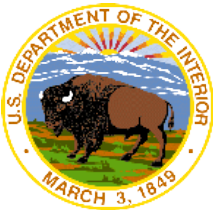


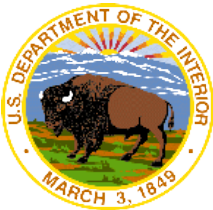
# Pacific Renewable Energy Activities

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***OCEAN RENEWABLE ENERGY CONFERENCE  
SEPTEMBER 18, 2018***

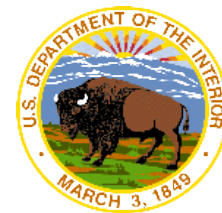


- **Bureau within the Department of the Interior (DOI)**
  - Oversees development of nation's energy and mineral resources on the Outer Continental Shelf (OCS)
  - Renewable energy (leases, easements, rights-of-way) authority under OCS Lands Act of 1953 as amended, including amendments per Energy Policy Act of 2005
- **OCS jurisdictional boundary in the Pacific Region is 3-200 nautical miles from coastline**
- **BOEM has no jurisdiction within:**
  - National Park System
  - National Wildlife Refuge System
  - National Marine Sanctuary
  - National Monument



# Pacific OCS Region Renewable Energy

- Offshore Wind (OSW)
- Marine and Hydrokinetic (MHK)



# Offshore Renewable Energy Leasing Process

*We are in the initial phase of the process*

## Planning & Analysis

- **Intergovernmental Task Force**
- Call for Information & Nominations (Call)
- Area Identification
- Environmental reviews

## Leasing

- Publish leasing notices
  - Proposed
  - Final
- Issue lease(s)

## Site Assessment

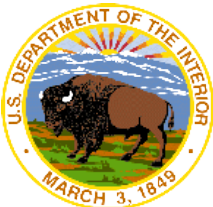
- Site Characterization
- Site Assessment Plan (SAP) developed by Lessee

## Construction & Operations

- Construction and Operations Plan (COP) reviewed under NEPA
- Facility Design Report & Fabrication and Installation Report
- Decommissioning

*Public Input Opportunities Throughout the Process including  
Public Meetings and Federal Register notices providing for Public Comment Periods  
And opportunity for Tribal consultation throughout*

**Multi Year Process**



## **BOEM California Intergovernmental Renewable Energy Task Force:**

- Formed at the request of the Governor;
- A forum to discuss stakeholder concerns, exchange data and information;
- Membership consists of state and federal agencies, local, and tribal governments

**Stakeholder Outreach Plan** created in collaboration with State of California

**Offshore Wind Energy Gateway** on Data Basin website – transparent, publicly accessible information

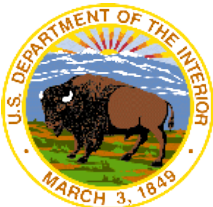
**Tribal Outreach** to federally and non-federally recognized tribes

**Large outreach effort** (75+ meetings over 18 months) in partnership with State of California

**Interim Report published;** available online at:  
<https://www.boem.gov/California-Outreach-Summary-Report>

*Currently being updated*

**Call for Information & Nominations (Call)**



# California Planning Activities

2016

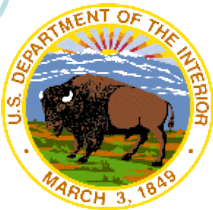
- May: Governor Brown requested DOI establish the BOEM California Intergovernmental Renewable Energy Task Force
- October: Initial BOEM California Intergovernmental Renewable Energy Task Force Meeting

2017

- About 60+Stakeholder Outreach and Informational Meetings (fishers, NGOs, local ports, Harbor Safety Committees, USCG District 11, coastal communities, local elected officials, academia)
- Tribal Outreach and Informational meetings (Federal and non-federally recognized tribes)
- Data Collection and Review (data from USCG, NMFS/NOAA, CDFW, others)
- California Offshore Wind Energy Gateway on Data Basin website
- Publication of Interim Outreach Summary Report
- Department of Navy/Defense Mission Compatibility Assessment

2018

- February 15: DoD Mission Compatibility Discussion
- March 12: Energy Commission Webinar on Potential for Offshore Renewable Energy
- April 17-19: North Coast Outreach Meetings
- July 17-18: Additional North Coast Outreach Meetings and data review
- August 2: North Coast data discussion in Eureka, California
- August 30: DoD Mission Compatibility Follow-Up Discussion
- July-Sept: Webinar updates for Tribes, Federal agencies, state agencies
- September 17: Task Force Meeting on Draft Call Areas

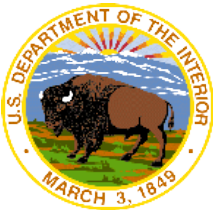




# What is the Call?

## Planning & Analysis

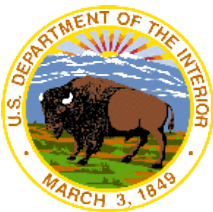
- Notice published in the *Federal Register* for formal public comment
  - Requests information on focused areas for BOEM to consider in the planning, analysis and decision making process
  - Requests nominations of interest for leasing from project developers
  - Not a decision to lease
- Intergovernmental Task Force
  - **Call for Information & Nominations (Call)**
  - Area Identification
  - Environmental reviews



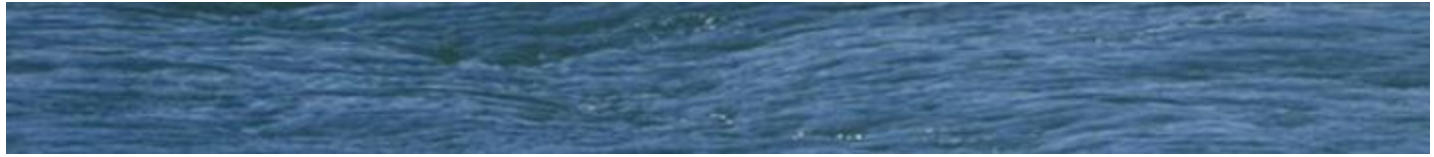
## What is the next step after a Call?

### Planning & Analysis

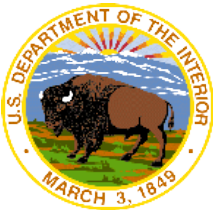
- BOEM considers comments received during the Call and any nominations of interest
  - BOEM may identify Wind Energy Area(s) (WEA) for environmental review: Area Identification (Area ID) Phase
  - May include all or portions of the Call Areas
  - WEAs would be analyzed under NEPA in an environmental analysis document
- Intergovernmental
    - Task Force
  - Call for Information & Nominations (Call)
  - **Area Identification**
  - Environmental reviews





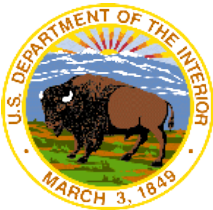
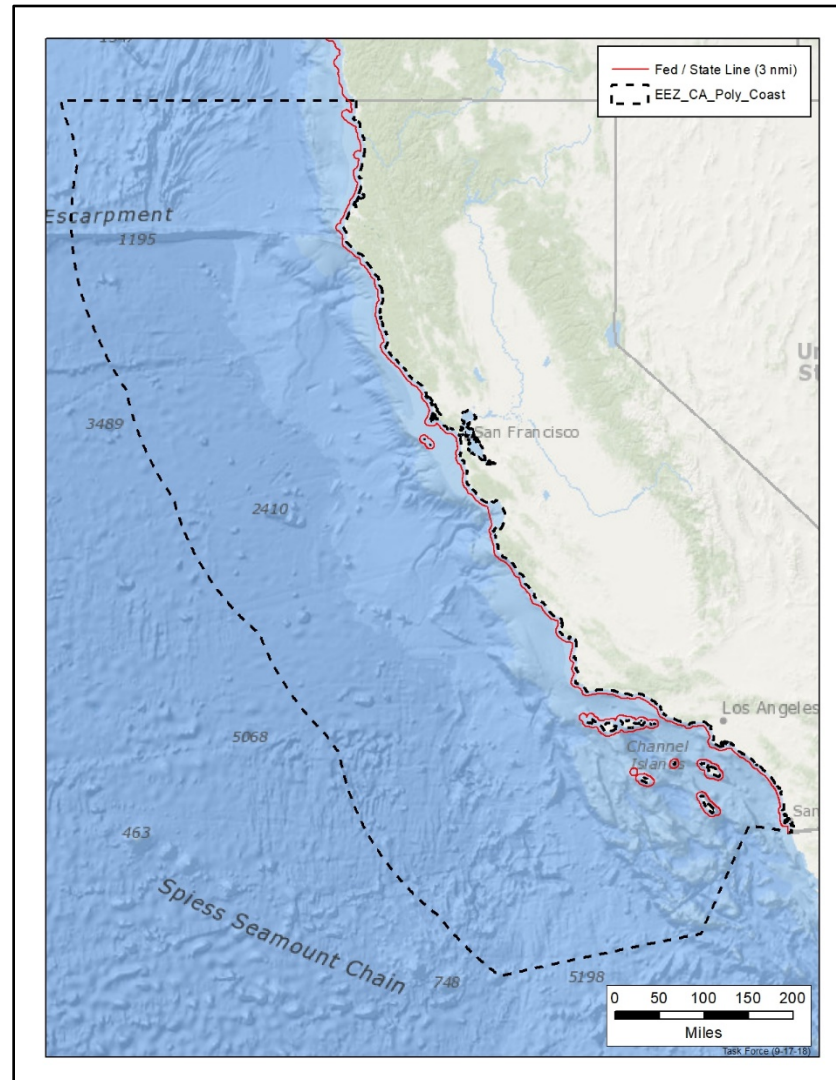


# **California Draft Call Areas for: Call for Information & Nominations**



# Federal Waters

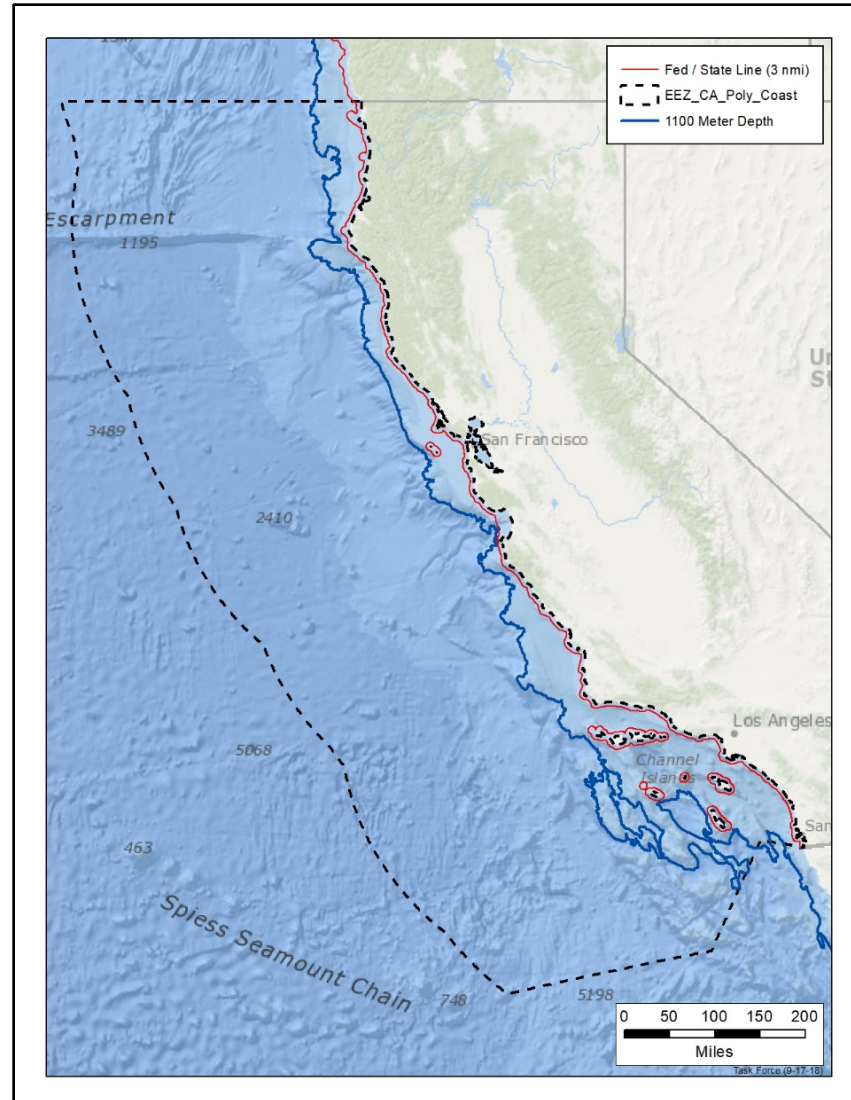
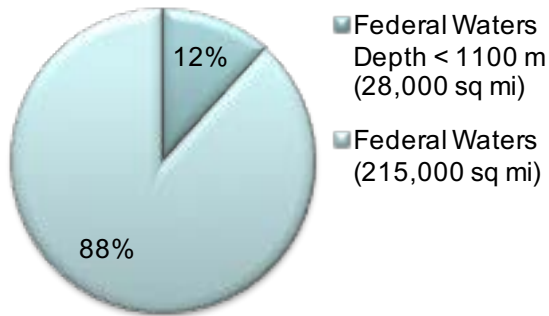
- Federal Waters  
3 nmi – 200 nmi
- Offshore California =  
215,000 sq miles



# Depth Considerations

- Less than 1100 m
- 28,000 sq miles (12%)

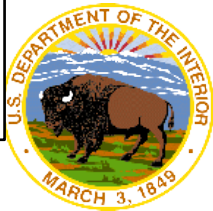
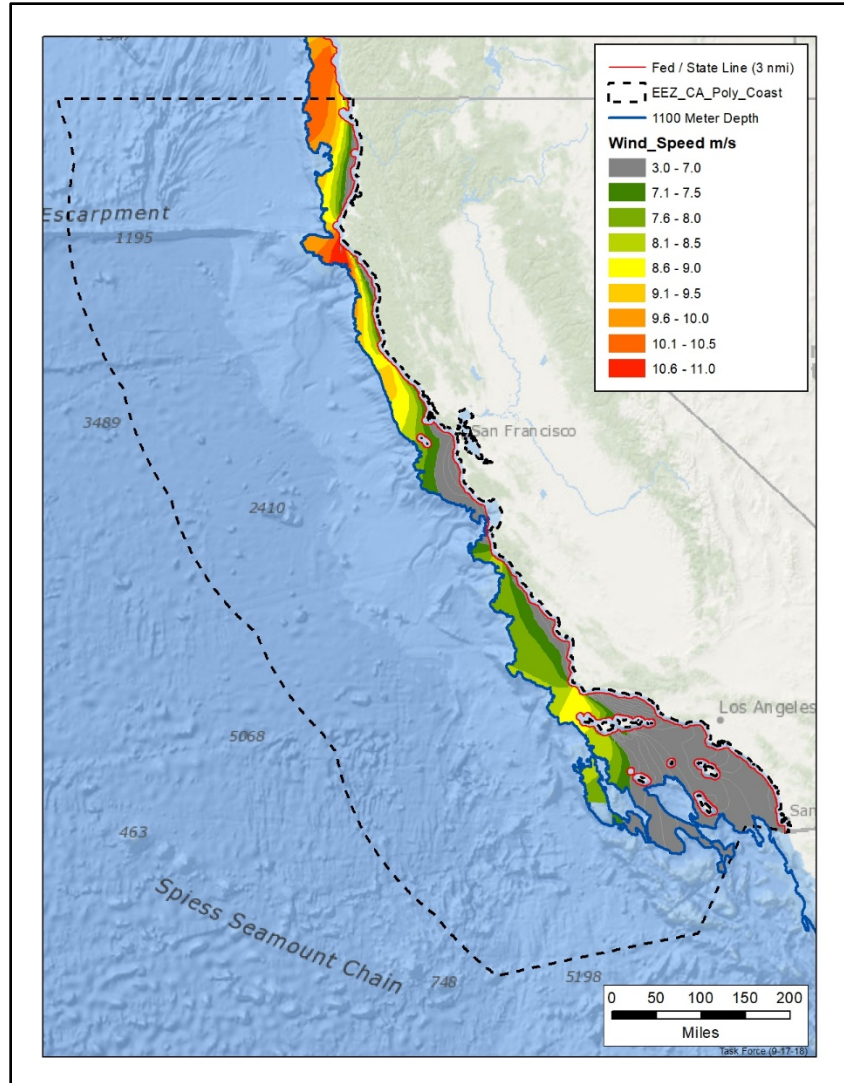
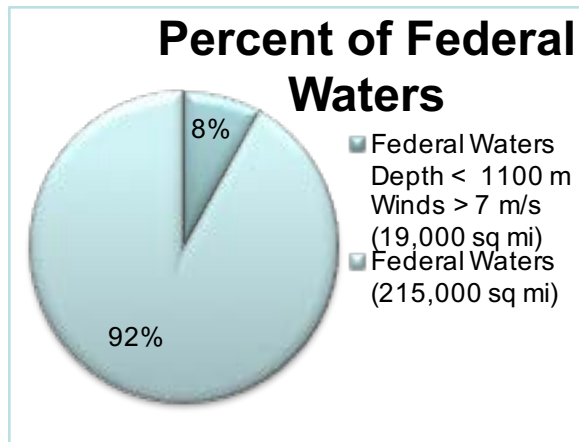
**Percent of Federal Waters**





# Wind Considerations

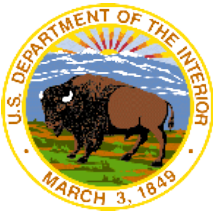
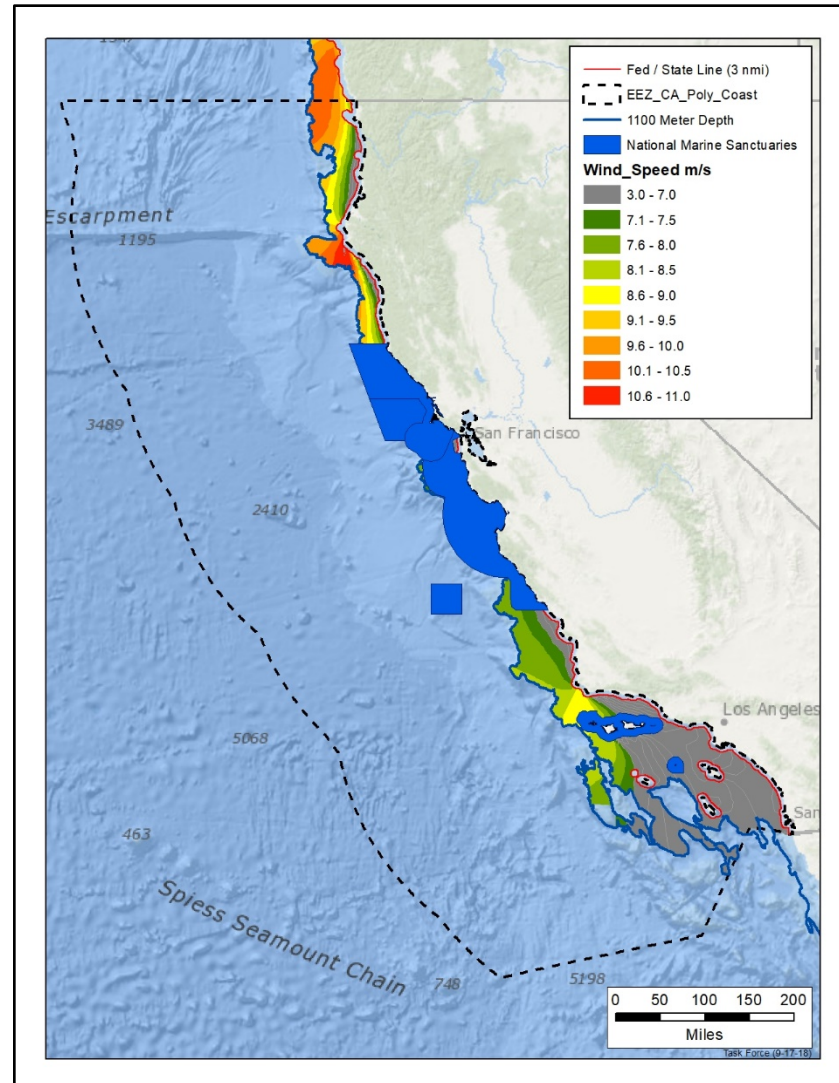
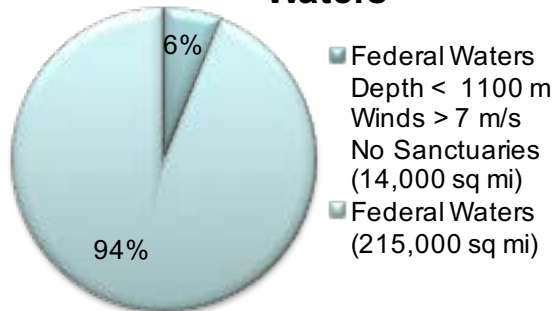
- Greater than 7 m/s
- 19,000 sq miles (8%)



# Exclude National Marine Sanctuaries

- National Marine Sanctuaries
  - 14,000 sq miles (6%)

**Percent of Federal Waters**



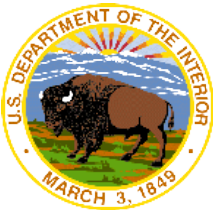


# Central Coast Draft Call Areas

Morro Bay North

Morro Bay

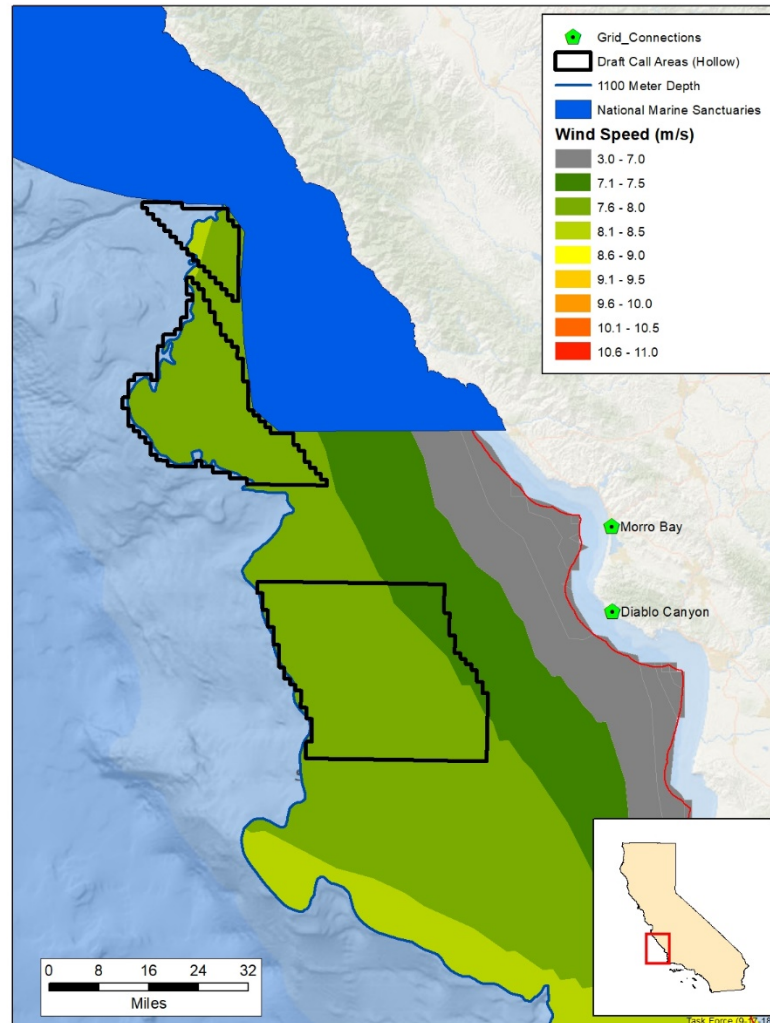
Diablo Canyon



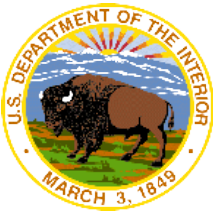
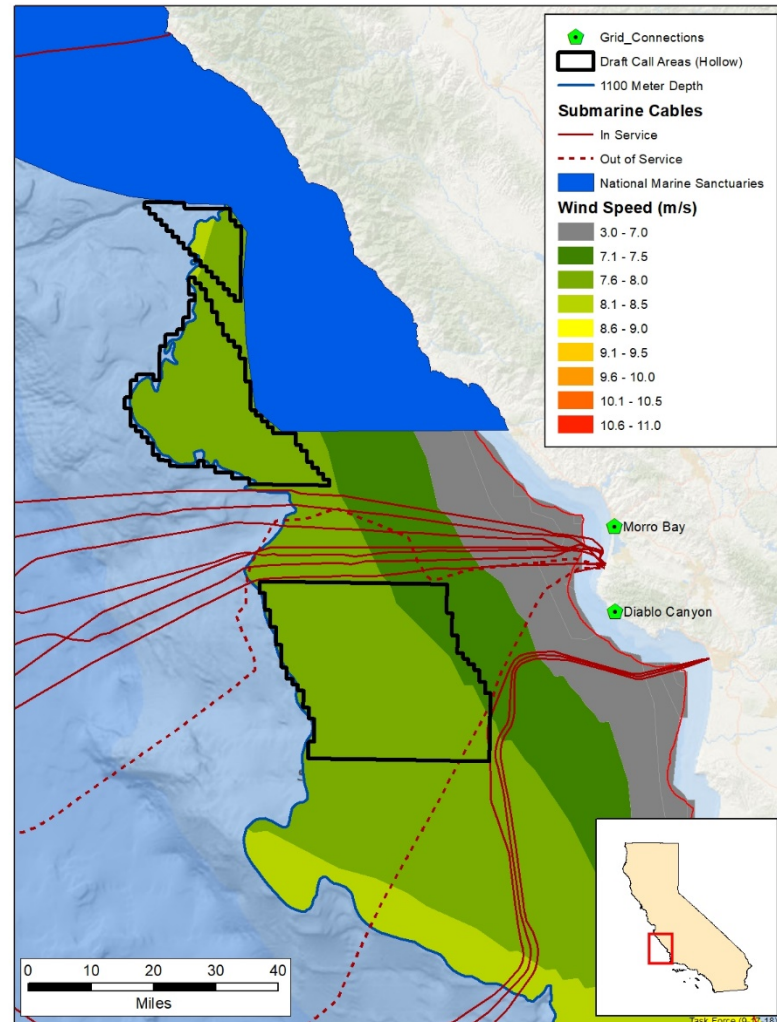


# Central Coast Draft Call Areas & Grid Connections

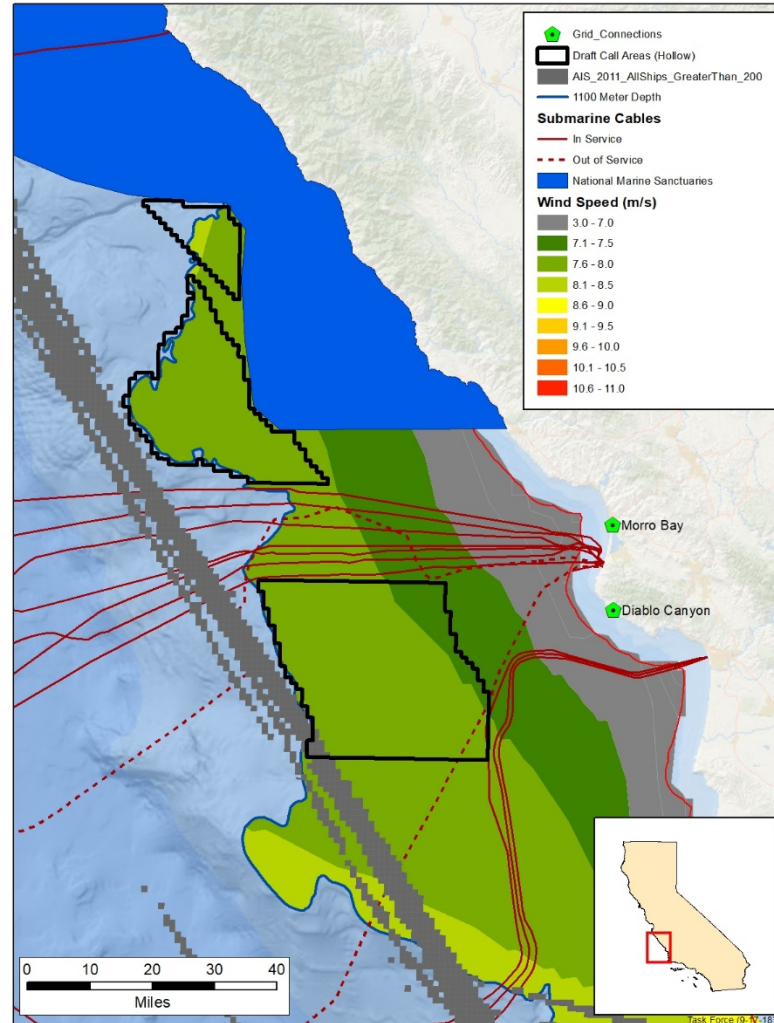
- Central Coast Draft Call Areas
  - Morro Bay North
  - Morro Bay
  - Diablo Canyon
- Grid connections
  - Morro Bay
  - Diablo Canyon



- Central Coast Draft Call Areas
  - Morro Bay North
  - Morro Bay
  - Diablo Canyon
- Grid connections
  - Morro Bay
  - Diablo Canyon
- Undersea Cables

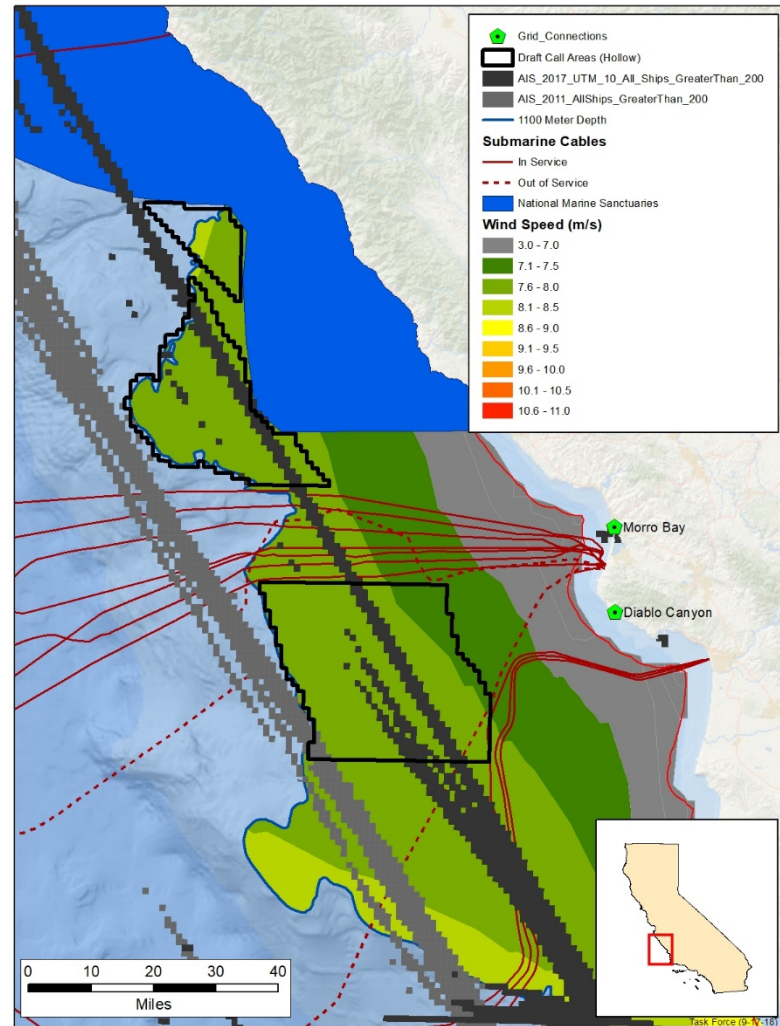


- Central Coast Draft Call Areas
  - Morro Bay North
  - Morro Bay
  - Diablo Canyon
- Grid connections
  - Morro Bay
  - Diablo Canyon
- Undersea Cables
- 2011 AIS Data



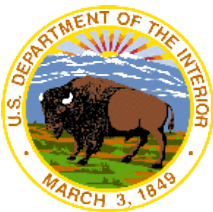
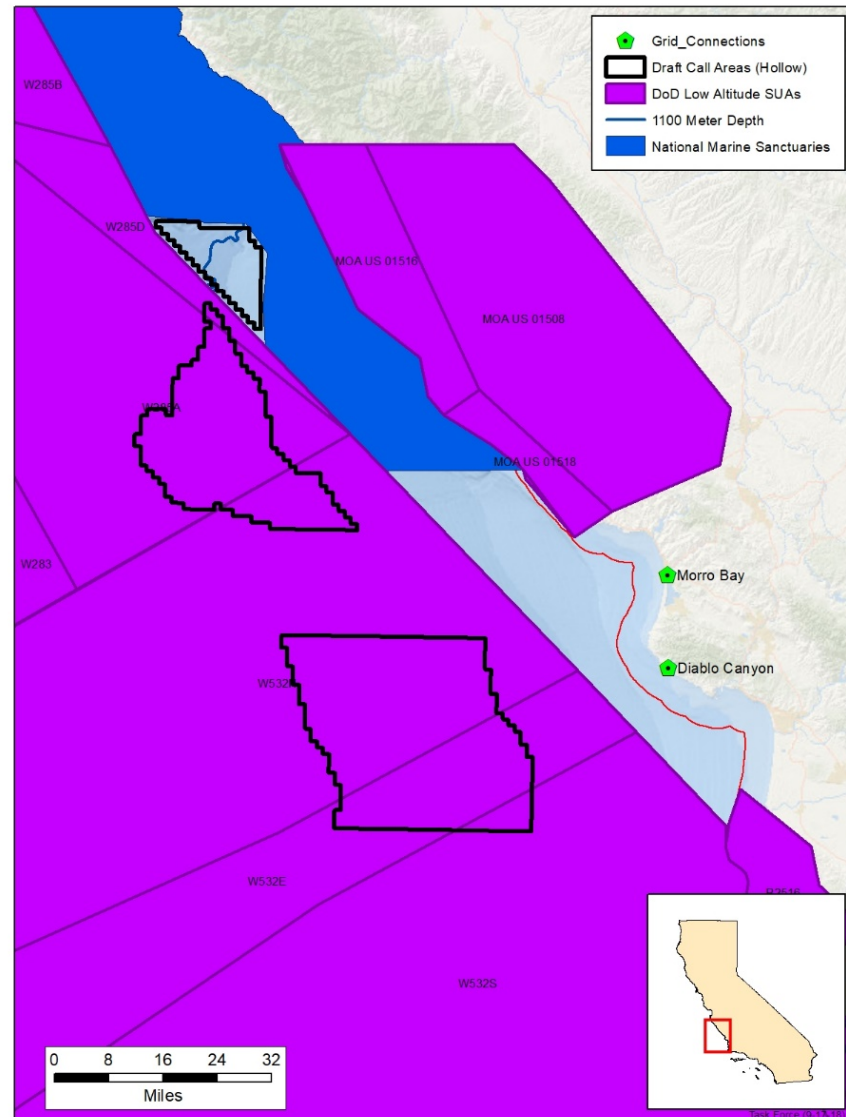


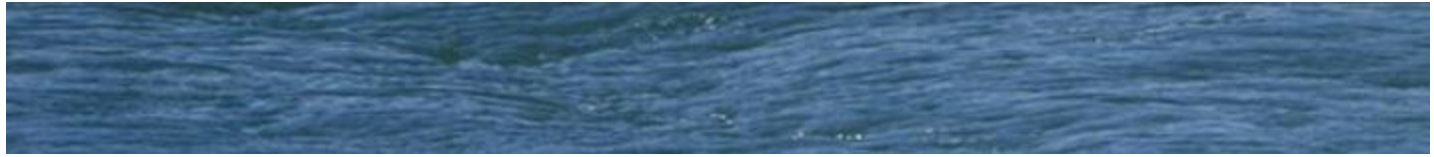
- Central Coast Draft Call Areas
  - Morro Bay North
  - Morro Bay
  - Diablo Canyon
- Grid connections
  - Morro Bay
  - Diablo Canyon
- Undersea Cables
- 2011 AIS Data
- 2017 AIS Data



# Central Coast Draft Call Areas & DoD

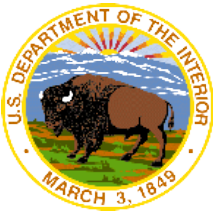
- Department of Defense Warning Areas





# **North Coast Draft Call Area**

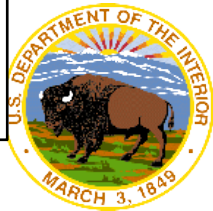
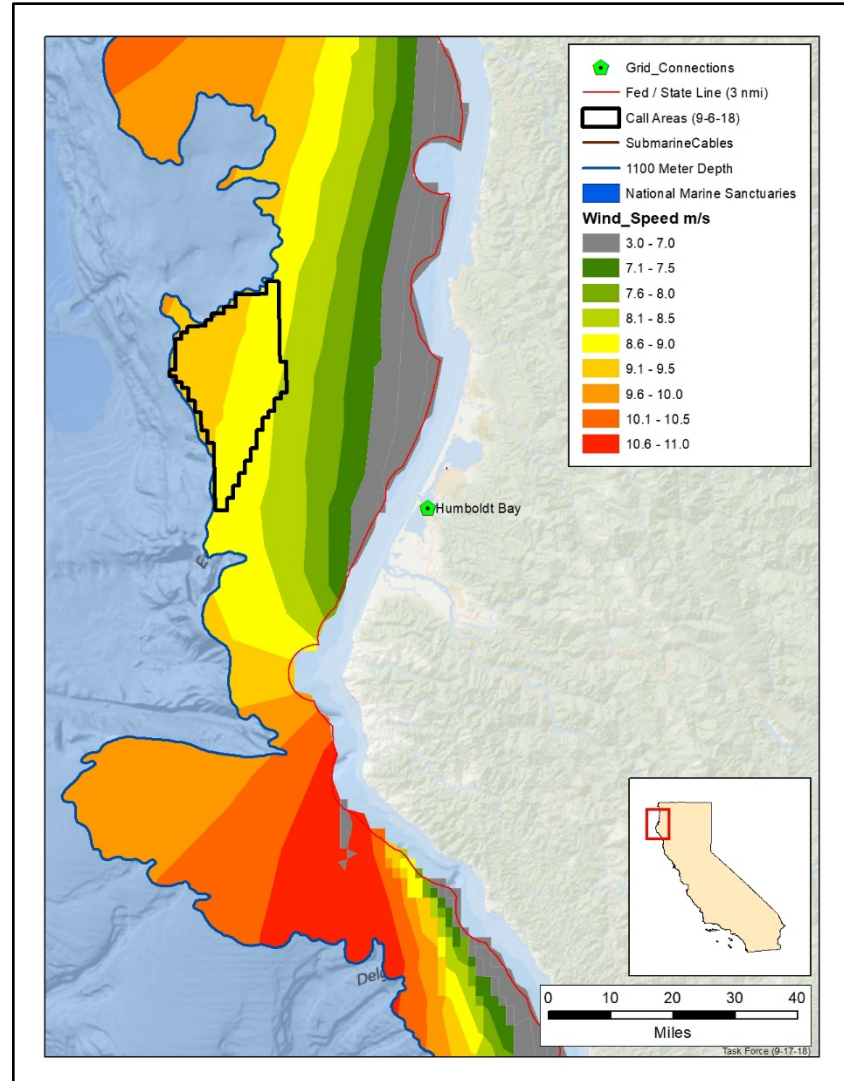
Humboldt



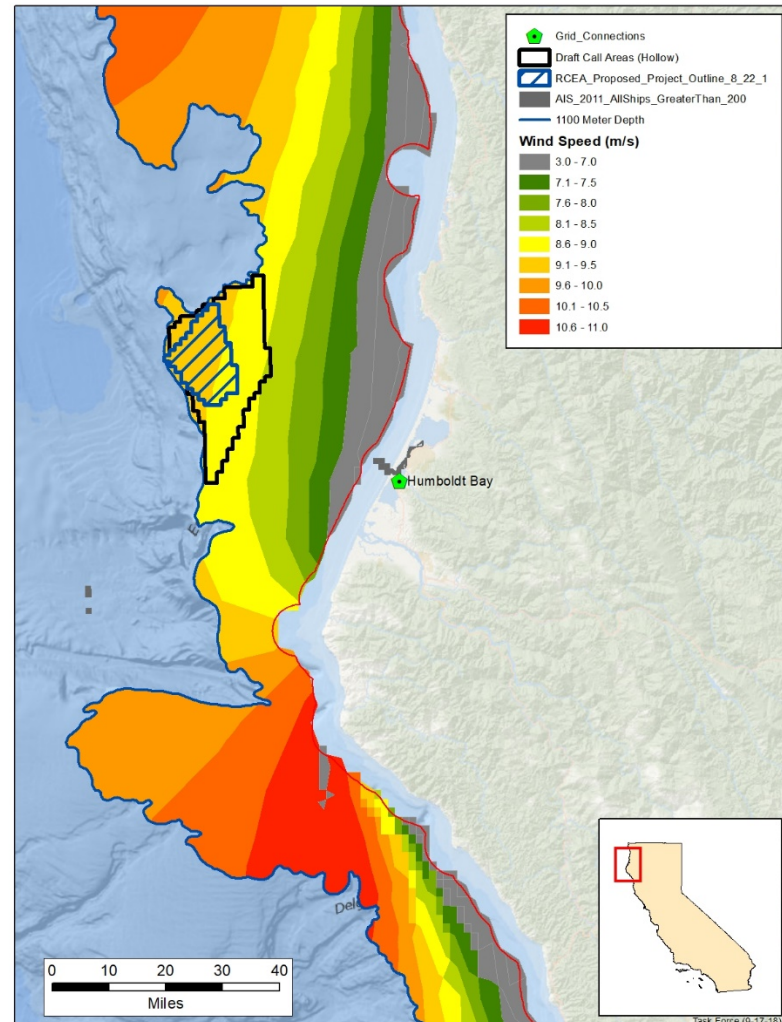


## North Coast Draft Call Area

- North Coast Draft Call Area
  - Humboldt
- Grid connections
  - Humboldt Bay

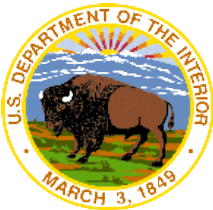


- North Coast Draft Call Area
  - Humboldt
- Grid connections
  - Humboldt Bay
- 2017 AIS Data
- Redwood Coast Energy Authority proposed lease area



## Future Activities:

- Draft Call to Task Force members – early to mid October
- Publication of the Call in the *Federal Register* (60-day comment period)
- Area Identification
  - Review comments received during Call
  - Refine Area(s) based on input
  - Identify Wind Energy Areas (WEAs)
- Conduct NEPA on WEA(s)
- Publish Proposed Sale Notice (60-day comment period)
- Publish Final Sale Notice (at least 30-days before sale date)
- Hold Auction



**Necy Sumait**

**Chief, Renewable Energy Section  
Bureau of Ocean Energy Management,  
Pacific Region**

**[necy.sumait@boem.gov](mailto:necy.sumait@boem.gov)**

**805-384-6320**

