Planning and Leasing Overview

Public Scoping Meeting for the Ocean Wind (OCS-A 0498) Project

William Waskes

Project Coordinator

BOEM | Office of Renewable Energy Programs
The New Jersey Journey

2005

Energy Policy Act
- Public Law 109-58 signed into law by President George Bush on August 8, 2005.
- Sec. 388 amends the Outer Continental Shelf Lands Act (OSCLA).

Interim Policy (IP) Leases
- Announced in 2007,
- 5-Year lease terms and provided
- No subsequent commercial rights.
- Expired in November 2014
- Decommissioned in October 2015.

OCS-A 0472 (Fishermen’s Energy)
- Wind Sentinel & Guardian
- Installed in September 2012 & May 2013

OCS-A 0473 (Deepwater Wind LLC)
- New Jersey Offshore Research Device (NJORD)
- Installed in November 2012;
NREL conducted an assessment to identify and delineate possible leasing areas. This information, a similar assessment by Rutgers University and Task Force input were used to inform BOEM’s decision.

BOEM has held 7 Meetings or Webinars to date: November 2009; May 2010; November 2010; December 2012; January 2014; April 2014; May 2016.

BOEM received 11 nominations of interest with varying interest in specific areas (e.g. OCS blocks).
Development of the New Jersey Wind Energy Area

- Continued Analysis of Available Data
- Stakeholder Input
- BOEM New Jersey Renewable Energy Task Force Dialogue
- New Jersey Ecosystem Baseline Study
1 OCS Block
- 4800 meters x 4800 meters
- 3204 hectares

1 Aliquot = 1/16 of an OCS Block
- 1200 meters x 1200 meters
- 144 hectares

Federal/State Boundary (SLA)
- 3 statue miles from the coastline
Based on Feedback from USCG and Maritime Stakeholders

Confirmed Later Through the Analysis of AIS Data
Department of Defense Area Assessment
(Full OCS Block Assessment)

Aliquot Level Assessment Conducted Resulting in
Reassessment of Some Aliquots from CAT3 to CAT2
New Jersey Ecosystem Baseline Study

24 Month Effort (2008-2009)

Feasible Water Depth

OCS Block Integration

Environmental Sensitivity Index
Environmental Sensitivity Index (ESI)  

Avoidance Areas
Major Environmental and Multiple Use Conflicts

New Jersey Call Area
NREL conducted an assessment to identify and delineate possible leasing areas. This information, a similar assessment by Rutgers University and Task Force input were used to inform BOEM’s decision.

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New Jersey Call For Information

Vessel Traffic Concerns

Commercial Fisheries Concerns

11 Nominations of Interest

US Wind Inc

Neptune Wind LLC
New Jersey Area Modification

2010 Cargo Vessels Only

Aliquots removed due to navigation concerns
NREL conducted an assessment to identify and delineate possible leasing areas. This information, a similar assessment by Rutgers University and Task Force input were used to inform BOEM's decision.

BOEM New Jersey Renewable Energy Intergovernmental Task Force Established

BOEM has held 7 Meetings or Webinars to date: November 2009; May 2010; November 2010; December 2012; January 2014; April 2014; May 2016.

New Jersey Call For Information and Nominations

BOEM received 11 nominations of interest with varying interest in specific areas (e.g. OCS blocks).
Zone Delineations Considered

All calculations assume 10D x 12D spacing and a 5 MW wind turbine with a 126 m diameter rotor.
## Areas Included in the Proposed Sale Notice

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Leasing Area (OCS-A 0498)</th>
<th>Leasing Area (OCS-A 0499)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Acres (1,000)</td>
<td>160.48</td>
<td>183.353</td>
</tr>
<tr>
<td>OCS Blocks</td>
<td>28.1875</td>
<td>32.1875</td>
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<tr>
<td>Average Depth</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>Bathymetry Range (m)</td>
<td>16-38</td>
<td>17-34</td>
</tr>
<tr>
<td>Average Wind Speed at 90 m (m/s)</td>
<td>8.4</td>
<td>8.6</td>
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<tr>
<td>Gross Capacity Factor (%)</td>
<td>45.4</td>
<td>46.5</td>
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<tr>
<td>Potential Capacity (MW)</td>
<td>1,660</td>
<td>1,780</td>
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<td>Lease Terms (yr)</td>
<td>1/5/25</td>
<td>1/5/25</td>
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<tr>
<td>Operating Fee Rate (%)</td>
<td>2</td>
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<tr>
<td>Rental Rate ($/acre)</td>
<td>3</td>
<td>3</td>
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</table>

Source: NREL
Published Proposed Sale (PSN) Notice for Atlantic Wind Lease Sale Five (ATLW-5)

- Eastern blocks (elbow) removed to alleviate navigational concerns prior to publishing the PSN.
- Two new qualification packages received.

Atlantic Wind Lease Sale Five (ATLW-5)

- 3 Bidders participated
- 7 rounds.
- OCS-A 0498 sold for $880,715
- OCS-A 0499 sold for $1,006,240.

Published Final Sale Notice (FSN) for ATLW-5

- Ascending clock auction with a multifactor variable.
- 20% discount for either a Power Purchase Agreement or OREC order.
- Bidder eligibility limitation

JUNE 2014

NOVEMBER 2015

SEPTMBER 2015
Tug and Barge Vessel Traffic Still of Concern
Existing Subsea Telecom Cables within OCS-A 0499
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NOVEMBER 2015

JUNE 2014

SEPTEMBER 2015
## BOEM Contacts

<table>
<thead>
<tr>
<th>Address</th>
<th>Email</th>
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<tbody>
<tr>
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<td>Sterling, Virginia 20166</td>
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<td><a href="https://www.boem.gov/renewable-energy/state-activities/new-jersey-activities">https://www.boem.gov/renewable-energy/state-activities/new-jersey-activities</a></td>
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