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BOEM UPDATES

Hawaii Ocean Planning Workshop

Pacific Regional Ocean Uses Atlas

Environmental Studies Program

DOI-DoD MOU

Hawaii OCS Renewable Energy Task Force
Meeting 2
December 5, 2012
Honolulu, HI

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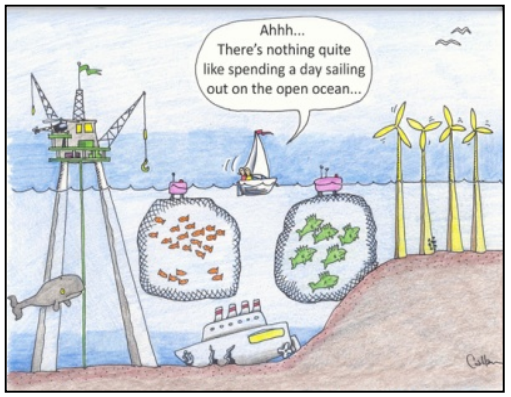
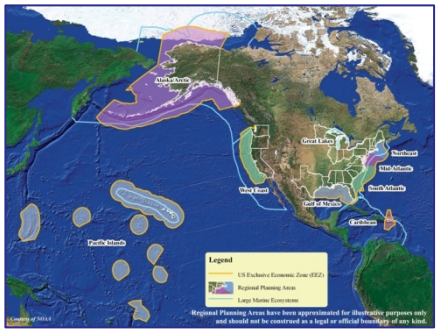
Hawaii Ocean Planning Workshop

National Ocean Policy – Executive Order 13547

Coastal and Marine Spatial Planning Priority Objective





Pacific Islands Regional Planning Body (PIRPB)

Workshop - *Science Foundations for Ocean Planning in Hawaii: Human Use and Habitat Characterization*
October 2-3, 2012, Honolulu HI

U.S. Department of the Interior
March 3, 1849

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Hawaii Ocean Planning Workshop

~100 attendees – scientists, agency managers and staff, academics, NGOs, ocean planning practitioners

Day 1: human uses
Day 2: biophysical data and technology platforms

Objectives achieved:

- Learned about past, existing, and planned projects and data availability
- Gained understanding of state and federal agency perspectives
- Identified key partners and groups for science and planning
- Began collaborating on ocean planning process implementation
- Began to identify next steps for Hawaii to consider
- Networked across agencies and organizations, strengthened relationships

Workshop summary will be distributed by NOAA in the near future

For more information:
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Pacific Islands Regional Planning Body Secretariat
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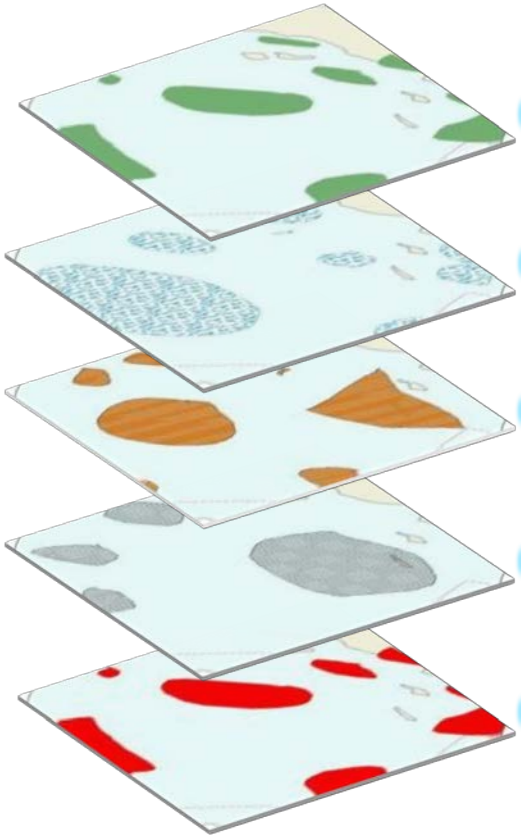
PURPOSE: To enhance ocean planning for offshore renewable energy development and inform other ocean planning strategies that require insight to ocean use activities

GOALS: To collect spatial data on the full range of human uses of the ocean through consultation with use experts, community stakeholders, and cultural use practitioners; to create data and analysis tools to assist in understanding use patterns, hotspots, conflicts and compatibilities

GEOGRAPHY: The OCS off the states of Washington and Oregon, and the OCS and state waters in Hawaii.



Military Use

Renewable Energy

Fishing Uses

Non-Consumptive Uses

Industrial Uses

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PARTICIPATORY GIS WORKSHOPS

- Workshop # and location TBD
- ~ 35-50 participants per day
- Unique blend of participants
- Each day targets specific sector
- 3-4 breakout groups per day
- All groups map all uses

- Lifeguards
- Park Managers
- Harbor Masters
- Local Fishermen
- Fish & Game Wardens
- Federal Agency Officials
- Charter Operators
- Law Enforcement Agents
- Marine Business Operators
- Local NGO Representatives
- Tribal Council Representatives
- Scientists & Researchers
- Military Representatives
- Naturalists and Docents

Hawaii Coastal Use Mapping Project (2010-11):

- Hawaii & Maui
- Hawaii DAR, TNC, NOAA-CRCP, PSC, PIRO, PIFSC
- Conservation Action Planning & Priority Site Assessment

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

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TARGET LIST OF USES

Industrial/Military Sector	Fishing Sector	Non-Consumptive
• Commercial Shipping (including Towing & Barging) • Designated Dumping and Outfall Sites • Mariculture • Military Operations & Ordnance Disposal • Mining and Mineral Extraction • Renewable Energy • Underwater Pipelines • Underwater Telecommunication & Power Cables	• Commercial Dive Fishing • Commercial Fishing with Benthic Mobile & Fixed Gear • Commercial Pelagic Fishing • Commercial Seaweed Harvest • Commercial Shore-Based Harvest • Indigenous Subsistence Fishing • Kayak Fishing • Recreational Dive Fishing • Recreational Fishing from Boats • Recreational Shore-Based Harvest	• Indigenous Cultural Use • Motorized Boating • Paddling • Sailing • SCUBA/Snorkeling • Shore Use • Surface Board Sports • Swimming • Tide Pooling • Tourism Cruise Ships • Wildlife Viewing at Sea





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TIMELINE

	2012		2013			2014		
	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
WA			Early Spring Workshops					
OR			Late Spring Workshops					
HI						Workshops		

For more information:
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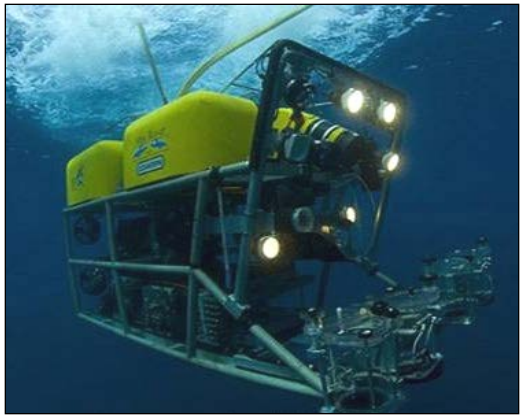
Pacific Region Environmental Studies



- 1973 – 2013
- 306 studies completed at nearly $ 141.5 M
- 26 on-going studies FY 2012 ~ $ 13.2 M
  - 18 related to renewable energy ~ $ 10.3 M
- 6 additional studies for FY 2013 ~ $ 3.4 M
  - 5 renewable energy studies ~ $ 2.9 M
    - 3 informative to Hawaii ~ $ 2.3 M

http://www.boem.gov/Environmental-Stewardship/Environmental-Studies/Pacific-Region/Studies/Current-Environmental-Studies.aspx

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Pacific Region Environmental Studies

Pacific Region 2013 Studies Informative to Hawaii

Inventory and Analysis of Coastal and Submerged Archaeological Site Occurrence near the Main Hawaiian Islands

Habitat Affinities and At-Sea Ranging Behaviors among Main Hawaiian Island Seabirds

A Marine Biogeographic Assessment of the Main Hawaiian Islands

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Pacific Region 2013 Studies Informative to Hawaii

Inventory and Analysis of Coastal and Submerged Archaeological Site Occurrence near the Main Hawaiian Islands

Objectives:

- Accumulate information on submerged and terrestrial cultural and archaeological sites and site types
- Develop a geo-referenced database of known, reported and potential historic shipwrecks on the Pacific OCS off the main Hawaiian Islands
- Identify and develop a database of coastal historic properties that could be adversely impacted by the alteration of the view of the ocean

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Pacific Region 2013 Studies Informative to Hawaii

Habitat Affinities and At-Sea Ranging Behaviors among Main Hawaiian Island Seabirds

Objectives:

- Increase BOEM's understanding of at-sea habitat utilization and ranging behaviors for seabirds breeding within the MHI
- Conduct field studies of at-sea habitat utilization and ranging behaviors for seabirds breeding within the MHI
- Compile and analyze remotely sensed and modeled habitat data to examine habitat relationships to predict species' distributions and improve spatial vulnerability maps

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Pacific Region 2013 Studies Informative to Hawaii

A Marine Biogeographic Assessment of the Main Hawaiian Islands

Objectives:

- Determine the spatial and temporal distribution of trophic groups, families and species offshore the MHI
- Identify the location of ecologically unique and productive habitats offshore the MHI
- Determine how ecologically important areas are being utilized by living marine resources
- Identify where offshore renewable energy projects might be located to maximize energy production and minimize potential impacts to the marine environment

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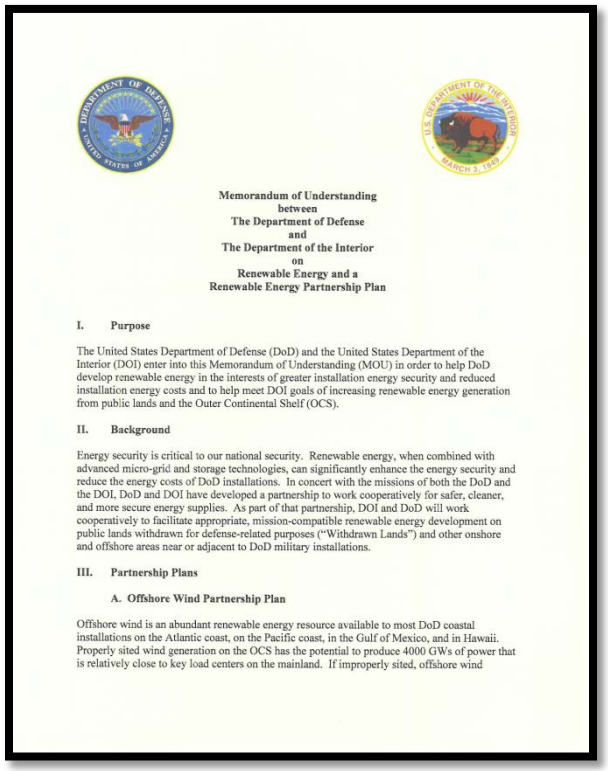
DOI/DoD MOU on Renewable Energy and Renewable Energy Partnership Plan

I. Purpose

The United States Department of Defense (DoD) and the United States Department of the Interior (DOI) enter into this Memorandum of Understanding (MOU) in order to help DoD develop renewable energy in the interests of greater installation energy security and reduced installation energy costs and to help meet DOI goals of increasing renewable energy generation from public lands and the Outer Continental Shelf (OCS).



Memorandum of Understanding
between
The Department of Defense
and
The Department of the Interior
on
Renewable Energy and a
Renewable Energy Partnership Plan

I. Purpose

The United States Department of Defense (DoD) and the United States Department of the Interior (DOI) enter into this Memorandum of Understanding (MOU) in order to help DoD develop renewable energy in the interests of greater installation energy security and reduced installation energy costs and to help meet DOI goals of increasing renewable energy generation from public lands and the Outer Continental Shelf (OCS).

II. Background

Energy security is critical to our national security. Renewable energy, when combined with advanced micro-grid and storage technologies, can significantly enhance the energy security and reduce the energy costs of DoD installations. In concert with the missions of both the DoD and the DOI, DoD and DOI have developed a partnership to work cooperatively for safer, cleaner, and more secure energy supplies. As part of that partnership, DOI and DoD will work cooperatively to facilitate appropriate, mission-compatible renewable energy development on public lands withdrawn for defense-related purposes ("Withdrawn Lands") and other onshore and offshore areas near or adjacent to DoD military installations.

III. Partnership Plans

A. Offshore Wind Partnership Plan

Offshore wind is an abundant renewable energy resource available to most DoD coastal installations on the Atlantic coast, on the Pacific coast, in the Gulf of Mexico, and in Hawaii. Properly sited wind generation on the OCS has the potential to produce 4000 GWs of power that is relatively close to key load centers on the mainland. If improperly sited, offshore wind

Offshore Wind Partnership Plan

- DoD could provide a landing site for generation transmitted from an OCS REn facility
- Potential military offtake contracts
- Work together to identify areas most appropriate for offshore wind development
- Investigate existing contract and management authorities to achieve mutual goals and identify required changes in existing authorities as necessary

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