Get the Facts on the South Fork Wind Farm!
An Informational Session on
New York’s First Offshore Wind Farm

Thursday, January 7th
6:00pm - 7:30pm
South Fork Wind
A Joint Venture of Ørsted and Eversource
NY League of Conservation Voters Forum
January 7, 2020
New York’s First Offshore Wind Farm

- Up to 15 Turbines located 35 miles east of Montauk Point
- 132MW delivered output: Power for 70,000 homes annually
- Power delivered to the East Hampton Substation; contract with LIPA
- Single, 138kV transmission line
- Operational December 2023
Project Components in East Hampton

1. Sea-to-Shore Transition
   - 2500 Ft Horizontal Directional Drill (HDD) – Begins in road 500 ft landward of dunes, ends 1750 feet (1/3 mile) offshore of beach
   - HDD Work Zone on Beach Lane

2. Underground Transmission Line
   - Approximately 2 miles of underground cable in Town-owned roads
   - Approximately 2 miles of underground cable in the Long Island Railroad (LIRR) Corridor

3. Interconnection Facilities (Substation)
   - Infrastructure to step down power from 138kV to 69kV
Underground Onshore Cable Route

- **Sea-to-shore Transition: Under Wainscott Beach**

- **Town-Owned Roads (~2 miles):**
  - Beach Lane
  - Wainscott Main Street
  - Sayres’s Path
  - Wainscott Stone Rd
  - Wainscott Northwest Rd

- **LIRR Corridor (~2 Miles)**
Question & Answer Portion

Moderator: Joe Martens
Sea-To-Shore Transition
Overview of Process Using Horizontal Directional Drill

**PHASE 1: DRILL PATH FOR CABLE**
Drill a path from road, deep under the beach – nearshore area to location approximately one-third of mile from shore.

**PHASE 2: CONDUIT**
Pull conduit pipe/sleeve through bore hole.

**PHASE 3: CABLE**
Pull submarine cable from offshore through previously installed conduit.
HDD Draft Layout
(graphic from Article VII Application Filing)

Layout will be updated to reflect agreed-upon conditions from settlement.
Sea-To-Shore Transition
Overview of Process Using Horizontal Directional Drill

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*FIGURE NOT TO SCALE*
Onshore Cable Installation
Example: Underground vaults

Vaults in a beach parking lot where two submarine cables come ashore. Post installation, only manhole covers are visible. (Note: parking lot was unpaved prior to installation)
Onshore Cable Installation
Example: Concrete encased underground duct bank

- Underground duct bank installed via trenching
- Typical buried utility work
- Trenching process similar for the 10 miles of water mains recently installed throughout Wainscott (2018)
Visual Simulation of Beach Lane: Before and After Project
Question & Answer Portion

Moderator: Joe Martens
Visual Simulation of Interconnection Facilities

(Graphic from Article VII filing, Substation subject to final design)
## Construction Windows

(defined in Town easements and proposed permit conditions)

<table>
<thead>
<tr>
<th>Work Windows for Ground-Disturbing Construction Based on Permit/Real Estate Conditions</th>
<th>Total Work Duration</th>
<th>Oct</th>
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<th>Dec</th>
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<td>(HDD) Work Zone for Sea-Shore-Transition Work window for active drilling</td>
<td>Approx. 4 months</td>
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<td>Onshore Underground Cable Construction ~2 miles in Town roads</td>
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<td>~2 miles in LIRR corridor</td>
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<td>Interconnection Facilities</td>
<td>Approx. 18 months</td>
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**Legend:**
- Construction allowed
- Partial/construction allowed
- Fines if area is not cleared
- Construction allowed

**Construction may span two work seasons to accommodate construction restrictions and timing of permit issuance.**
Question & Answer Portion

Moderator: Joe Martens
Cable Infrastructure Profiles

Bundled Submarine Cable Profile
(Cable is 12 inches maximum in diameter)

Onshore/Underground Cable Duct Bank Profile
Alternatives Analysis (from Article VII application)
Beach Lane Vs. Atlantic Ave

Beach Ln Route:

• 4.3 miles onshore.
• 78 homes within 200 feet.
• Less Construction Impact
  • ~9 months construction for underground line
  • Entirely within public rights of way including lightly traveled town roads
  • Underground construction along mostly flat LIRR right-of-way; no existing overhead transmission.
• Unprecedented environmental and community protections contained within Joint Proposal (permitting document)

Atlantic Ave Route:

• 5.5 miles onshore. 20% longer than Beach Ln route.
• 139 homes within 200 feet. 40% more homes affected.
• Infeasible underground construction along LIRR rights of way due existing infrastructure congestion. Additionally, presence of existing overhead transmission significantly increases complexity of construction.
  • ~18+ months construction for underground line
  • High risk of electrical outages during construction
• Trustees have stated they will not grant real estate rights for Atlantic Beach Route
Question & Answer Portion

Moderator: Joe Martens
Thank you for joining us!

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