Outer Continental Shelf Wind Energy Leasing in the New York Bight

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Office of Renewable Energy Programs

April 14, 2021
Agenda

- BOEM Process
- Wind Energy Areas
- Proposed Lease Areas
- Questions and Conversation
Renewable Energy Process: From RFI/Call to Operation

[ Planning & Analysis ]
- Initiate Leasing Process (RFI/Call)
  - Area Identification: Wind Energy Areas
  - Publish Leasing Notices
    - 0 ~ 1/2
    - 0 ~ <1 1/2
  - NEPA/Environmental Reviews
    - 0
  - Auction

[ Leasing ]
- Lease Granted
- Submit SAP

[ Site Assessment ]
- Site Assessment & Surveys (maximum timeframe)
- BOEM Reviews & Approves SAP

[ Construction & Operations ]
- BOEM Deems COP Complete & Sufficient
- BOEM Approves COP
- BOEM Environmental & Technical Reviews
- Installation
- Submit COP (with Project Design Envelope – optional)
- Submit Design & Installation Plans
Request for Interest to Lease Sale

Area Identification
Wind Energy Areas

Public Comment
45 days

Public Comment
45 days

Leasing Document Development

You May Enter Here

Environmental Assessment Process & Public Involvement

Proposed Sale Notice

Final Sale Notice

Potential Task Force Meetings / Webinars

Request for Interest
Call
Area Identification

Proposed Sale Notice
Call for Information and Nominations

Request comments on:

- Areas for special consideration and analysis
- Conditions in the Call Area
- Areas to be considered for leasing
Wind Energy Area

- A portion of the Outer Continental Shelf (OCS) identified by BOEM for NEPA analysis (Environmental Assessment)
- The basis for a Lease Area
• Wind Energy Areas have the potential for further division into Lease Areas.
December 2020

- Federal/State Boundary
- Call Areas Outline
- BOEM OCS Blocks
- Draft Wind Energy Areas
- BOEM Lease Areas
- BOEM NJ Lease Areas*
- DoD Wind Exclusion

*Existing Commercial Wind Lease areas Previously Assessed as Site-Specific Stipulations

BOEM Bureau of Ocean Energy Management

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Pause for Poll

- Click the link in the chat
Request for Interest to Lease Sale

- **Request for Interest**
  - Potential Task Force Meetings / Webinars
  - 45 days

- **Call for Information and Nominations**
  - Public Comment
  - 45 days

- **Area Identification**
  - Wind Energy Areas
  - 0 ~ 1/2

- **Leasing Document Development**
  - Public Comment
  - 60 days
  - 1/2

- **Environmental Assessment Process & Public Involvement**
  - Proposed Sale Notice

- **Auction**
  - Final Sale Notice
Assesses Environmental Effects Associated with Leasing

- Site Characterization Activities
  - biological, geological, geotechnical, and archaeological surveys
- Site Assessment Activities
  - meteorological and oceanographic buoy deployment

Comment Period ends April 28, 2021

- Docket No. BOEM-2021-0021
- Builds upon prior EA’s completed in the Region
Environmental Assessment

Assesses Environmental Effects Associated with Leasing

- Site Characterization Activities
  - biological, geological, geotechnical, and archaeological surveys
- Site Assessment Activities
  - meteorological and oceanographic buoy deployment

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Proposed Sale Notice

**What is in a PSN?**

- Area for leasing
- Fiscal terms
- Auction details and format
- Proposed lease terms
- Last opportunity to submit company qualification materials
  - Legal
  - Technical
  - Financial
- Nonmonetary factors

**Auction Seminar for potential bidders**
Proposed Lease Areas

- Represents a balance between existing users and emerging industry
- Eight areas
  - 627,000 acres
  - 7.6+ GW, conservatively
  - ~2.7 million homes powered
- Fairways North and South
  - Not considered for leasing, in part, due to maritime traffic, proposed fairway, commercial fisheries, commercial viability
Proposed Lease Areas: Hudson North and HS-A

- **Aware of outstanding conflicts**
  - Hudson North – USCG Proposed Tug Tow Lane
  - HS-A – DOD Activities

- **BOEM looks forward to working with the Task Force to identify a path forward.**
Hudson South

- Hudson South was subdivided so each area:
  - is of roughly equal commercial viability and size;
  - includes transit lanes to account for vessel traffic patterns, fisheries, and DoD concerns;
  - is laid out in a manner to reduce wake effect; and
  - facilitates fair return to the government pursuant to the Outer Continental Shelf Lands Act.
• NYSERDA, NYSDEC, and RODA Workshop and Outreach Summary
  o June 2020

• Transit Lanes Width
  o 2.44 nmi wide
  o Permanent International Association of Navigation Congress (PIANC)
  o Areas of overlap – no surface occupancy
Hudson South: DOD

- **DoD overlap**
  - Working to understand training activities and determine if there is an opportunity for co-existence
  - Transit lane aligned with border
### Proposed Lease Areas: By the Numbers

<table>
<thead>
<tr>
<th>Lease Area</th>
<th>Acres</th>
<th>Installation Capacity (MW)</th>
<th>Homes powered</th>
<th>Power Production (MWh/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Bight</td>
<td>84,688</td>
<td>1,028</td>
<td>359,857</td>
<td>3,602,678</td>
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<tr>
<td>Hudson North</td>
<td>43,056</td>
<td>523</td>
<td>182,954</td>
<td>1,831,628</td>
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<td>HS-A</td>
<td>85,755</td>
<td>1,041</td>
<td>182,954</td>
<td>3,648,088</td>
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<td>HS-B</td>
<td>84,332</td>
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<td>358,344</td>
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<td>1,032</td>
<td>361,369</td>
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<td>HS-F</td>
<td>87,890</td>
<td>1,067</td>
<td>373,462</td>
<td>3,738,893</td>
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<tr>
<td><strong>Total</strong></td>
<td>627,331</td>
<td>7,616</td>
<td>2,665,659</td>
<td>26,687,052</td>
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</tbody>
</table>

1 Megawatts (MW) based upon 3MW/sqkm. Note this energy density conversion ratio is conservative, BOEM is reviewing COPs for projects with twice the energy density used here.

2 Based upon 350 homes per MW

3 Megawatt hours per year (MWh/yr) Formula = Capacity (MW) * 8760 (hrs/yr) * 0.4 (capacity factor)
<table>
<thead>
<tr>
<th>Milestone</th>
<th>Action</th>
<th>Target Date</th>
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<tbody>
<tr>
<td>Environmental Assessment</td>
<td>NOA Draft EA</td>
<td>July 2021</td>
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<td>30-Day Comment Period</td>
<td>July–August 2021</td>
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<td>NOA Final EA/FONSI</td>
<td>September 2021</td>
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<tr>
<td>Proposed Sale Notice</td>
<td>Publish PSN</td>
<td>June 2021</td>
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<td>60-Day Comment Period</td>
<td>June–August 2021</td>
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<td>Final Sale Notice</td>
<td>Publish FSN</td>
<td>Fall 2021</td>
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<td>Minimum 30-Day Waiting Period</td>
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<tr>
<td>Lease Sale</td>
<td>Sale Date</td>
<td>Late 2021 or Early 2022</td>
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Questions for Task Force Consideration

1. **Number, size, orientation, and location of the proposed lease areas**
   - which lease areas, if any, should be prioritized for inclusion, or exclusion, from this lease sale and/or future lease sales
   - Alternative subdivisions

2. **Transit Corridors**
   - Reflections on proposed transit corridors