

BOEM Wind Planning Areas

Shapefile



Tags

RFI, Wind Planning Area, WEA, Alternative Energy, Renewable Energy, Request for Interest, Request for Competitive Interest, RFCI, proposed commercial lease, area of interest, proposed lease area, wind, Call for Information and Nominations, Call, Determination of No Competitive Interest, DNCI, PSN, Proposed Sale Notice, FSN, Final Sale Notice, BOEMRE, MMS, BOEM, Bureau of Ocean Energy Management, Offshore Wind, Massachusetts, New York, New Jersey, North Carolina, South Carolina, Georgia, Atlantic, Mid Atlantic, North Atlantic, Pacific, California, Oregon, Hawaii, NGDA Portfolio Themes, National Geospatial Data Asset, NGDA, Cadastre Theme

Summary

To provide spatial information on Wind Energy Planning and Development including the most recent updates to areas of interest for Wind Energy Development off the United States Coast within Federal Waters.

Description

This data set represents the most recent changes for the Wind Development Planning Areas in the Atlantic. Wind Planning Areas in this dataset represent up to six different types of announcements within the US Federal Register (FR) that can be used to show the current status of an area that is being considered for wind power development. Additionally, unsolicited proposed lease areas that have not yet begun the leasing process are also included. Individual projects are listed by state below. Previous Wind Planning Areas that are now designated as leases can be found in the BOEM Lease Areas shapefile. The shapefile and metadata for the leases can be found [here](#).

Massachusetts

On Jan. 29, 2015, BOEM held a competitive lease sale (i.e., auction) for the Wind Energy Area offshore Massachusetts. Two leasing areas in the northwest section of the original WEA (Lease Area OCS-A 0500 - 187,523 acres and OCS-A 0501 - 166,886 acres) were auctioned to the winning bidders of RES America Developments, Inc. and Offshore MW LLC. Those areas are now included in the BOEM Lease Areas shapefile. The remaining Wind Energy Area to the southeast of the leasing areas (previously proposed lease areas OCS-A 0502, OCS-A 503) is located off the coast of Massachusetts beginning approximately 20 nmi south of Martha's Vineyard and 17 nautical miles southwest of Nantucket. It covers an area of approximately 181,728 hectares (449,058 acres).

Federal Register Notices:

12/29/2010 – [Request for Interest\(RFI\)](#)

02/06/2012 – [Call for Information](#)

02/06/2012 - [Notice of Intent to Prepare an Environmental Assessment](#)

05/30/2012 – [Wind Energy Area\(WEA\)](#)

11/02/2012 – [Environmental Assessment\(EA\)](#)

06/17/2014 - [Proposed Sale Notice \(PSN\)](#)

11/26/2014 - [Final Sale Notice](#)

01/29/2015 - [Offshore Wind Auction results](#)

For more information: [Massachusetts State Activities Home Page](#)

North Carolina

On Aug. 11, 2014, BOEM announced that it has identified three Wind Energy Areas (WEAs) offshore North Carolina:

The Kitty Hawk WEA begins about 24 nautical miles (nm) from shore and extends approximately 25.7 nm in a general southeast direction. Its seaward extent ranges from 13.5 nm in the north to .6 nm in the south. It contains approximately 21.5 Outer Continental Shelf (OCS) blocks (122,405 acres). The Wilmington West WEA begins about 10 nm from shore and extends approximately 12.3 nm in an east-west direction at its widest point. It contains just over 9 OCS blocks (approximately 51,595 acres). The Wilmington East WEA begins about 15 nm from Bald Head Island at its closest point and extends approximately 18 nm in the southeast direction at its widest point. It contains approximately 25 OCS blocks (133,590 acres).

Federal Register Notices:

12/13/2012 – [Call for Information](#)

12/13/2012 - [Notice of Intent to Prepare an Environmental Assessment](#)

02/05/2013 – [Call for Information \(reopening of comment period\)](#)

08/07/2014 - [Area ID](#)

09/18/2015 - [Environmental Assessment\(EA\)](#)

08/16/2016 - [Proposed Sale Notice \(PSN\) / Request for Interest \(RFI\)](#)

For more information: [North Carolina State Activities Home Page](#)

South Carolina

On November 23, 2015, BOEM announced it would publish a Call for Information and Nominations (Call) to gauge the offshore wind industry's interest in acquiring commercial wind leases offshore South Carolina. In addition to the Call, BOEM also announced it would publish in the Federal Register a Notice of Intent (NOI) to Prepare an Environmental Assessment (EA).

11/23/2015 - [Call for Information](#)

California

In January 2016, BOEM received an unsolicited request for a commercial lease from Trident Winds LLC. (Trident Winds). BOEM reviewed the unsolicited lease application and determined in March 2016 that Trident Winds was legally, technically and financially qualified to hold a commercial lease on the Outer Continental Shelf.

1/14/2016 - [Trident Winds, LLC lease request](#)

8/16/2016 - [Request for Interest\(RFI\)](#)

For more information: <http://www.boem.gov/California/>

Hawaii

BOEM has received a total of three unsolicited wind energy lease requests from two potential developers: two lease requests from AW Hawaii Wind, LLC (AWH), the AWH Oahu Northwest Project and the AWH Oahu South Project; and one from Progression Hawaii Offshore Wind, Inc. (Progression), the Progression South Coast of Oahu Project. Each project proposes an offshore floating wind energy facility with a capacity of approximately 400 megawatts (MW) of renewable energy. The energy generated by the projects would be transmitted to Oahu by undersea cables.

[AWH Oahu Northwest Project](#)

[AWH Oahu South Project](#)

[Progression South Coast of Oahu Project](#)

Oahu Call Area - In consultation with the Hawaii Intergovernmental Renewable Energy Task Force, BOEM issued a Call for Information and Nominations (Call) to gauge the offshore wind industry's interest in acquiring commercial wind leases in two areas spanning approximately 485,000 acres of submerged lands in federal waters offshore Oahu.

6/24/2016 - [Call for Information and Nominations](#)

For more information: [Hawaii State Activities Home Page](#)

Credits

Public information, no credit necessary.

Compiler of metadata is Josh Wadlington - Bureau of Ocean Energy Management. Additional collaborators are Christine Taylor and Frank Pendleton - Bureau of Ocean Energy Management.

Use limitations

There are no access and use limitations for this item.

Extent

West -75.485351 **East** -70.021549
North 41.298789 **South** 36.821676

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE boundaries, environment, location, oceans, planning
Cadastre, utilities
Communication

* **CONTENT TYPE** Downloadable Data

Citation ▶

TITLE BOEM Wind Planning Areas
REVISION DATE 2016-10-31 00:00:00

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Resource Details ▶

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcGIS 10.0.0.2414

CREDITS
Public information, no credit necessary.

Compiler of metadata is Josh Wadlington - Bureau of Ocean Energy Management.
Additional collaborators are Christine Taylor and Frank Pendleton - Bureau of Ocean Energy Management.

Extents ▶

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
WEST LONGITUDE -75.485351
EAST LONGITUDE -70.021549
NORTH LATITUDE 41.298789
SOUTH LATITUDE 36.821676
EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* **WEST LONGITUDE** -158.663606
* **EAST LONGITUDE** -70.021549
* **SOUTH LATITUDE** 20.776510
* **NORTH LATITUDE** 44.600214

* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact ▶

POINT OF CONTACT

INDIVIDUAL'S NAME Josh Wadlington
ORGANIZATION'S NAME Bureau of Ocean Energy Management
CONTACT'S POSITION Geographer
CONTACT'S ROLE originator

Resource Maintenance ▶

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM

* TYPE Geographic
* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
* COORDINATE REFERENCE DETAILS
GEOGRAPHIC COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 4269
X ORIGIN -400
Y ORIGIN -400
XY SCALE 1111948722.2222221
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 8.9831528411952133e-009
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LEFT LONGITUDE -180
LATEST WELL-KNOWN IDENTIFIER 4269
WELL-KNOWN TEXT
GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4269]]

REFERENCE SYSTEM IDENTIFIER

DIMENSION horizontal
VALUE 4269
CODESPACE EPSG
VERSION 7.4.1

Spatial Data Properties ▶

VECTOR ▶

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME BOEM_Wind_Planning_Areas_12_15_2016
* OBJECT TYPE composite
* OBJECT COUNT 2486

Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶
RESOURCE LEVEL dataset

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶
DIMENSION horizontal

EVALUATION TYPE direct external
CONFORMANCE TEST RESULTS
TEST PASSED Yes
RESULT EXPLANATION

This dataset is believed to be free from errors, however inconsistencies can occur.

PRODUCT SPECIFICATION ▶
TITLE Visual inspection.
REVISION DATE 2016-10-31 00:00:00

Distribution ▶

DISTRIBUTOR ▶
TRANSFER OPTIONS
ONLINE SOURCE
LOCATION <https://www.boem.gov/Renewable-Energy-Program-Mapping-and-Data/>
FUNCTION PERFORMED download

DISTRIBUTION FORMAT
NAME Shapefile
VERSION n/a

TRANSFER OPTIONS
TRANSFER SIZE 0.152

Fields ▶

DETAILS FOR OBJECT BOEM_Wind_Planning_Areas_12_15_2016 ▶
* TYPE Feature Class
* ROW COUNT 2486

FIELD OBJECTID ▶
* ALIAS OBJECTID
* DATA TYPE OID
* WIDTH 4
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Internal feature number.

* DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD Shape ▶

* ALIAS Shape
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Feature geometry.

DESCRIPTION SOURCE
ESRI

DESCRIPTION OF VALUES
Coordinates defining the features.

FIELD CAT1 ▶

* ALIAS CAT1
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Type of Wind Planning Area Being Represented - See Overview Description for Category Descriptions

DESCRIPTION SOURCE
BOEM OREP

FIELD CAT2 ▶

* ALIAS CAT2
* DATA TYPE String
* WIDTH 6
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
A space holder for the same categories listed under CAT1 in the case where two Federal Register Notices apply at the same time.

DESCRIPTION SOURCE
BOEM OREP

FIELD CAT3 ▶

* ALIAS CAT3
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A space holder for the same categories listed under CAT1 in the case where three Federal Register Notices apply at the same time.

DESCRIPTION SOURCE
BOEM OREP

FIELD Info ►

- * ALIAS INFO
- * DATA TYPE String
- * WIDTH 250
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Description of the Category for Legend Description Purposes and to indicate affected US State.

DESCRIPTION SOURCE
BOEM OREP

FIELD PROT_NUMBE ►

- * ALIAS PROT_NUMBE
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Official Protraction Diagram (BOEM) in which an OCS block is related.

DESCRIPTION SOURCE
BOEM Official Protraction Diagram - MBB

FIELD PROT_APRV_ ►

- * ALIAS PROT_APRV_
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Date that the Official Protraction Diagram was Approved for Publication by the Chief of the Leasing Division's Mapping and Boundary Branch

DESCRIPTION SOURCE
BOEM MBB

FIELD BLOCK_NUMB ►

- * ALIAS BLOCK_NUMB
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The Outer Continental Shelf (OCS) Block number related to a particular Official Protraction Diagram (ex. NJ18-08, 6784) where 6784 is the block number) Those blocks split into 16ths do not have a number in this field. Use the "BLOCK_LAB" field for block numbers on 1/16 blocks.

DESCRIPTION SOURCE

BOEM MBB

FIELD BLOCK_LAB ►

- * ALIAS BLOCK_LAB
- * DATA TYPE String
- * WIDTH 6
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A field created for labeling purposes, but also has all the blocks listed and can be used as an alternate to the "BLOCK_NUMB" field.

DESCRIPTION SOURCE

BOEM ORE

FIELD SUB_BLK ►

- * ALIAS SUB_BLK
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A letter designation for 1/16th of an OCS Block.

DESCRIPTION SOURCE

BOEM OREP/MBB

FIELD Link1 ►

- * ALIAS LINK1
- * DATA TYPE String
- * WIDTH 250
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A hyperlink to the latest details on discussions available online for the particular Wind Planning Areas

DESCRIPTION SOURCE

BOEM OREP

FIELD Link2 ►

- * ALIAS LINK2
- * DATA TYPE String
- * WIDTH 250
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A hyperlink to the most recent Federal Register Notice or other decision document relating to the creation of the Wind Planning Area

DESCRIPTION SOURCE

BOEM OREP

FIELD Shape_Length ▶

- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Length of feature in internal units.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

FIELD Shape_Area ▶

- * ALIAS Shape_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

OVERVIEW DESCRIPTION ▶

ENTITY AND ATTRIBUTE OVERVIEW

Federal Register (FR) notices indicate various steps in the leasing process. There are six possible classifications. Descriptions of each FR notice are as follows:

Request for Interest (RFI) - Areas that BOEM publishes in the Federal Register to solicit nominations of interest for leasing and additional information. This is the first step in the planning and leasing process.

Call for Information (Call) - Areas that BOEM publishes in the Federal Register to solicit nominations of interest for leasing and additional information. This is the next step in the planning and leasing process. Although in some cases (New Jersey) BOEM may decide to start the process with this type of notice.

Request For Competitive Interest (RFCI) - an area that BOEM publishes in the Federal Register to solicit additional nominations of interest to determine whether or not competitive interest exists.

Determination of No Competitive Interest (DNCI) - an area that BOEM publishes in the Federal Register in which they have determined that no competitive interests exists.

Proposed Sale Notice (PSN) - a notice published by BOEM in the Federal Register that describes the proposed areas to be offered for leasing and the proposed conditions of the lease sale. This notice would not be published until after the NEPA review has been completed.

Finale Sale Notice (FSN) - a notice BOEM publishes in the Federal Register that describes the final areas to be offered, and describes the final conditions of a lease sale.

Note - Leases are part of a different data layer.

Metadata Details ▶

METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

Metadata Contacts ▶

METADATA CONTACT
INDIVIDUAL'S NAME Josh Wadlington
ORGANIZATION'S NAME Bureau of Ocean Energy Management
CONTACT'S POSITION Geographer
CONTACT'S ROLE originator

Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY as needed