvement and review of the monitoring work.

d. Adaptive Management Plan

An adaptive management plan to provide a mechanism for incorporating new findings and new technologies into the operation and management of the project. The adaptive management plan shall include performance standards that are based on results of the resource inventory and effects evaluation and incorporated in the study design of the monitoring plan as described in paragraph C.3.c (Monitoring Plan). The plan shall explain the processes for how adaptation measures are applied to the operation of the project. When the monitoring results show that the performance standards are not being met due to the operation of the facility, adaptation measures designed to bring the operation into compliance with the performance standard will be applied to the operation of the project. The adaptive management plan will explain processes for how adaptation measures will be applied to the operation and management of the project.

- 1.) Variable conditions in the marine environment;
- 2.) Change in the status of resources;
- 3.) New information provided by monitoring of the project;
- 4.) Data and information provided by research and from other sources;
- 5.) New technologies that would provide for greater protection of ocean resources;

¹⁹ Standardized monitoring protocols would result in data sets that are comparable and transferable among sites and technologies. The protocols would include a Before, After, Control, Impact (BACI) experimental study design.

²⁰ Example: the data and analysis will be applied to determine if conditions meet the standard established under the Oregon Department of Environmental Quality rule for “Biocriteria” at OAR 340-041-0011, which provides “Waters of the State must be of sufficient quality to support aquatic species without detrimental changes in the resident biological communities.”

- 6.) Ocean fisheries, or other ocean uses to be protected from adverse effects and operational conflicts; and
- 7.) Unanticipated cumulative effects.

4. Decommissioning Plan:

An applicant shall provide a plan to restore the natural characteristics of the site to the extent practicable by describing the facilities to be removed.²¹ The plan should include; a proposed decommissioning schedule; a description of removal and containment methods; description of site clearance activities; plans for transporting and recycling, reusing, or disposing of the removed facilities; a description of those resources, conditions, and activities that could be affected by or could affect the proposed decommissioning activities; results of any recent biological surveys conducted in the vicinity of the structure and recent observations of marine mammals at the structure site; mitigation measures to protect archaeological and sensitive biological features during removal activities; and a statement as to the methods that will be used to survey the area after removal to determine any effects on marine life. A decommissioning plan should identify how the project owner will restore the site to the natural condition that existed prior to the development of the site, to the extent practicable.

5. Financial Assurance Plan:

The applicant shall provide a financial assurance compliance plan that describes how the holder will comply with the state requirements for financial assurance. The plan must assure that the financial assurance provided by the holder will be sufficient to cover the estimated costs of: (1) removal and recovery of the facility or portions of the facility lost or damaged through an accident; (2) damages to vessels and equipment owned by third parties through an accident; and (3) decommissioning and removal of the facility upon the termination of its authorization(s). Holders of authorizations for renewable energy facilities or devices shall comply with applicable state financial assurance requirements, including but not limited to: ORS 274.867, and implementing administrative rules of the Department of State Lands, OAR chapter 141, division 140. In addition, the regulating agency shall

²¹ The requirement for a decommissioning plan is based upon DSL rules under OAR chapter 141, division 140. Under OAR 141-140-0080(5)(e), the holder of a temporary use authorization or lessee is required to:

“Remove ocean energy monitoring equipment, ocean energy facilities and any other material, substance or related or supporting structure from the authorized area as directed by the Department within a period of time to be established by the Department as a condition of the authorization. If the holder of the temporary use authorization or lessee fails or refuses to remove such equipment, facility or other material, substance or related or supporting structure, the Department may remove them or cause them to be removed, and the holder of the authorization or lessee shall be liable for all costs incurred by the State of Oregon for such removal.”

The decommissioning of the transmission cable is required under OAR 141-083-0850(6), which provides:

“If determined necessary by [DSL] in consultation with the easement holder and other interested parties, and if permitted by the applicable federal agency(ies) regulating the cable, the easement holder shall remove the cable from the state-owned submerged and submersible land within one (1) year following the termination of use of the cable or expiration of the easement.”

determine whether the holder will have the technical, organizational and financial capacity to construct, operate and decommission and remove the proposed facility.

6. Agreements:

Applicants shall communicate with traditional ocean users and stakeholders with an interest in the area of the proposed project to address issues of concern.²² Applicants are encouraged to memorialize agreements with those ocean users and stakeholders on specific actions, including conducting the adaptive management and monitoring plan, that the applicant is required to perform.

E. Pacific Marine Energy Center

The purpose of the Pacific Marine Energy Center (PMEC) North Energy Test Site is to conduct experimental marine renewable energy device testing. A primary function of the PMEC North Energy Test Site is to understand the environmental effects of various marine renewable energy devices, in addition to the amount of energy produced by the various technologies.

1. The Mobile Ocean Test Berth Site

The purpose of the PMEC Mobile Ocean Test Berth (MOTB) site at Newport is to conduct short-term experimental testing of marine renewable energy devices. This site will be used for short-term deployments of individual wave energy devices in conjunction with or independently of The Ocean Sentinel, a mobile ocean test berth. This site is not grid-connected.

2. Regulating Agency Authorizations for MOTB Site Use

An application for a permit, license, or other authorization for installation and operation at the PMEC MOTB site is not subject to the requirements of sections B or C.

An experimental or test device or other structure that seeks permission to use the PMEC MOTB site, shall obtain any applicable licenses, permits or Department of State Lands authorizations.

F. Plan Review

Territorial Sea Plan Part Five shall be subject to review by the Ocean Policy Advisory Council (OPAC) no longer than seven years after it has been adopted or when one percent

²² The Department of State Lands rule on Pre-Application Requirements, OAR 141-140-0040, provides:

“Before submitting an application to the Department, a person wanting to install, construct, operate, maintain or remove ocean energy monitoring equipment or an ocean energy conversion facility for a research project, demonstration project or commercial operation shall meet with:

“(a) Department staff to discuss the proposed project; and

“(b) Affected ocean users and other government agencies having jurisdiction in the Territorial Sea to discuss possible use conflicts, impacts on habitat, and other issues related to the proposed use of an authorized area for the installation, construction, operation, maintenance or removal of ocean energy monitoring equipment or an ocean energy facility.”

of the Territorial Sea has been permitted and the facilities developed for renewable energy facilities, whichever occurs first. 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).

Part Five Appendix A: Definitions and Terms

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

Adverse Effect for Ecological Resource Protection Standards: degradation in ecosystem function and integrity (including but not limited to direct habitat damage, burial of habitat, habitat erosion, reduction in biological diversity) or degradation of living marine organisms (including but not limited to abundance, individual growth, density, species diversity, species behavior).

Adverse Effect for Fisheries Use Protection Standards: a significant reduction in the access of commercial and recreational fishers to an area spatially delineated as an area important to a single fishing sector, multiple combined sectors, or to the fishing community of a particular port.

Applicant: An applicant for a state permit, license, lease or other authorization for renewable energy facilities development or other related structures, equipment or facilities will be referred to as “the applicant” or “project developer.”

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.

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..’ (Territorial Sea Plan Appendix A: Glossary of Terms)

Critical marine habitat: means one or more of the following land and water areas:

- a.) areas designated as “critical habitat” in accordance with federal laws governing threatened and endangered species; or
- b.) areas designated in the Territorial Sea Plan as either:
 - 1.) as needed for the survival of animal or plant species listed by state or federal laws as “threatened”, “endangered”, or “sensitive”. Such areas might include special areas used for feeding, mating, breeding/spawning, nurseries, parental foraging, overwintering, or haul

out or resting. This designation does not limit the application of federal law regarding threatened and endangered species; or
2.) “unique” (*i.e.* one of a kind in Oregon) habitat for scientific research or education within the territorial sea. (Territorial Sea Plan, Part Two)

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)

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”) (Territorial Sea Plan Appendix A: Glossary of Terms)

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).

Impact: is the severity, intensity, or duration of the effect, and can be either or both positive or negative outcomes.

Minimize: to reduce or avoid the effect to the extent practicable.

Mitigate: is the avoidance or minimization of a direct or indirect ecological effect or impact on a receptor through engineering or operational modification of the project. Mitigation does not refer herein to so-called “offsite” mitigation or to compensatory mitigation (*i.e.*, paying or compensating for environmental damage).

Phased development projects: Renewable energy facility developments which are limited in scale and area, but are designed to produce energy for commercial use.

Precautionary Approach: the application of a planning and regulatory decision making system that accounts for circumstances where information about marine resources and uses is limited, and there are increased levels of risk and uncertainty related to the outcome of the action. The principle of the precautionary approach is found in the Management Measures provided in Part One, section G. and in Goal 19 Ocean Resources.

Presumptive Exclusion for Ecological Resource Protection Standards: the assumption that the distribution and importance of ecological resources within an area would preclude the siting of a renewable marine energy facility based on the potential adverse effects of that development on those identified resources.

Presumptive Exclusion for Fisheries Use Protection Standards: the assumption that the distribution and importance of fisheries use within an area would preclude the siting a renewable marine energy facility based on the potential adverse effects of that development on those identified resources and uses.

Project: see “renewable energy facility or facilities” below.

Project Developer: see “applicant” above.

Regulating agency or regulating agencies: State agencies making decisions to authorize the siting, development and operation of renewable energy facilities or other related structures, equipment or facilities within the territorial sea.

Renewable Energy Facility or Facilities: The term “renewable energy facilities development or other related structures, equipment or facilities,” means energy conversion technologies and devices that convert the energy or natural properties of the water, waves, wind, current or thermal to electrical energy, including all associated buoys, anchors, energy collectors, cables, control and transmission lines and other equipment that are a necessary component of an energy conversion device research project, demonstration project or commercial operation. The terms “renewable energy facility” or “renewable energy facilities” are used to describe any and all components of these developments.

Seascape: the coastal landscape and adjoining areas of open water, including views from land to sea, from sea to land and along the coastline. A seascape has areas of sea, coastline and land.

Viewshed: the natural environment that is visible from one or more fixed viewpoints. For the purposes of Part Five, these are areas within the territorial sea as seen from viewpoints on shore.

Part Five Appendix B: Map Designations

The map information and data contained and referenced herein, designate areas within the territorial sea that are subject to section B.4., Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards. The maps delineate areas within the territorial sea based on the resources and uses present within them, and to which the review standards apply.

Territorial Sea Plan Resources and Uses Area Map Designations:

The area descriptions below apply to the map designations incorporated into Part Five, Appendix B.

Renewable Energy Permit Area (REPA): these areas are delineated sites for which there is an existing authorization for the development of renewable energy testing, research or facilities. Applications for renewable energy facilities within a REPA must comply with the terms and conditions required by the regulating agency authorization for the site. The total area of renewable energy facility sites authorized as REPA may not exceed two percent of the territorial sea (25.2 sq. miles or 19 sq. nautical miles). Based on the map designations in Appendix C, the REPA is 1 square mile (less than 1 sq. nautical miles) covering 0.08% of the territorial sea.

Renewable Energy Facility Suitability Study Area (REFSSA): an area wherein there may be ecological resources, or activities relating to commercial fishing sectors, recreational fishing, or individual ports. Renewable energy facilities may be sited within a REFSSA. Renewable energy facility development in these areas is anticipated to have the lowest potential adverse effects on inventoried marine resources and uses within state waters. A renewable energy facility proposal in a REFSSA must comply with Part Five, paragraphs B.4.a through f., and section C, and the applicable regulatory and proprietary requirements of state and federal agencies. The total area for REFSSA may not exceed five percent of the territorial sea (63 sq. miles or 47.5 sq. nautical miles). Based on the map designations in Appendix C, the REFSSA are 15 square miles (11 sq. nautical miles) covering 1% of the territorial sea.

Resources and Uses Management Area (RUMA): an area wherein there are important or significant ecological resources or areas that are economically important to commercial fishing sectors, recreational fishing, or individual ports. Renewable energy facilities may be sited within a RUMA. Under some circumstances there is a potential for renewable energy facility development to have significant adverse effects on inventoried marine resources and uses within these areas. A project proposal for MRE development in a RUMA must demonstrate that the project will have no significant adverse effects on inventoried marine resources and uses as determined by the standards for protecting those resources and uses in that area. Based on the map designations in Appendix C, the RUMA are 127 square miles (96 sq. nautical miles) covering 10% of the territorial sea.

Resources and Uses Conservation Area (RUCA): an areas wherein there are important, significant, or unique (ISU) ecological resources, or an area that is of significant economic importance to commercial fishing sectors, recreational fishing, or individual ports. A

renewable energy facility could be sited within a RUCA, though there is a high potential that most types of MRE development projects would have significant adverse effects on inventoried marine resources and uses within the area. A project proposal for MRE development in a RUCA must demonstrate that the project will have no reasonably foreseeable adverse effects on inventoried marine resources and uses as determined by the standards for protecting those resources and uses in that area. Based on the map designations in Appendix C, the RUCA are 909 square miles (686 sq. nautical miles) covering 72% of the territorial sea.

Renewable Energy Exclusion Area (REEA): special management areas. These areas contain permitted or managed uses that have some form of exclusive right or authority to exclude, restrict or control other uses in that area. Examples of these types of authorizations including: undersea fiber optic or scientific instrumentation; cable corridors; dredge material disposal sites, and marine reserves and marine protected areas. Regulating agencies will not accept Applications for MRE development within a REEA. Based on the map designations in Appendix C, the REEA are 170 square miles (128 sq. nautical miles) covering 14% of the territorial sea.

Proprietary Use and Management Area (PUMA): areas wherein there are authorized uses and special management designations. These areas are subject to some form of authority to restrict or control other uses. Examples of these types of authorizations include navigation channels and pilotage safety corridors. Regulating agencies will not accept renewable energy facility MRE applications in these areas unless the use is legally permissible and, complies with the authorized use of the area. Based on the map designations in Appendix C, the PUMA are 26 square miles (20 sq. nautical miles) covering 2% of the territorial sea.

Part Five Appendix C: Enforceable Policies Subject to Federal Consistency

This Appendix lists the provisions of Part Five that constitute the “enforceable policies” for Federal Consistency purposes, under the CZMA and pursuant to the Federal Consistency Regulations at 15 CFR Part 930. The federal Coastal Zone Management Act requires that certain federally permitted or licensed activities that affect coastal uses or resources must be conducted in a manner consistent with the enforceable policies of a state’s federally approved coastal management program. When reviewing federal decisions to permit or license renewable energy facilities for consistency with the OCMP the Department of Land Conservation and Development will apply the following sections of TSP Part Five as enforceable policies:

TSP Part Five Section B4. Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards

An applicant must provide the regulating agencies the data and information to complete the Resource and Use Inventory and Effects Evaluation and apply the Special Resource and Use Review Standards, prior to the regulating agencies making any decision.²³ State agencies will assist the applicant by providing readily available data and other information as applicable to the review process. An applicant may use relevant inventory information included in a project application to a federal agency to meet the requirements of this subsection.

a. Not included

b. Sufficiency of Resource and Use Inventory and Effects Evaluation

An applicant must provide information and data to complete the Resource and Use Inventory and Effects Evaluation and apply the Special Resource and Use Review Standards that is sufficient to identify and quantify the short-term and long-term effects of the proposed renewable energy facility development on the affected marine resources and uses.

c. Not included

d. Inventory Content

To evaluate the magnitude of the proposed project, the likelihood of project effects, and the significance of the resources and uses that the project may affect, regulating agencies shall require that the applicant include consideration of certain factors in the inventory. The Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards requirements apply to all renewable energy facility projects for which an applicant pursues a DSL proprietary authorization, unless the requirements are waived by DSL or otherwise addressed in another subsection of the plan. In addition to the resource inventory and effects evaluation content of this

²³ This is not “necessary data and information” for the purposes of 15 CFR § 930.58(a)(1)(ii).

paragraph, projects are also subject to the Special Resource and Use Review Standards specified in paragraph B.4.g.

- 1.) Information regarding the development, placement, operation, maintenance, and decommissioning of the project:
 - (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 hazardous materials, if any, to be used or produced;
 - (g) Navigation aids; and
 - (h) Proposed time schedule.
- 2.) Location and description of all affected areas, including, but not limited to:
 - (a) Site of the renewable energy facility;
 - (b) Adjacent areas that may be affected by physical changes in currents and waves caused by the project;
 - (c) Utility corridor transiting the territorial sea and ocean shore; and
 - (d) Shoreland facilities.
- 3.) Physical and chemical conditions including, but not limited to:
 - (a) Water depth;
 - (b) Wave regime;
 - (c) Current velocities;
 - (d) Dispersion, horizontal transport, and vertical mixing characteristics;
 - (e) Meteorological conditions; and
 - (f) Water quality.
- 4.) Bathymetry (bottom topography) and Shoreline Topography (LIDAR Light Detection and Ranging)
- 5.) Geologic structure, including, but not limited to:
 - (a) Geologic hazards, such as faults or landslides of both marine and shoreline facility areas;
 - (b) Mineral deposits;
 - (c) Seafloor substrate type; and
 - (d) Hydrocarbon resources.
- 6.) Biological features, including, but not limited to:
 - (a) Critical marine habitats (*see* Part Five, Appendix A);
 - (b) Other marine habitats;
 - (c) Fish and shellfish stocks and other biologically important species;
 - (d) Recreationally or commercially important finfish or shellfish species;
 - (e) Planktonic and benthic flora and fauna;
 - (f) Other elements important to the marine ecosystem; and

- (g) Marine species migration routes.
- 7.) Cultural, economic, and social uses affected by the renewable energy facility, 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;
 - (h) Waste water or other discharge;
 - (i) Utility or pipeline corridors and transmission lines;
 - (j) Military uses; and
 - (k) Aesthetic resources.
- 8.) Significant historical, cultural or archeological resources.
- 9.) Other data that the regulating agencies determine to be necessary and appropriate to evaluate the effects of the proposed project.

e. Written Evaluation.

Regulating agencies shall require the applicant to submit a written evaluation of all the reasonably foreseeable adverse effects associated with the development, placement, operation, and decommissioning of the proposed renewable energy facility. For purposes of the evaluation, the submittal shall base the determination of “reasonably foreseeable adverse effects” on scientific evidence. The information and data to comply with the Special Resources and Uses Standards is specified in paragraph B.4.g. The evaluation shall describe the potential short-term and long-term effects of the proposed renewable energy facility on marine resources and uses of the Oregon territorial sea, continental shelf, onshore areas and coastal communities based on the inventory data listed in paragraph B.4.d and the following considerations:

1.) Biological and Ecological Effects:

Biological and ecological effects include those on critical marine habitats and other habitats, and on the species those habitats support. The evaluation shall determine the probability of exposure and the magnitude of exposure and response, as well as the level of confidence (or uncertainty) in those determinations. The evaluation need not discuss highly speculative consequences. However, the evaluation shall discuss 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 operating procedures or accidents.

2.) Current Uses:

Evaluate the effects of the project on current uses and the continuation of a current use of ocean resources such as fishing, recreation, navigation, and port activities. Factors to consider include, but are not limited to:

- (a) Local and regional economies;
- (b) Archeological and historical resources; and
- (c) Transportation safety and navigation.

3.) Natural and Other Hazards

Evaluate the potential risk to the renewable energy facility, in terms of its vulnerability to certain hazards and the probability that those hazards may cause loss, dislodging, or drifting of structures, buoys, or facilities. Consider both the severity of the hazard and the level of exposure it poses to the renewable marine resources and coastal communities. Hazards to be considered shall include the scouring action of currents on the foundations and anchoring structures, slope failures and subsurface landslides, faulting, tsunamis, variable or irregular bottom topography, weather related, or due to human cause.

4.) Cumulative Effects

Evaluate the cumulative effects of a project, including the shoreland component, in conjunction with effects of any prior phases of the project, past projects, other current projects, and probable future projects.²⁴ The evaluation shall analyze the biological, ecological, physical, and socioeconomic effects of the renewable energy facility development and of other renewable energy facility 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.

- (a) In conducting the cumulative effects analysis, the applicant shall focus on the specific resources and uses, as detailed under paragraph B.4.d that may be affected by the incremental effects of the proposed project and other projects in the same geographic area. The evaluation shall include but not be limited to consideration of whether:

- i. the resource and uses are especially vulnerable to incremental effects;

²⁴ Under the National Environmental Policy Act (NEPA), “cumulative impacts” means “the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-federal) or person undertakes such actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.” 40 CFR. § 1508.7.

- ii. the proposed project 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.

B) The JART shall make recommendations as to the adequacy of the cumulative effects analysis that regulating agencies shall require of the applicant for phased development projects as described under subparagraph B.4.f.3 and subsection D.1. The JART will use the analysis to inform the location, scale, scope and technology of subsequent stages of the phased development project.

5.) Adaptive Management

Regulating agencies and the project developer shall use adaptive management and monitoring to evaluate the project at each subsequent phase; the intent of such evaluation is to inform the design, installation and operation of successive phases.

f. Pilot and Phased Development Projects

An applicant may not be able to obtain or provide the information required by subsection B.4 (Resource and Use Inventory and Effects Evaluation and Special Resource and Use Review Standards), due to the lack of data available about the effect that the proposed development may have on marine resources and uses. When JART recommends and DSL determines that the information provided by the applicant is not sufficient or complete enough to fulfill the requirements of subsection B.4, a regulating agency has the following options:

1.) Not included

2.) Pilot Project

The regulating agency may recommend that an applicant conduct a pilot project to obtain adequate information and data and measure the effects.²⁵ Pilot projects are renewable energy facility developments which are removable or able to be shut down quickly, are not located in sensitive areas, and are for the purpose of testing new technologies or locating appropriate sites.²⁶ A regulating agency may allow a

²⁵ Alternatively, DLCD may issue a CZMA “conditional concurrence” under 15 CFR § 930.4 and include a condition that in order to be consistent with the information requirements of the Territorial Sea Plan a project developer must first conduct a pilot project, or, if DLCD objects under the CZMA, may recommend a pilot project as an alternative to the proposed project.

²⁶ Pilot Project has the same meaning as “Demonstration Project” under the Department of State Lands rules governing the placement of ocean energy conversion devices on, in, or over state-owned land within the Territorial Sea. OAR 141-140-0020(7) defines “Demonstration Project” as “a limited duration, non-commercial activity

project developer to use a pilot project for the purpose of obtaining the data and information necessary to fulfill the requirements of subsection B.4., and shall be based on the following approval criteria:

- (a) The purpose of the pilot project is to provide information on the performance, structural integrity, design, and environmental effects of a specific renewable energy technology or its supporting equipment and structures.
- (b) The applicant shall complete adequate inventories of baseline conditions, as required by paragraph B.4.d (Inventory Content), prior to conducting the pilot project.
- (c) The risk of adverse effects from the pilot project shall be insignificant, because:
 - i. of low probability of exposure of biological communities and habitats;
 - ii. of low sensitivity of the biological communities and habitats to the exposure; or
 - iii. the effects of exposure to sensitive communities and habitats will be insignificant.
- (d) The pilot project shall not adversely affect any “important marine habitat” or “critical marine habitat” (*see* Part Five, Appendix A: Glossary of Terms).
- (e) The pilot project will have a term, not to exceed five years, and authorization for the project will include a standard condition requiring project alteration or shutdown in the event that an unacceptable level of environmental effect occurs.
- (f) The pilot project shall avoid significant or long-term interference with other human uses of marine resources, and will require decommissioning and site restoration at expiration of the authorization period if federal and state authorization for a commercial renewable energy facility is not sought and approved.
- (g) All data necessary to meet the requirements of subsection B.4, shall be in the public domain subject to ORS 192.410 *et seq.*
- (h) Work Plan: The applicant shall provide a written work plan which will include, but not be limited to the following:²⁷

authorized under a temporary use authorization granted by the Department to a person for the construction, installation, operation, or removal of an ocean energy facility on, in or over state-owned submerged and submersible land in the Territorial Sea to test the economic and/or technological viability of establishing a commercial operation. A demonstration project may be temporarily connected to the regional power grid for testing purposes without being a commercial operation.”

²⁷ Pilot projects that are authorized under the standards and conditions of this subparagraph f.2 are not required to fulfill the requirements of section C. The standards and requirements of section C will apply to an application for

- i. A list of the information needed to satisfy the requirements of subsection B.4.
- ii. Specific pilot project objectives to obtain the needed information and an explanation of how the study or test design will meet the objectives.
- iii. Description of study or test methods to meet the objectives, such as:
 - Literature review;
 - Collection of any needed baseline data;
 - Hypotheses to address the study objectives;
 - Descriptions of field sampling and data-analyses methods to be used; and
 - Use of adequate controls to allow the effects of the proposed action to be separated from natural fluctuations in resources and habitats.
- iv. Supporting documentation demonstrating that the study design is scientifically appropriate and statistically adequate to address the research objectives.
- v. Descriptions of how the project developer will report and deliver the data and analyses to the regulating agency for review and approval.

(i) A pilot project that provides the necessary and sufficient information may become a phased development.

3.) Phased Development

The regulating agency may recommend that an applicant conduct a project as a phased development in order to obtain adequate information and data and to measure the incremental effects of each phase prior to further or complete build-out of the project.²⁸ Phased development projects are renewable energy facility developments which are limited in scale and area, but are designed to produce energy for commercial use. The applicant for a phased development project shall comply with the requirements of subsection B.4. A regulating agency may allow the use of a phased development project to allow for commercial energy production while obtaining certain data and information necessary to fulfill the requirements of subsection B.4 that can only be obtained through the monitoring and study of the effects of the development as it is installed and operated for a discrete period of time.

g. Special Resources and Uses Review Standards

In addition to the resource and use inventory and effects evaluation requirements, special resource and use standards apply to specific areas within the territorial sea, based on the delineation and definition of those areas in Part Five, Appendix B Map

authorization to expand the pilot project from a short-term limited scope facility to a commercial operation scale facility.

²⁸ Alternatively, the Department of Land Conservation and Development may issue a CZMA “conditional concurrence” under 15 CFR § 930.4 and include a condition that in order to be consistent with the information requirements of the Territorial Sea Plan that a phased project must first be conducted, or, if the state objects under the CZMA, may recommend a phased project as an alternative to the proposed project.

Designations. The marine resources and uses addressed in this paragraph are not intended to represent the exclusive subject matter of regulatory agency review process. In applying the special resource and use review standards, the regulating agencies shall use the best available maps and data. A regulating agency may consider new information that it deems sufficient and applicable to the review. The regulating agency will apply each standard in determining the potential adverse effects of the proposed project based on best available science and professional judgment. When confronting significant uncertainty regarding the potential adverse effects of the proposed project, a regulating agency shall apply the precautionary approach in decision-making.

1.) The following siting and development requirements apply to the construction, deployment or maintenance of a renewable energy facility:

(a) Consider practicable alternative deployment and placement of structures in proximity to the proposed project area that would have less impact on identified resources and uses.

(b) Minimize construction and installation activities during critical time periods for the resources and uses as identified by appropriate regulatory agencies.

(c) Minimize disturbance to the identified resources and uses during construction and installation of the renewable energy facility and other structures.

2.) Fisheries Use Protection Standards

The regulating agencies shall protect areas important to fisheries using the following use protection standards to evaluate the impact an individual renewable energy facility would have on fisheries use.

(a) Definition of Terms

i. Adverse Effect for Fisheries Use Protection Standards: a significant reduction in the access of commercial and recreational fishers to an area spatially delineated as an area important to a single fishing sector, multiple combined sectors, or to the fishing community of a particular port.

ii. Presumptive Exclusion Fisheries Use Protection Standards: the assumption that the distribution and importance of fisheries use within an area would preclude siting a renewable energy facility based on the potential adverse effects of that development on those identified resources and uses. To overcome the presumptive exclusion, an applicant must demonstrate and the regulating agency must concur that the proposed project meets all applicable standards for protecting the fisheries use subject to potential adverse effects.

(b) General Fisheries Use Protection Standard

The following standards must be considered in determining the possible adverse effects a renewable energy facility might have on fisheries use, and are applicable to applications in all resource and use areas unless otherwise designated by the plan:

- i. Minimize the displacement of fishers from traditional fishing areas, and the related impact on the travel distance and routing required to fish in alternative areas;
- ii. Minimize the compaction of fishing effort caused by the reduction in the areas normally accessible to fishers;
- iii. Minimize the economic impact resulting from the reduction in area available for commercial and recreational fishing for the effected sectors and ports.
- iv. Mitigate possible hazards to navigation and, provide practicable opportunities for vessel transit, at the project location.
- v. Limit the number and size of projects that are located in an area to minimize the impact on a particular port or sector of the fishing industry. Consider the distribution of projects and their cumulative effects based on the criteria listed in (i) through (iv).

(c) Area Designation Fisheries Use Protection Standards

The following standards apply to specific plan areas as delineated and described in the map located in Part Five, Appendix B.

- i. Resources and Uses Conservation Areas (RUCA) Standards
The following standards apply to the protection of areas important to fisheries within Resources and Uses Conservation Areas. Renewable energy facilities within RUCA are presumptively excluded from areas important to fisheries. To overcome the presumptive exclusion, an applicant must demonstrate and the regulating agency must concur that the project will have no reasonably foreseeable adverse effect on areas important to fisheries and there is no practicable alternative site.
- ii. Resource and Use Management Areas (RUMA) Standards
The following standards apply to the protection of areas important to fisheries within Resources and Uses Management Areas. Renewable energy facilities within RUMA may locate within areas important to fisheries of high catch; high value fish in low abundance or low fishing effort; important on a seasonal basis, or; important to individual ports or particular fleet, if the applicant demonstrates and the regulating agency concurs that the project will have no significant adverse effect on areas important to fisheries.
- iii. Renewable Energy Facility Suitability Study Area (REFSSA) Standards
The following standards apply to the protection of areas important to fisheries within Renewable Energy Facility Suitability Study Areas. Renewable energy facilities may locate within REFSSA based on a

resource and use inventory evaluation of recreational and commercial fisheries, and the application of the standards listed under subparagraphs g.1 and g.2.b, if applicable.

3.) Ecological Resources Protection Standards

The state shall protect living marine organisms, the biological diversity of marine life, the functional integrity of the marine ecosystem, important marine habitat and associated biological communities by using the following ecological resource protection standards to evaluate marine renewable energy project proposals.

(a) Definition of Terms

- i. Adverse Effect for Ecological Resource Protection Standards: degradation in ecosystem function and integrity (including but not limited to direct habitat damage, burial of habitat, habitat erosion, reduction in biological diversity) or degradation of living marine organisms (including but not limited to abundance, individual growth, density, species diversity, species behavior).
- ii. Presumptive Exclusion for Ecological Resource Protection Standards: the assumption that the distribution and importance of ecological resources within an area would preclude the siting of a renewable energy facility based on the potential adverse effects of that project on those identified resources.
- iii. Important, Sensitive, or Unique (ISU) Area: The state has identified particularly important, sensitive and unique ecological resources (ISUs), with the intention of providing them the highest level of protection from the effects of renewable energy development while allowing existing beneficial uses. ISU areas include both the discrete locations of the ISU resources and bounding polygons (*i.e.* buffers) intended to provide adequate room for species foraging or other activities; protection from disturbance of the ISU resource; or both. Project developers shall consult with the Oregon Department of Fish and Wildlife (ODFW) and plan the project build-out consistent with ODFW recommended buffers prior to filing application materials with regulating agencies. Currently delineated ISU resources are located within RUCA. The identified ISU resources are known to be especially vulnerable to development impacts due to high concentration of the resource in a small area or the nature of the resource. The state may change the list of ISUs in the future (through addition or deletion of ISU from list or through updating the distribution of an ISU) as new data become available. Regulating agencies will apply the ISU standard where ISUs are discovered outside the RUCA. Currently, ISUs include:
 - Rock habitat (including kelp beds, seagrass beds, subtidal reefs, and rocky intertidal);
 - Pinniped haulout areas;
 - Seabird nesting colonies; and
 - Estuary and river mouths (especially those that support salmon)

iv. Each ISU area includes the discrete locations of the ISU resources plus bounding polygons (*i.e.* buffers) that are intended to provide adequate room for species foraging or other activities, or protection of the ISU resource from disturbance from a renewable energy facility while allowing existing beneficial uses. Project developers shall consult with ODFW to calculate the ISU area (*i.e.* determine protection buffers) prior to filing application materials with regulating agencies.

- For rock resources, regulating agencies will apply a buffer of 1000 feet (0.164 nautical miles) to account both for rock reef species foraging and disturbance from development.
- For seabird nesting colonies and pinniped haulouts, regulating agencies will apply a buffer of between 1000 and 2000 feet (0.164-0.329 nautical miles) depending on the inhabitants (species, abundance, critical nature of the colony or haulout).

v. Ecological Resources of Concern:

- Critical marine habitats (including but not limited to critical habitats as defined in the Endangered Species Act, and high-use areas),
- Other important marine habitats,
- Fish and shellfish stocks and other biologically important species (including but not limited to seabirds and mammals),
- Recreationally or commercially important finfish or shellfish species,
- Planktonic and benthic flora and fauna,
- Other elements important to the marine ecosystem, including but not limited to:
 - ecosystem structure,
 - biological productivity,
 - species density,
 - biological diversity,
 - representative species assemblages, and,
- Marine species migration routes.

(b) Area Designation Ecological Resources Protection Standards

The following standards apply to specific plan areas as delineated and described in the map located in Part Five, Appendix B.

i. Resources and Uses Conservation Areas (RUCA) Standards:

Renewable energy facilities are presumptively excluded from ISU areas delineated within a RUCA.

(a) If the regulating agency concurs, the applicant may overcome the presumptive exclusion by a demonstration that:

- 1) there is no practicable alternative site outside an ISU area that is less environmentally damaging (when evaluating the project proposal, the regulating agencies shall not consider

- project cost as a factor when determining whether practicable alternatives exist), and;
 - 2) the project will have no reasonably foreseeable adverse effects on the ISUs located at the project site and off-site ISUs potentially affected by the project.
- (b) Renewable energy facilities shall have no significant adverse effect on areas that provide intense foraging for several important species.
 - (c) Renewable energy facilities shall have no significant adverse effect on ecological resources of concern.
- ii. Resources and Uses Management Areas (RUMA) Standards:
 - (a) Renewable energy facilities shall have no significant adverse effects on areas that provide intense foraging for several important species.
 - (b) Renewable energy facilities shall have no significant adverse effects on ecological resources of concern.
 - (c) The ISU standard, as applied within a RUCA, shall apply to ISU resources that are delineated within a RUMA.
 - iii. Renewable Energy Facility Suitability Study Area (REFSSA) Standards:

These areas have been identified as having the lowest potential for conflict between renewable energy facilities and ecological resources.

 - (a) Ecological Resources of Concern: Renewable energy facilities shall have no significant adverse effects on ecological resources of concern.
 - (b) The ISU standard, as applied within a RUCA, shall apply to ISU resources that are delineated within a REFSSA.
- 4.) Recreational Resources Standards
- The state shall protect recreational resources as a beneficial use of the territorial sea. The standards for recreational resources shall be applied to all renewable energy facility projects throughout the territorial sea, unless otherwise provided by the plan. A determination of impact is based on the inventory of recreational uses contained in the map (Part Five, Appendix B).
- (a) Renewable energy projects may not have a significant adverse effect on areas of high or important use for recreational activities. A significant adverse effect occurs when:
 - i. Access is denied or unreasonably impeded;
 - ii. The project creates reasonably foreseeable health or safety impacts; or
 - iii. The project would have reasonably foreseeable significant impacts on the natural environment that the recreational community depends on.
 - (b) Areas of high or important use for recreational activities occur where there is
 - i. Community of historical users;

- ii. High intensity of use; or
- iii. Uniqueness or a special quality associated with the recreational use relative to the state or region.

5.) Visual Resource Protection Standards

The regulating agencies shall protect visual resources (*i.e.* viewsheds of the territorial sea) by applying the following visual resource protection standards to evaluate the potential impact of proposed renewable energy projects on the affected viewsheds. Most renewable energy projects will be subject to regulations for navigational safety that may require visual contrast with the environment. The standards below are based on an evaluation of visual contrast, which cannot be avoided or mitigated for the purposes of navigational safety.

The following standards rely on an overlay of delineated ocean viewsheds that has been incorporated into the map (Part Five, Appendix B). Regulating agencies will apply these standards to projects in all designated areas within the territorial sea.

(a) Classification of Viewsheds

The following classification system categorizes viewshed sites based on a set of objective criteria related to the unique setting, aesthetic qualities and physical properties of each site. Each viewshed class has a specific objective that determines the level of activity that would be compatible with maintaining the character of the viewshed. The class objectives and project review criteria are used to determine the impact a project has on each affected viewshed. A single project may impact multiple viewsheds, and will be subject to the associated visual subordination standard for each of them. The JART will provide the applicant with the list of affected viewsheds for which the applicant must conduct simulations to determine if the project meets the standards described for the affected viewshed class.

- i. Class I: The objective of this class is to preserve the existing character of the seascape. This class provides for natural ecological changes; however, it does not preclude very limited development activity. The level of change to the characteristic seascape must be very low and may not attract attention.
- ii. Class II: The objective of this class is to retain the existing character of the seascape. The level of change to the characteristic seascape must be low. Development activities may be seen, and may attract minimal attention, but may not dominate the view of the casual observer.
- iii. Class III: The objective of this class is to partially retain the existing character of the seascape. The level of change to the characteristic seascape may be moderate. Development activities may be seen, and may attract attention but may not dominate the view of the casual observer.

iv. Class IV: The objective of this class is to provide for development activities which require major modifications of the existing character of the seascape. The level of change to the characteristic seascape can be high. These development activities may dominate the view and be the major focus of viewer attention. However, every attempt shall be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements.

(b) Project Review Criteria

In order to determine whether the proposed project meets the standards defined for each Class of viewshed, regulating agencies will consider the following contrast criteria for the visible portion of the proposed renewable energy facility for which the applicant has produced visual simulations for the affected viewsheds selected by the JART.

- i. Distance from viewpoint. The contrast created by a project usually is less as viewing distance increases.
- ii. Angle of Observation. The apparent size of a project is directly related to the angle between the viewer's line-of-sight and the slope upon which the project is to take place.
- iii. Length of Time the Project Is In View. If the viewer has only a brief glimpse of the project, the contrast may not be of great concern. If, however, the project is subject to view for a long period, as from an overlook, the contrast may be very significant.
- iv. Relative Size or Scale. Project contrast is directly related to project size and scale as compared to the surroundings in which it is located. This should include consideration of project size (*e.g.*, number of devices) along with size of the individual devices and associated structures along with layout and spacing. For example, minimizing horizontal spread of the layout may reduce contrast.
- v. Season of Use. Contrast ratings should consider the physical conditions that exist during the heaviest or most critical visitor use season.
- vi. Light Conditions. Light conditions can substantially affect the amount of contrast. The direction and angle of lighting can affect color intensity, reflection, shadow, form, texture, and many other visual aspects of the seascape. Light conditions during heavy use periods must be a consideration in contrast ratings.
- vii. Spatial Relationships. The spatial relationship within a seascape is a major factor in determining the degree of contrast. For example, projects in areas that are the "focus of key views" like a headland or large offshore rocks could have a higher contrast.

- viii. Atmospheric Conditions. The visibility of projects due to atmospheric conditions such as fog or natural haze should be considered.
- ix. Motion, lights and color. Movement and lighting draw attention to a project and vary depending on conditions and time of day and night. Surface treatment (*e.g.*, color) may increase or decrease visibility.
- x. Shore-based facilities. Associated shore-based facilities (*e.g.*, buildings, cables etc.) should also be considered in the visual impact analysis.

6.) Not included.

7.) Not included.

TSP Part Five Section D. Operation Plan Development

The regulating agency shall require the applicant to submit an operation plan as a condition of approval for a state permit, license, lease or other authorization for renewable energy facility development. The operation plan must explain the procedures and mechanisms that the operator will employ so that the facility will comply with regulatory standards and other conditions of permit or license approval related to water and air quality, adverse environmental effects, maintenance and safety, operational failure and incident reporting. The operation plan shall be designed to prevent or mitigate harm or damage to the marine and coastal environment and at a minimum shall include the following information:

1. Phased Development Plan

A regulating agency may require that a facility be developed in phases in order to determine whether the environmental effects of the structures and the operation of the facility are consistent with the inventory and effects evaluation conducted under subsection B.4. The requirements for an operation plan listed in this section would apply to each stage of the phased development so as to account for any changes in design, technology or operation that may result from monitoring the initial phase of the operation. The JART, as discussed in subsection B.3 will assist the developer in assessing the environmental effects of the initial phase and in determining what, if any, changes in the development and operation of future phases of the facility might be necessary to mitigate or prevent harm or damage to the marine ecosystem.

A facility that has been developed to the full extent of its design and operating capacity may, during the lifetime of its authorization, require systematic improvements to the technology, structures and operational procedures that were originally authorized. The regulating agency shall require a new facility development plan, as appropriate and necessary, to provide the data and information for the redevelopment and operation of the new facility components.

2. Facility Development Plan

A plan is required that describes the physical and operational components of the proposed facility and must contain, at minimum, detailed technical information, data, protocols and references for:

- a. Structural and project design, materials used, anchoring and installation information;
- b. All cables and pipelines, including lines on project easements;
- c. A description of the deployment activities;
- d. A listing of chemical products used;
- e. A description of vessels, vehicles, aircraft and the transit lanes that will be used;
- f. A general description of the operating procedures and systems;
- g. Construction schedule; and
- h. Other information as required by the Department of State Lands.

3. Project Operation Plan

An operation plan is required that describes, at a minimum, information regarding the routine environmental monitoring, safety management and emergency response procedures, facility inspections, and the decommissioning of the project. The operation plan shall explain the procedures and mechanisms that will be employed so that the facility will comply with regulatory standards and other conditions of permit or license approval related to water and air quality, environmental protection and mitigation, facility maintenance and safety, operational failure and incident reporting. An operation plan shall include the following information:

a. Contingency Plan:

A plan to describe how the facility operator will respond to emergencies caused by a structural or equipment failure due to human error, weather, geologic or other natural event. The plan shall include a description of the types of equipment, vessels and personnel that would be deployed, the chain of command or management structure for managing the facility repairs, recovery or other forms of remedial action, and the process and timeline for notification of state and federal authorities.

b. Inspection Plan:

A plan to provide for the implementation of a routine inspection program to ensure the mechanical, structural and operational integrity of renewable energy facilities and other related structures, equipment or facilities. In addition, unscheduled inspections shall be required after any major geologic or meteorologic event to ensure continued operational safety and environmental protection.

c. Monitoring Plan:

A plan to provide for the implementation of a routine standardized monitoring program for potential impacts on specific resources as specified by the resource inventory and effects evaluation. The operator shall monitor activities related to the operation of the facility and demonstrate that its performance satisfies specified standards in its approved plans. Monitoring shall be sufficient to accurately document and quantify the short-term and long-term effects of the actions on the affected resources and uses. Plans for monitoring shall include, at a minimum:

- 1.) A list of the information needed to satisfy an effects evaluation.
- 2.) Specific study objectives to obtain the needed information and explanation of how the study design will meet the objectives.
- 3.) Description of study methods to meet the objectives, such as:
 - (a) Literature review;
 - (b) Collection of needed baseline data;
 - (c) Hypotheses to address the study objectives;
 - (d) Descriptions of field sampling and data-analyses methods to be used; and
 - (e) Use of adequate controls, such as control sites, to allow the effects of the proposed action to be separated from natural fluctuations in resources and habitats.
- 4.) The monitoring plan shall include supporting documentation demonstrating that the study design is scientifically appropriate and statistically adequate to address the research objectives.²⁹
- 5.) The monitoring plan shall include a description of the method that will be used to report and deliver data and analyses information to the authorizing state agency for review in a timely and efficient manner.³⁰
- 6.) The monitoring plan will include a description of the process for periodic and ongoing public involvement and review of the monitoring work.

d. Adaptive Management Plan

An adaptive management plan to provide a mechanism for incorporating new findings and new technologies into the operation and management of the project. The adaptive management plan shall include performance standards that are based on results of the resource inventory and effects evaluation and incorporated in the study design of the monitoring plan as described in paragraph C.3.c (Monitoring Plan). The plan shall explain the processes for how adaptation measures are applied to the operation of the project. When the monitoring results show that the performance standards are not being met due to the operation of the facility, adaptation measures designed to bring the operation into compliance with the performance standard will be applied to the operation of the project. The adaptive management plan will explain processes for how adaptation measures will be applied to the operation and management of the project.

²⁹ Standardized monitoring protocols would result in data sets that are comparable and transferable among sites and technologies. The protocols would include a Before, After, Control, Impact (BACI) experimental study design.

³⁰ Example: the data and analysis will be applied to determine if conditions meet the standard established under the Oregon Department of Environmental Quality rule for “Biocriteria” at OAR 340-041-0011, which provides “Waters of the State must be of sufficient quality to support aquatic species without detrimental changes in the resident biological communities.”

- 1.) Variable conditions in the marine environment;
- 2.) Change in the status of resources;
- 3.) New information provided by monitoring of the project;
- 4.) Data and information provided by research and from other sources;
- 5.) New technologies that would provide for greater protection of ocean resources;
- 6.) Ocean fisheries, or other ocean uses to be protected from adverse effects and operational conflicts; and
- 7.) Unanticipated cumulative effects.

4. Decommissioning Plan:

An applicant shall provide a plan to restore the natural characteristics of the site to the extent practicable by describing the facilities to be removed.³¹ The plan should include; a proposed decommissioning schedule; a description of removal and containment methods; description of site clearance activities; plans for transporting and recycling, reusing, or disposing of the removed facilities; a description of those resources, conditions, and activities that could be affected by or could affect the proposed decommissioning activities; results of any recent biological surveys conducted in the vicinity of the structure and recent observations of marine mammals at the structure site; mitigation measures to protect archaeological and sensitive biological features during removal activities; and a statement as to the methods that will be used to survey the area after removal to determine any effects on marine life. A decommissioning plan should identify how the project owner will restore the site to the natural condition that existed prior to the development of the site, to the extent practicable.

5. Financial Assurance Plan:

The applicant shall provide a financial assurance compliance plan that describes how the holder will comply with the state requirements for financial assurance. The plan must assure that the financial assurance provided by the holder will be sufficient to cover the estimated costs of: (1) removal and recovery of the facility or portions of the facility lost or damaged through an accident; (2) damages to vessels and equipment owned by third parties through an accident; and (3) decommissioning and removal of the facility upon the

³¹ The requirement for a decommissioning plan is based upon DSL rules under OAR chapter 141, division 140. Under OAR 141-140-0080(5)(e), the holder of a temporary use authorization or lessee is required to:

“Remove ocean energy monitoring equipment, ocean energy facilities and any other material, substance or related or supporting structure from the authorized area as directed by the Department within a period of time to be established by the Department as a condition of the authorization. If the holder of the temporary use authorization or lessee fails or refuses to remove such equipment, facility or other material, substance or related or supporting structure, the Department may remove them or cause them to be removed, and the holder of the authorization or lessee shall be liable for all costs incurred by the State of Oregon for such removal.”

The decommissioning of the transmission cable is required under OAR 141-083-0850(6), which provides:

“If determined necessary by [DSL] in consultation with the easement holder and other interested parties, and if permitted by the applicable federal agency(ies) regulating the cable, the easement holder shall remove the cable from the state-owned submerged and submersible land within one (1) year following the termination of use of the cable or expiration of the easement.”

termination of its authorization(s). Holders of authorizations for renewable energy facilities or devices shall comply with applicable state financial assurance requirements, including but not limited to: ORS 274.867, and implementing administrative rules of the Department of State Lands, OAR chapter 141, division 140. In addition, the regulating agency shall determine whether the holder will have the technical, organizational and financial capacity to construct, operate and decommission and remove the proposed facility.

6. Agreements:

Applicants shall communicate with traditional ocean users and stakeholders with an interest in the area of the proposed project to address issues of concern.³² Applicants are encouraged to memorialize agreements with those ocean users and stakeholders on specific actions, including conducting the adaptive management and monitoring plan, that the applicant is required to perform.

Appendix A. Definitions

All

Appendix B. Map Designations

All

³² The Department of State Lands rule on Pre-Application Requirements, OAR 141-140-0040, provides:

“Before submitting an application to the Department, a person wanting to install, construct, operate, maintain or remove ocean energy monitoring equipment or an ocean energy conversion facility for a research project, demonstration project or commercial operation shall meet with:

“(a) Department staff to discuss the proposed project; and

“(b) Affected ocean users and other government agencies having jurisdiction in the Territorial Sea to discuss possible use conflicts, impacts on habitat, and other issues related to the proposed use of an authorized area for the installation, construction, operation, maintenance or removal of ocean energy monitoring equipment or an ocean energy facility.”

Appendix D.

**National Oceanic and Atmospheric Administration Approval Letter Incorporating
Portions of the Oregon Territorial Sea Plan Part V as Enforceable Policies Pursuant
to Federal Consistency Review under the Coastal Zone Management Act**



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Office for Coastal Management
Silver Spring Metro Center, Building 4
1305 East-West Highway
Silver Spring, Maryland 20910

March 18, 2020

Ms. Patricia L. Snow, Manager
Oregon Coastal Management Program
Department of Land Conservation and Development
635 Capitol Street, Suite 150
Salem, Oregon 97301-2540

Dear Ms. Snow,

Thank you for the January 13, 2020, request for approval of the incorporation of *Part Five of the Oregon Territorial Sea Plan: Use of the Territorial Sea for the Development of Renewable Energy Facilities or Other Related Structures, Equipment or Facilities* into the Oregon Coastal Management Program pursuant to the National Oceanic and Atmospheric Administration (NOAA) Coastal Zone Management Act (CZMA) regulations at 15 CFR part 923, subpart H.¹

NOAA's Office for Coastal Management approves the request subject to the clarifications and qualifications below.

NOAA's regulations require that the state post this decision by the Office for Coastal Management for public notice.² The public notice should state that as of the date of this decision letter the enforceable policies identified in Part Five shall be applicable in reviewing federal actions pursuant to the federal consistency requirements of the CZMA and its implementing regulations found at 15 CFR part 930.³ Please send a copy of the public notice to the Office for Coastal Management for our records to close out this file.

PUBLIC AND FEDERAL AGENCY COMMENTS

The Office for Coastal Management did not receive any comments on this program change submission.

CHANGES APPROVED

See the enclosed list of the changes to the Oregon Coastal Management Program.

¹ This program change request was submitted under NOAA's revised CZMA program change regulations at 15 CFR part 923, subpart H (84 Federal Register (FR) 38118 (Aug. 6, 2019)). The Office for Coastal Management's decision due date was February 12, 2020, subject to extension. The Office for Coastal Management extended its review of this program change request to March 13, 2020.

² 15 CFR § 923.81(e)(5), as described at 84 FR 38133 (Aug. 6, 2019).

³ 15 CFR § 923.81(f), as described at 84 FR 38133 (Aug. 6, 2019).

CLARIFICATIONS AND QUALIFICATIONS

The Office for Coastal Management previously approved Part Five in 2014 (OR-2014-1) (NOAA 2014 decision letter). However, in 2018, a state court found that the adoption of Part Five by the state was invalid due to a procedural error.⁴ Following re-adoption of Part Five with revisions, the state has resubmitted Part Five for approval for incorporation in the federally-approved Oregon Coastal Management Program.

Part Five consists of four sections (A-D) and three Appendices (A-C). The state seeks to incorporate the entirety of Part Five into the Oregon CMP, and has identified Appendices A, B, and C as enforceable policies to be used for CZMA review purposes. The enforceable policy standards for CZMA federal consistency review are identified in Appendix C. These policies are supplemented by Appendix A (Definitions) and Appendix B (Map Designations) which do not provide standards for reviewing the consistency of activities but do provide additional information for determining the applicability of the standards within the enforceable policies of Appendix C.

As noted in the qualifications contained in the 2014 NOAA decision letter, Part Five does not provide the state with management authority over activities occurring in federal waters. Since the 2014 NOAA decision, the Office for Coastal Management approved a geographic location description (GLD) proposed by the state for certain federal license or permit activities occurring in federal waters subject to CZMA review (Office for Coastal Management, OR-2015-4). This GLD was unaffected by the invalidation of Part Five by the state court in 2018. The Office for Coastal Management's 2014 qualification still applies within the approved GLD. The state is authorized to review listed federal license or permit activities within the federal waters of the GLD for consistency with the applicable enforceable policies of the OR CMP but the state does not have authority to manage those activities.

Among the sections of Part Five listed as enforceable policies in Appendix C, the Oregon Coastal Management Program states in footnotes 26 and 29 that the Department of Land Conservation and Development may condition a CZMA concurrence upon the agreement by the applicant to develop a project in phases or first conduct a pilot project in order to gather data and information. The Office for Coastal Management does not approve the incorporation of these statements as part of the Oregon Coastal Management Program. States cannot use the CZMA review process to redefine projects. State CZMA federal consistency reviews are limited to the proposed action. A state may concur with or object to a project. A state may also propose a conditional concurrence that meets the requirements of 15 CFR § 930.4. State conditions that an applicant first conduct a pilot project, or that a project be done in phases do not meet the requirements of 15 CFR § 930.4 and are not allowed. These conditions would redefine the proposed federal action or would provide multiple opportunities for CZMA review when separate CZMA reviews would not be required.

Also, as noted in the in the NOAA 2014 decision letter, Part Five does not contain any "necessary data and information" requirements for the initiation of the CZMA federal consistency review process pursuant to 15 CFR § 930.58.

⁴ *Ciecko v. Department of Land Conservation and Development*, 290 Or App 655 (2018).

As a standard qualification applying to all program changes, states may not incorporate enforceable policies by reference. If an approved enforceable policy refers to another statute, regulation, policy, standard, guidance, or other such requirement or document, the referenced policy must be submitted to and approved by the Office for Coastal Management as an enforceable policy in order to be applied under the federal consistency review provisions of the CZMA. No referenced policy may be applied for CZMA federal consistency review purposes unless that policy has been separately reviewed and approved as an enforceable policy by the Office for Coastal Management.

Thank you for your cooperation in this review. Please contact Kris Wall at 541-776-4303 x262, if you have any questions. For future correspondence regarding these program changes, please refer to the file number assigned to this action, OR-2020-1.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joelle', followed by a long horizontal line extending to the right.

Joelle Gore, Chief
Stewardship Division

Enclosure(s): Table of Approved Changes OR-2020-1

TABLE OF APPROVED CHANGES TO THE OREGON COASTAL MANAGEMENT PROGRAM (OR-2020-1)

Please reference the Office for Coastal Management March 18, 2020 decision letter for clarifications and qualifications pertaining to this approval.

Legal citation	Title of policy, section, or other descriptor	Is the change new, revised, or deleted	Date effective in state	Enforceable policy for federal consistency purposes	Enforceable mechanism citation
Oregon Territorial Sea Plan: Part 5 Sections A-F, Appendices A-C	<p align="center">Uses of the Territorial Sea for the Development of Renewable Energy Facilities or Other Related Structures, Equipment or Facilities</p> <p>Section A – Renewable Energy Facility Development Section B – Implementation Requirements Section C – Application Requirements Section D – Operation Plan Development Section E – Pacific Marine Energy Center Section F – Plan Review Appendix A – Definitions & Terms Appendix B – Map Designations Appendix C - Enforceable Policies Subject to Federal Consistency</p>	New	10/17/2019	Part Five is being incorporated in its entirety with only specific provisions identified below as enforceable policies.	
Oregon Territorial Sea Plan: Part 5, Appendix A	Definitions	New	10/17/2019	Y	Definitions clarify and provide context for many of the sections containing enforceable policies. While this section does not implement any particular requirement or standard, it is necessary to interpret and apply the enforceable policies listed below.

TABLE OF APPROVED CHANGES TO THE OREGON COASTAL MANAGEMENT PROGRAM (OR-2020-1)

Legal citation	Title of policy, section, or other descriptor	Is the change new, revised, or deleted	Date effective in state	Enforceable policy for federal consistency purposes	Enforceable mechanism citation
<p>Oregon Territorial Sea Plan: Part 5, Appendix B</p>	<p>Map Designations</p>	<p>New</p>	<p>10/17/2019</p>	<p>Y</p>	<p>ORS 196.800 - ORS 196.990: Ocean Resources Planning and Wetlands</p> <p>OAR 141-082 – Rules Governing the Management of, and Issuing of Leases, Licenses and Registrations for Structures on, and Uses of State-Owned Submerged and Submersible Land</p> <p>OAR 141-083 Rules For Granting Easements for Fiber Optic and Other Cables on State-Owned Submerged and Submersible Land within the Territorial Sea</p> <p>OAR 141-085: Administrative Rules Governing the Issuance And Enforcement of Removal-Fill Authorizations Within Waters Of Oregon Including Wetlands</p> <p>OAR 141-125: Administrative Rules for Authorizing Special Uses on State-Owned Land</p> <p>OAR 141-140: Rules Governing the Placement of Ocean Energy Conversion Devices On, In or Over State-Owned Land within the Territorial Sea</p> <p>ORS 273 – State Lands Generally</p> <p>ORS 274 Submersible and Submerged Lands</p>

TABLE OF APPROVED CHANGES TO THE OREGON COASTAL MANAGEMENT PROGRAM (OR-2020-1)

<p align="center">Oregon Territorial Sea Plan: Part 5,</p>	<p>Enforceable Policies Subject to Federal Consistency</p> <p>Enforceable policies listed in this appendix are taken from portions of the following Part 5 Sections -</p> <p>B.4.b. Sufficiency of Resource and Use Inventory and Effects</p> <p>B.4.d. Inventory Content</p> <p>B.4.e. Written Evaluation</p> <p>B.4.f. Pilot and Phased Development</p> <p>B.4.f.2) Pilot Project</p> <p>B.4.f.3) Phased Development</p> <p>B.4.g. Special Resources and Use Review Standards</p> <p>General siting and development requirements</p> <p>Fisheries Use Protection Standards</p> <p>Ecological Resource Protection Standards</p> <p>Recreational Resource Standards B.4.g.5)</p> <p>Visual Resource Protection</p> <p>D.1 Phased Development Plan</p> <p>D.2 Facility Development Plan</p> <p>D.3 Project Operation Plan</p> <p>D.4 Decommissioning Plan</p> <p>D.5 Financial Assurance Plan</p> <p>D.6 Agreements</p>	<p align="center">New</p>	<p align="center">10/17/2019</p>	<p align="center">Y</p>	<p>ORS 196.800 - ORS 196.990: Ocean Resources Planning and Wetlands</p> <p>OAR 141-082 – Rules Governing the Management of, and Issuing of Leases, Licenses and Registrations for Structures on, and Uses of State-Owned Submerged and Submersible Land</p> <p>OAR 141-083 Rules For Granting Easements for Fiber Optic and Other Cables on State-Owned Submerged and Submersible Land within the Territorial Sea</p> <p>OAR 141-085: Administrative Rules Governing the Issuance And Enforcement of Removal-Fill Authorizations Within Waters Of Oregon Including Wetlands</p> <p>OAR 141-125: Administrative Rules for Authorizing Special Uses on State-Owned Land</p> <p>OAR 141-140: Rules Governing the Placement of Ocean Energy Conversion Devices On, In or Over State-Owned Land within the Territorial Sea</p> <p>ORS 273 – State Lands Generally</p> <p>ORS 274 Submersible and Submerged Lands</p>
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