Renewable Energy Program by the Numbers

Competitive Lease Sales Completed: 8

Active Commercial Offshore Leases: 17

Site Assessment Plans (SAPs) Approved: 11

General Activities & Research Plans Approved: 2

Construction and Operations Plans (COPs):
- Submitted: 14
- Anticipated within next 12 months: 2

Regulatory Guidance: 11

Leasing Under Consideration: 7

Steel in the Water: 2020
NY Bight Timeline

- **September 2017**
  - Request from NY

- **April 2018**
  - Call For Information and Nominations

- **Nov 2018**
  - Task Force meeting – Draft WEAs

- **March 2019**
  - New York Bight Transit Lane Workshop

- **December 2020**
  - Revised Department of Defense Analysis

- **March 2021**
  - WEAs announced

- **April 2021**
  - Task Force Meeting – Proposed Sale Notice

- **Anticipated June 2021**
  - *Publish Proposed Sale Notice*
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

Scoping Comment Period ended April 28, 2021

Comment period on EA will be concurrent with the Notice of Availability
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
  o 627,000 acres
  o 7.6+ GW, conservatively
  o ~2.7 million homes powered

• Fairways North and South
  o 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
• **NYSERDA, NYSDEC, and RODA Workshop and Outreach Summary**
  - June 2020

• **Transit Lanes Width**
  - 2.44 nmi wide
  - Permanent International Association of Navigation Congress (PIANC)
  - Areas of overlap – no surface occupancy

Hudson South: Transit Lanes
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.
<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></td>
<td>60-Day Comment Period</td>
<td>June - August 2021</td>
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<tr>
<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 Council Consideration

- **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

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

- **Stakeholder Engagement**
  - BOEM is proposing a lease stipulation that would require lessees provide a semi-annual progress report that summarizes engagement with existing users
  - Methods to improve coordination between lessees, stakeholders, and Tribes

- **Prescribed layouts**
  - Should BOEM consider prescribing uniform and aligned turbine layouts to Lease Areas, especially in the Hudson South WEA?
Environmental Studies Program

- BOEM concluded solicitation for 2022 study ideas last winter
- Study ideas are reviewed by the Standing Committee on Offshore Science and Assessment (COSA) convened under the National Academy of Sciences (summer)
- Results of studies are incorporated into BOEM environmental assessment and decision-making process
Hydrodynamic Modelling

- Project was awarded to DHI and CSA, tasks included:
  - Desktop Review
  - Hydrodynamic model development
  - Particle tracking/agent-based model development
  - Model scenarios
    - 3 “particles”
      - Atlantic sea scallops
      - Silver hake
      - Summer flounder
    - 4 OWF scenarios
  - Final Report: Imminent

Settlement of summer flounder: baseline project area
Other Ongoing Fisheries Studies Updates

- Movement Patterns of Fish in Southern New England
- Fish acoustic effects
  - BSB & Squid Part 1
  - BSB & Squid Part 2
- Surfclam economic impact model
- NMFS Bottom Trawl Survey - Observation System Simulation Experiment (OSSE)
### Proposed Lease Areas: By the Numbers

<table>
<thead>
<tr>
<th>Lease Area</th>
<th>Acres</th>
<th>Installation Capacity (MW)&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Homes powered&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Power Production (MWh/yr)&lt;sup&gt;3&lt;/sup&gt;</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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<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>
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<td>HS-B</td>
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<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>

<sup>1</sup> 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.

<sup>2</sup> Based upon 350 homes per MW

<sup>3</sup> Megawatt hours per year (MWh/yr) Formula = Capacity (MW) * 8760 (hrs/yr) * 0.4 (capacity factor)