Marine Spatial Planning in Oregon for Marine Renewable Energy Development

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What is Marine Spatial Planning?

Coastal and marine spatial planning (**CMSP**)—or marine planning—is a science-based tool that regions can use to address specific ocean management challenges and advance their goals for economic development and conservation.

Just as federal agencies work with states, tribes, local governments, and others to manage forests, grasslands, and other areas, they also can use marine planning to **coordinate activities** among all coastal and ocean interests and **provide the opportunity to share information**.

This process is designed to decrease user conflict, improve planning and regulatory efficiencies, decrease associated costs and delays, engage affected communities and stakeholders, and preserve critical ecosystem functions and services.

Put simply, marine planning is a process developed from the bottom up to improve collaboration and coordination among all coastal and ocean interests, and to better inform and guide decision-making that affects their economic, environmental, security, and social and cultural interests.

Oregon Coastal Management Program

One of the first in the country. Approved by NOAA in 1976 as a result of the Coastal Zone Management Act of 1972



Policies & Plans

Coastal Goals, Territorial Sea Plan, Estuary Planning, Hazard Planning, etc.

Federal Consistency Authority

al Allows application of state policies to federal activities using enforceable policies.

A network of state and local partners that help implement the Program. (11-8-32)

Networked

Program

Housed within the Department of Land Conservation and Development (DLCD)



State Ocean Planning Framework

Statewide Planning Goal 19 - Ocean Resources Mandates protection of important marine habitat; and

- areas important to fisheries.
- Oregon Ocean Resources Management Act (creates state-ocean governance structure)
- Oregon Territorial Sea Plan (contains specific policies for state ocean management)
- State Agency Authorities and Programs



Oregon's Territorial Sea Plan (TSP)

Originally Adopted in 1994

- Provides a coordinated framework for managing Oregon's ocean resources.
 - The Ocean Policy Advisory Council is the state's legislatively mandated advisory body charged with stewardship of the Territorial Sea Plan.
- Multiple parts (chapters)
 - Part 3 Rocky Shore Management
 - Part 4 Cable's across the territorial sea (2001)
 - Part 5 Marine Renewable Energy (2009, 2019)

The TSP relies on a network of state authorities & programs to implement TSP policies and recommendations.



Oregon Territorial Sea Plan Part One: Ocean Management Goals

The overall ocean management goal of the State of Oregon is to: Conserve the longterm values, benefits, and natural resources of the nearshore ocean and the continental shelf.

To achieve this goal, the State of Oregon will:

- 1. give higher priority to the protection of renewable marine resources than to the development of non-renewable ocean resources;
- 2. support development of ocean resources that is **environmentally sound and economically beneficial** to coastal communities and the state;
- 3. protect the diversity of marine life, the functions of the marine ecosystem, the diversity of marine and estuarine habitats, and the overall health of the marine environment; and
- 4. seek the conservation of ocean resources within the larger marine region that is of **ecologic and economic interest** to the State of Oregon.

Uncertainty is a challenge in Planning for Marine Renewable Energy

An example of the diversity of Marine Hydrokinetic Wave Energy Converter Types

Point Absorber



Oscillating Water Column



Attenuator



Oscillating Wave Surge Converter

Wave overtopping reservoir

Floating reservoir

structure

Reservoir



Overtopping Device

Water flow

Overtopping

ramp

Hydro turbine

The Territorial Sea Plan... A Plan for a Process.



Overview: Geospatial Analysis to derive Areas Protected by Goal 19



Spatial Planning Feedback Loop





TSP PART FIVE:

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

Part Five Chapter



Plan map & Area designations



Resources & uses Inventory



Part Five Plan Map - 2019



Area Designations

Renewable Energy Permit Area (REPA)
Renewable Energy Facility Suitability Study Area (REFSSA)
Resources and Uses Management Area (RUMA)
Resources and Uses Conservation Area (RUCA)
Proprietary Uses and Management Area (PUMA)
Renewable Energy Exclusion Area







TSP PART FIVE PLAN MAP AREAS

| Renewable Energy Exclusion Area (REEA) | Proprietary Use and Management Area (PUMA) | Resources and Uses Conservation Area (RUCA) | Resources and Uses Management Area (RUMA) | Renewable Energy Facility Suitability Study Area (REFSSA) | Renewable Energy Permit Area (REPA) |
|--|--|---|--|--|--|
| Special Management Areas designated by statute and OAR MRE applications will not be accepted within these areas | Areas with authorized uses and special management designations under Goal 19 MRE applications will not be accepted unless legally permissible, comply with the authorized use and area standards. | Areas with important, sensitive, or unique Goal 19 Resources and Uses MRE applications must demonstrate no reasonably foreseeable adverse effects on inventoried marine resources and uses.* | Areas with important or significant Goal 19 Resources and Uses MRE applications must demonstrate no significant adverse effects on inventoried marine resources and uses. | Areas of least conflict with Goal 19 Resources and Uses MRE applications must comply with TSP Part Five Sections B and C, general standards, and the applicable regulatory and proprietary requirements of state and federal agencies.* | Areas of existing MREC permits Delineated sites with existing authorization for the development of MRE testing, research or facilities. |
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Overarching Screening Standards: Visual Resource & Marine Recreation Overlays

Permit Review Standards

🗕 Lower 📗 A

Higher •

Marine Recreation Area Overlay

Standards applicable to the Oregon Territorial Sea

- A. Ocean renewable energy may not have a significant adverse effect on significant known recreational uses.
- B. A significant adverse effect occurs when:
 - I. Access is denied or unreasonably impeded.
 - II. The project creates reasonably foreseeable health or safety impacts.
 - III. The project would have reasonably foreseeable significant impacts on the natural environment that the recreational community depends on.

C. Significant recreational use occurs where there is a:

- Community of historical users;
- High intensity of use, or
- . Uniqueness or a special quality associated with the recreational use relative to the state or region.

Visual Resource Management Overlay



Visual Resource Management has 2 distinct phases:

- Planning phase: A baseline of visual quality is used to model viewshed quality, and that is applied to the standards for visual resource impacts.
 - The visual resource management framework covers the full extent of the Territorial Sea.
- Regulatory phase: project applicant will be required to conduct an evaluation of potential impacts to visual resources, or a Visual Impact Analysis (VIA).



On the Horizon for Oregon Marine Planning

Marine Hydrokinetic Energy Test Center



Oregon Outer Continental Shelf Intergovernmental Task Force for Marine Renewable Energy Planning



BOEM Bureau of Ocean Energy Management

https://www.boem.gov/renewable-energy/stateactivities/oregon-activities

OCMP

Questions?

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