

COMMITTEE STAFF SUMMARY FOR MARCH 23, 2017

4. U.S. BUREAU OF OCEAN ENERGY MANAGEMENT**Today's Item****Information** **Direction**

Receive overview of current planning efforts for offshore renewable energy development as led by the U.S. Bureau of Ocean Energy Management (BOEM).

Summary of Previous/Future Actions (N/A)**Background**

At the request of Governor Brown, BOEM established an intergovernmental task force on marine renewable energy. The task force held its inaugural meeting in Oct 2016, during which the State and BOEM committed to collaborating on a planning exercise for offshore wind energy development along the central coast. The California Energy Commission (CEC) is leading the planning effort. Concurrently, CEC, the Ocean Protection Council (OPC), and DFW are conducting substantial outreach to the public, elected officials, non-governmental organizations, tribes, industry, and fishermen. The results of the planning effort and outreach will be presented at the next BOEM task force meeting, scheduled for Jul 2017.

Today, Chris Potter, from OPC and the California Natural Resources Agency, will provide MRC with an informational presentation and update on offshore renewable energy efforts.

Significant Public Comments (N/A)**Recommendation (N/A)****Exhibits**

1. [Notice of Staff Workshop on Offshore Renewable Energy \(workshop held Mar 3, 2017\)](#)
2. [Chris Potter presentation: California Offshore Wind Energy Planning Process](#)

Committee Direction/Recommendation (N/A)

DOCKETED

Docket Number:	17-MISC-01
Project Title:	California Offshore Renewable Energy
TN #:	216067
Document Title:	Notice of Staff Workshop on Offshore Renewable Energy
Description:	Friday, March 3, 2017
Filer:	Misa Milliron
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	2/16/2017 2:14:58 PM
Docketed Date:	2/16/2017

CALIFORNIA ENERGY COMMISSION1516 Ninth Street
Sacramento, California 95814Main website: www.energy.ca.gov

In the matter of:)	Docket No. 17-MISC-01
)	
<i>Offshore Renewable Energy</i>)	NOTICE OF WORKSHOP
)	
_____)	RE: Offshore Renewable Energy

Notice of Staff Workshop on Offshore Renewable Energy

The California Energy Commission Staff will conduct a workshop to discuss offshore renewable energy in California.

A quorum of Commissioners from the Energy Commission may be in attendance, but no Energy Commission business will be discussed, and no votes will be taken.

Friday, March 3, 2017

9:00 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Art Rosenfeld Hearing Room

Sacramento, California

(Wheelchair Accessible)

Remote Access Available by Computer or Phone via WebEx™
(Instructions Below)

Background

On October 7, 2015 Governor Brown signed the Clean Energy and Pollution Reduction Act of 2015 (De Leon, Chapter 47, Statutes of 2015), which requires electric utilities to increase retail sales of qualified renewable energy to at least 50 percent by 2030. In 2016, Senate Bill 32 (Pavley, Chapter 249, Statutes of 2016) put into law a statewide goal to reduce greenhouse gas (GHG) emissions 40 percent below 1990 levels by 2030. To help support the state's long-term GHG reduction goals, the Energy Commission held a workshop as part of the 2016 Integrated Energy Policy Report proceedings to explore the viability, potential, opportunities, and challenges of permitting renewable energy offshore California.

In a May 12, 2016 letter to Department of Interior Secretary Sally Jewell, Governor Brown requested that a federal/state government task force be formed to coordinate state and federal planning and permitting of offshore renewable energy. The Bureau of Ocean Energy Management (BOEM) - California Intergovernmental Renewable Energy Task Force (Task Force) was created, and the first meeting of the Task Force was co-convened on October 13, 2016.

At the inaugural Task Force meeting, members reviewed BOEM's competitive leasing and planning process and agreed that development of an online data portal for the collection of spatial data and information sets pertinent to offshore wind energy in California would be useful in identifying areas potentially appropriate for offshore wind energy development off the California coast.

To further the collaboration between the state and federal government, Interior Secretary Sally Jewell and Governor Brown signed a Memorandum of Understanding (MOU) on December 12, 2016 to plan for and implement GHG reduction and renewable energy goals in a cooperative, collaborative, and timely manner. The MOU directs the Task Force to "engage in planning for offshore renewable energy to advance collaborative planning and conservation through data sharing, development and utilization of common data platforms and tools, and proactive stakeholder engagement." The MOU further directs BOEM and the state to "collaborate and engage in a multi-phase process to collect data to inform planning efforts and identify possible areas offshore California that are suitable for potential offshore renewable energy programs" and to use the initial data and information gathered to "identify one or more suitable areas offshore California for BOEM to issue one or more Calls for Information and Nominations regarding wind energy leasing."

Agenda

This workshop will convene representatives of federal and state government, researchers, and energy developers to discuss data and science needs to support planning processes related to offshore renewable energy in California and discuss the development of a Data Basin Portal to be used in collecting and sharing offshore data. The event will include presentations and panels on the Task Force, recent research findings, and a discussion with the offshore wind energy industry on evaluation criteria and data used for selecting an offshore development site.

Public Comment

Oral Comments: Oral comments will be accepted during the workshop. Public comments may be limited to three minutes per speaker. Any comments will become part of the public record.

Written comments: Written comments should be submitted to the Dockets Unit by **4:00 p.m. on March, 17, 2017**. Written comments will also be accepted at the workshop; however, Commission staff may not have time to review them before the conclusion of the workshop.

Please note that your written and oral comments, attachments, and associated contact information (e.g., your address, phone, email, etc.) become part of the viewable public record. This information may become available via Google, Yahoo, and other search engines.

The Energy Commission encourages use of its electronic commenting system. Visit the website at <https://efiling.energy.ca.gov/EComment/ECommentSelectProceeding.aspx>.

This will take you to the page for adding comments to this docket. Please enter your contact information, any organization name, and a comment title describing the subject of your comments. You may include comments in the box titled "Comment Text" or attach a file in a downloadable, **searchable format** in Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf). Maximum file size is 10 MB.

Written comments may also be submitted by e-mailing them (include the docket number 17-MISC-01 and Offshore Renewable Energy in the subject line) to the Docket Unit at:

docket@energy.ca.gov

If you prefer, you may send a paper copy of your comments to:

California Energy Commission
Docket Unit, MS-4
Re: Docket No. 17-MISC-01
1516 Ninth Street
Sacramento, CA 95814-5512

Public Adviser and Other Commission Contacts

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission proceedings. If you want information on how to participate in this forum, please contact the Public Adviser, Alana Mathews, at PublicAdviser@energy.ca.gov or (916) 654-4489 (toll free at (800) 822-6228).

If you have a disability and require assistance to participate, please contact Poneh Jones at poneh.jones@energy.ca.gov or (916) 654-4425 at least five days in advance.

Media inquiries should be sent to the Media and Public Communications Office at mediaoffice@energy.ca.gov or (916) 654-4989.

If you have questions on the subject matter of this workshop, please contact Scott Flint, Scott.Flint@energy.ca.gov or (916) 651-3774.

Remote Attendance

You may participate in this workshop through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you may listen to audio via your computer or telephone. Please be aware that the workshop may be recorded.

To join a meeting:

VIA COMPUTER: Go to <https://energy.webex.com> and enter the unique meeting number: **921 374 978**. When prompted, enter your name. This meeting does not have a password.

The "Join Conference" menu will offer you a choice of audio connections:

1. To call into the meeting: Select "I will call in" and follow the on-screen directions.
2. International Attendees: Click on the "Global call-in number" link.
3. To have WebEx call you: Enter your phone number and click "Call Me." If you are on an extension, use option 1, above.
4. To listen over the computer: If you have a broadband connection, and a headset or a computer microphone and speakers, you may use VoIP (Internet audio) by going to the Audio menu, clicking on "Use Computer Headset," then "Call Using Computer."

VIA TELEPHONE ONLY (no visual presentation): Call 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted, enter the unique meeting number: **921 374 978**. International callers may select their number from <https://energy.webex.com/energy/globalcallin.php>

VIA MOBILE DEVICES: Access to WebEx meetings is now available from your mobile device. To download an app, go to www.webex.com/products/web-conferencing/mobile.html.

If you have difficulty joining the meeting, please call the WebEx Technical Support number at 1-866-229-3239.

Availability of Documents

Documents and presentations for this workshop will be available online at: <http://www.energy.ca.gov/siting/>.

Date: February 16, 2017

Listserve: energypolicy, renewable, research, wind, siting

California Offshore Wind Energy Planning Process

Meeting with Marine Resources Committee

March 23, 2017

Presentation Topics

- Provide information about:
 - BOEM California Intergovernmental Renewable Energy Task Force
 - Offshore Wind Energy Data Gathering and Outreach Effort
- Discuss information, seek feedback from MRC

Task Force – Background

- **Inception:** Formed by request of Governor Jerry Brown – May 2016
 - First meeting in October 2016; next meeting in July 2017
- **Purpose:** Partnership to coordinate and collaborate renewable activities on the outer continental shelf offshore California
- **Membership:** Relevant state, local and tribal governments and federal agencies
- **Authority:** Does not expand or alter scope of each member's authority
- Serves as a Forum to:
 - Discuss stakeholder issues and concerns
 - Exchange data and information about biological and physical resources, ocean uses and priorities
 - Facilitate early and continual dialogue and collaboration opportunities

Current Engagement Effort February – June 2017

- **Purposes**

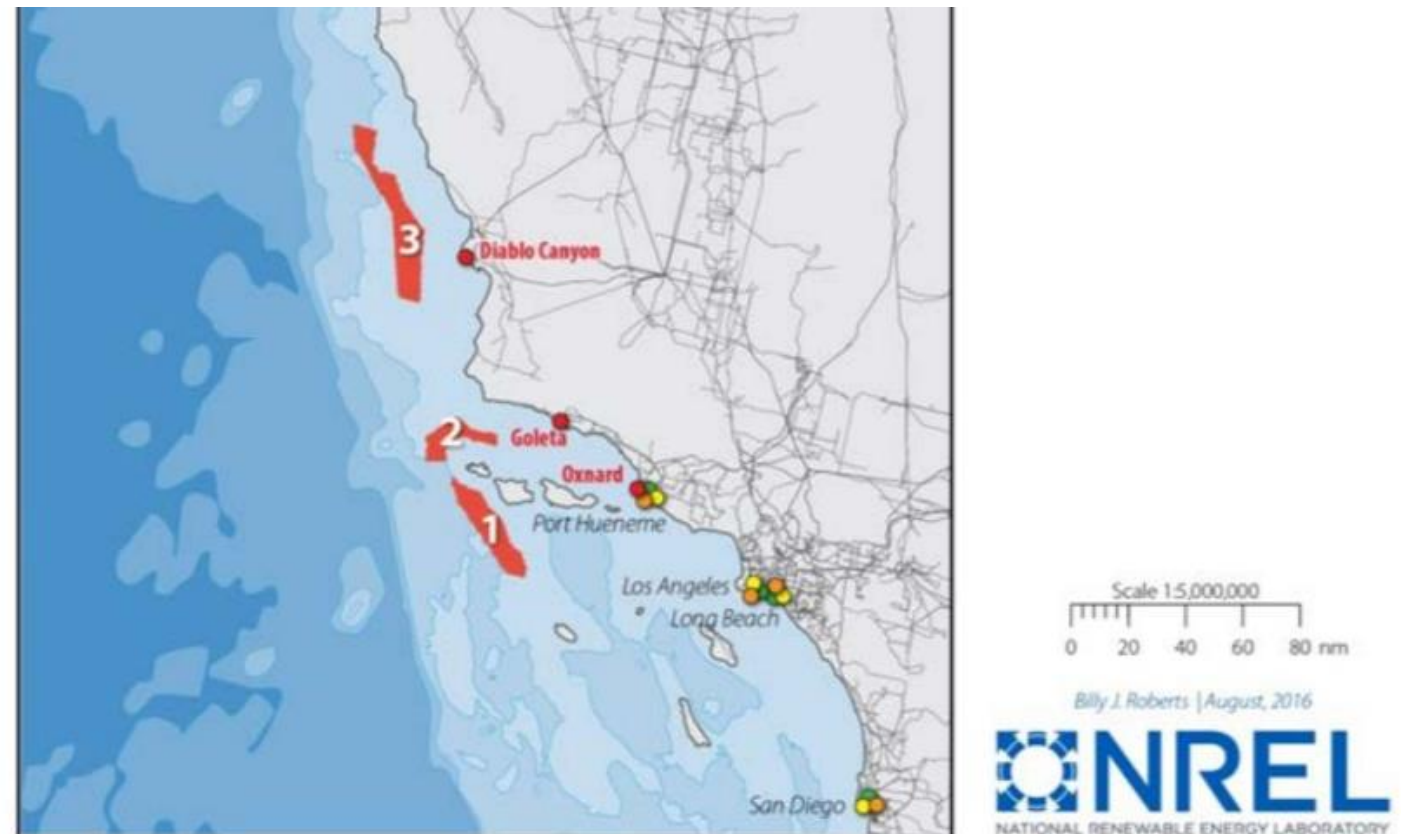
- Inform stakeholders about goals and activities of the Task Force
- Inform stakeholders about offshore wind planning effort
- Involve stakeholders in data gathering to inform offshore wind energy planning
- Solicit stakeholder feedback more broadly about offshore wind energy development off California
- Use data/information gathered to inform July 2017 Task Force recommendations about “Call Areas” for offshore wind energy off CA

- **Stakeholders**

- Statewide outreach to spatial data providers
- Coast-wide outreach to fishers
- Emphasis on outreach to coastal communities (including NGOs, elected officials) in the central coast

Why the Central Coast?

- Strong wind resources
- Existing transmission infrastructure
- Expressions of interest from wind energy developers
 - Trident Wind LLC's unsolicited lease request
 - Statoil expression of interest in Trident Wind proposed location



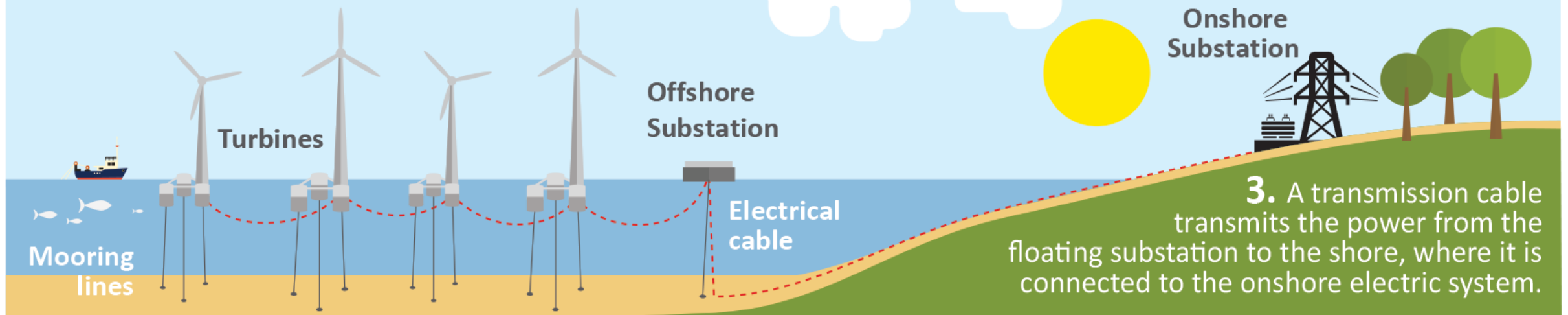
Map of offshore wind reference areas used to perform physical site and economic analysis of floating offshore wind in California, NREL 2016

About Floating Offshore Wind


How Offshore Floating Wind Farms Work

1. Floating wind turbines are configured in an array to optimize the capture of wind energy.


2. Energy captured by the turbines is conveyed through a transmission line to a floating substation.




Data Basin Gateway



California Offshore Wind Gateway

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Featured Items




 <p>Dataset Marine Protected Areas Inventory, March 2012</p>	 <p>Dataset NOAA California Ocean Uses Atlas - Non-consumptive (dominant areas)</p>
 <p>Dataset NOAA California Ocean Uses Atlas - Industrial (dominant areas)</p>	 <p>Dataset NOAA California Ocean Uses Atlas - Fishing (dominant areas)</p>

California Off-Shore Wind Resources



This map is composed of spatial datasets provided by...

Galleries

- [Coastal Management](#) 
- [Coastal and Marine Resources](#) 
- [California Offshore Energy](#) 

Marine Communities Engagement

- Outreach/engagement activities:
 - Solicited relevant data from CDFW
 - Meeting with ports and fishing communities in the central coast
 - Presenting to state- and coast-wide fishing/fisheries organizations (e.g., PFMC Habitat Committee, PCFFA)
- Relevance to the Marine Resources Committee:
 - Fish & Game Commission-managed fisheries may be affected by offshore wind energy development
 - Any offshore wind projects developed will have transmission cables running through state waters, under jurisdiction of CDFW

Contact Information

<https://www.boem.gov/california/>

Chris Potter

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California Natural Resources Agency

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