



# Save LBI Presentation

[www.savelbi.org](http://www.savelbi.org)

Summer/Fall 2024

# Atlantic Shores Project –South and North

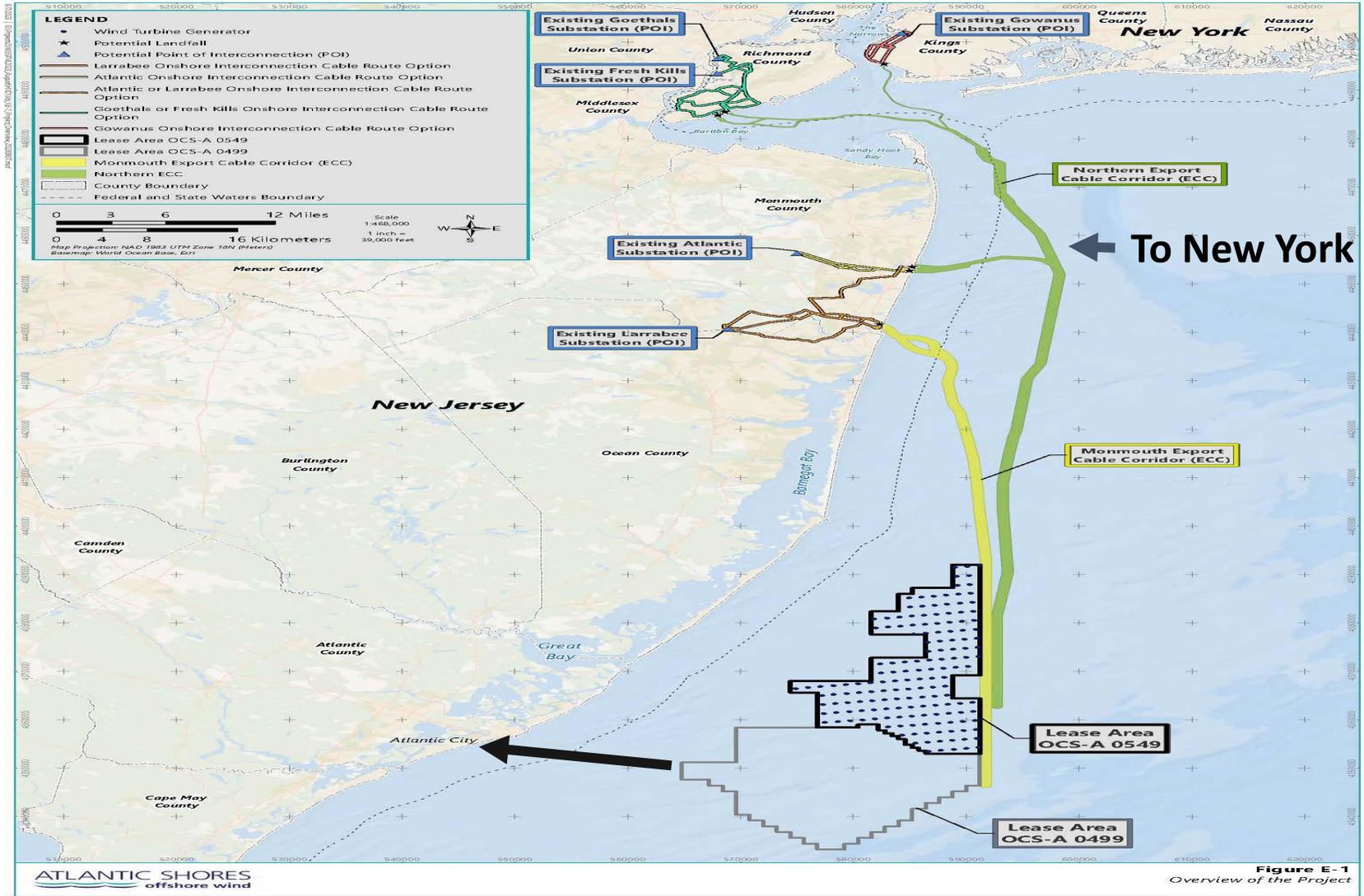
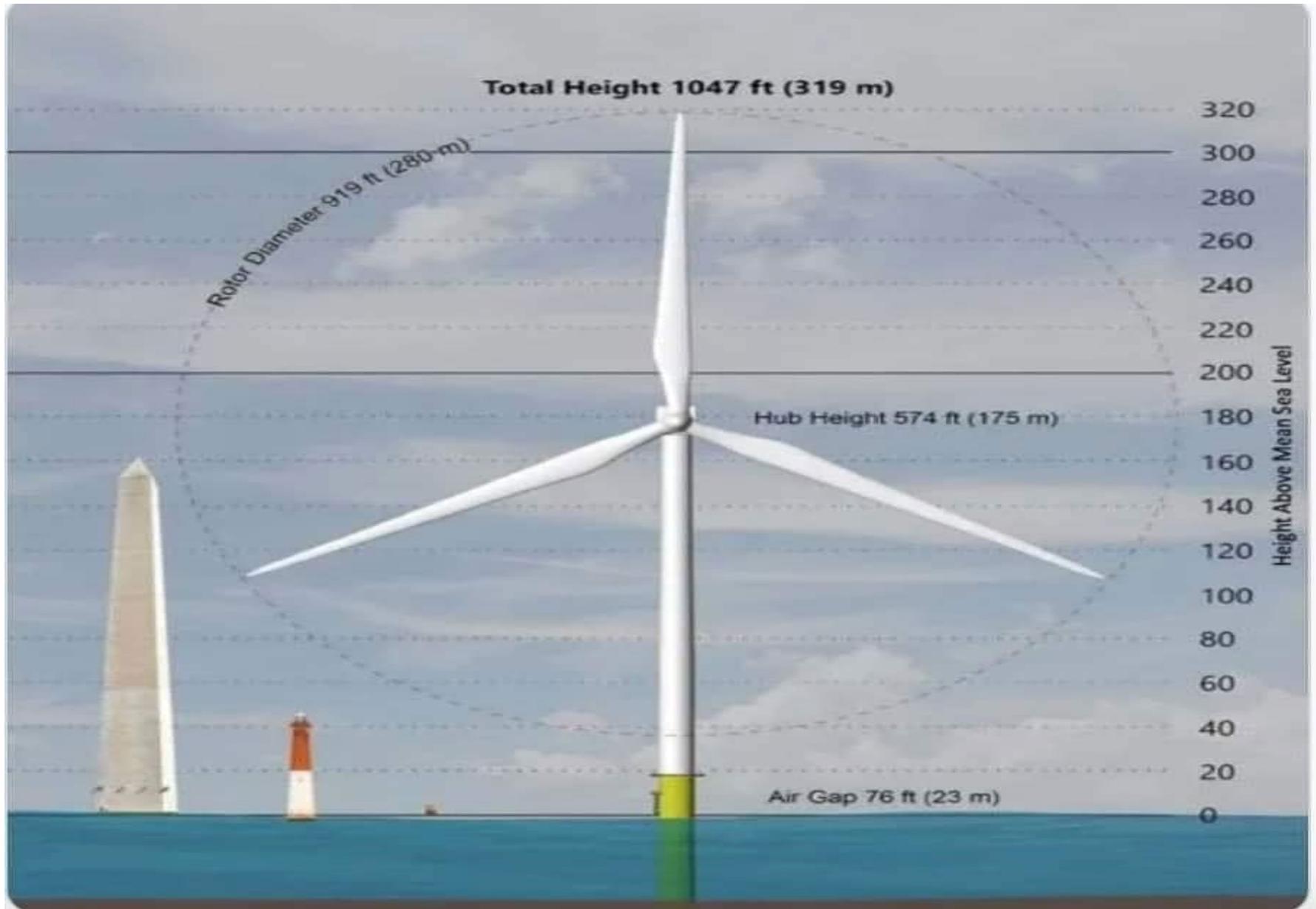


Figure E-1  
Overview of the Project





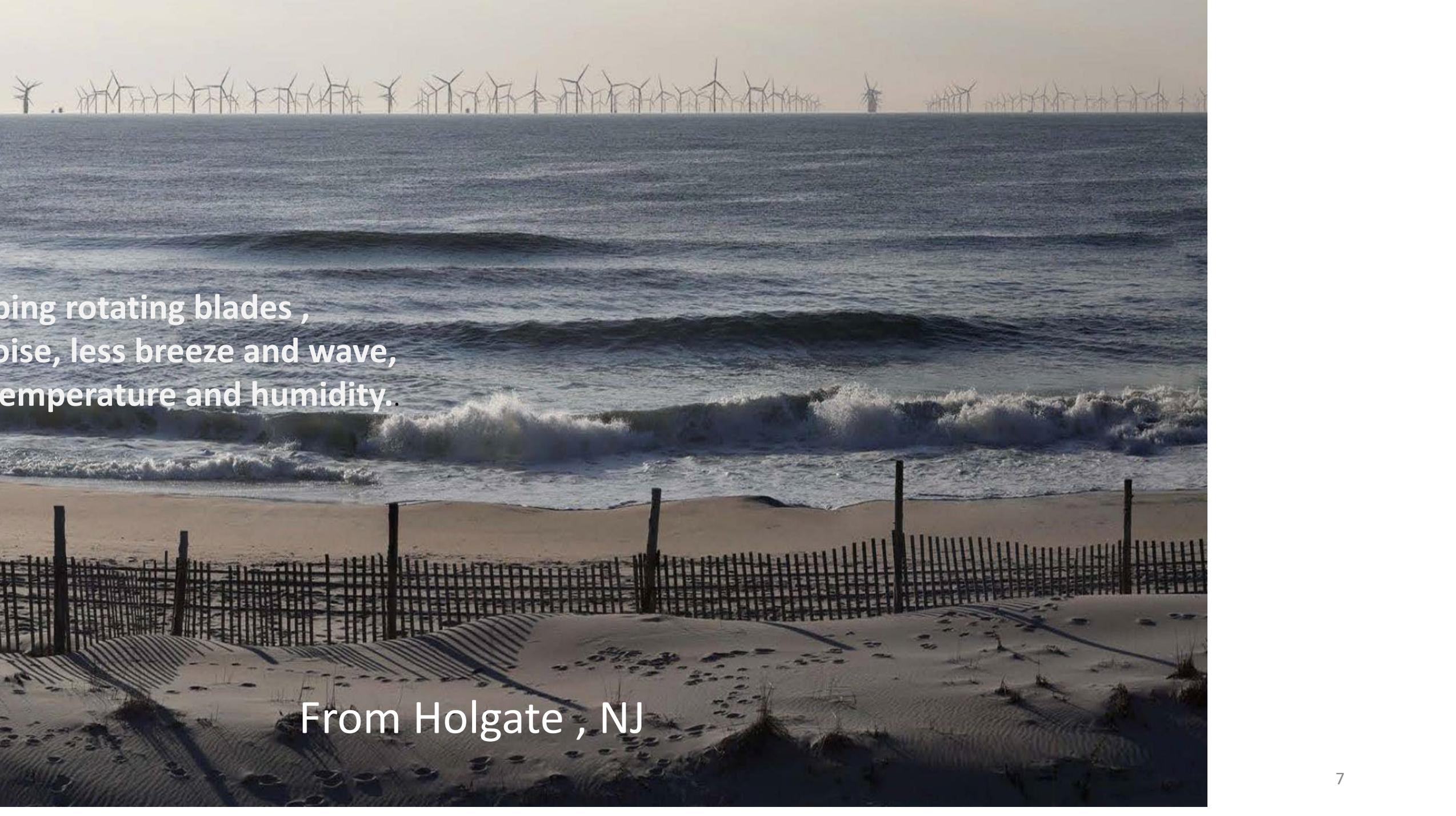
# The Project

- The Atlantic Shores Offshore Wind project, 357 turbines, 1,048 feet high, 9 miles out, the tallest, closest, most shore intrusive in the world sited along a beautiful barrier Island, and in the migration path of a critically endangered whale.
- South Project Just Approved-200 turbines.

## **Why Is Save LBI So Concerned with the Atlantic Shores Wind-Turbine Project?**

**The Atlantic Shores wind turbine project, just 9 miles off a beautiful barrier Island beach will:**

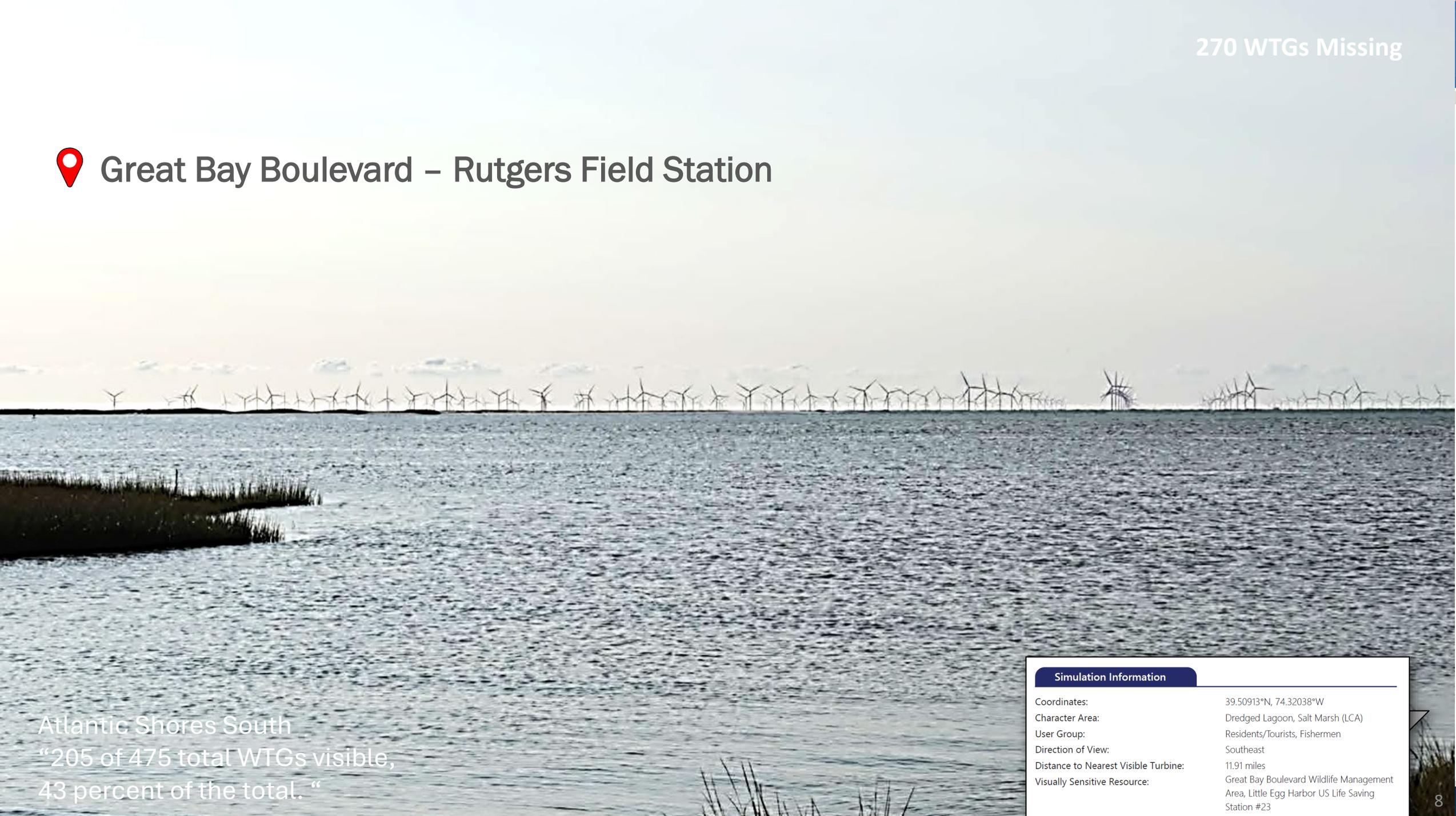
- **Place several hundred huge industrial structures into the ocean with no plan or capability to remove and process them onshore-resulting in visual blight, navigation hazards, the loss of hundreds of thousands of acres of marine resource, and turbine structural failures and shore contamination similar to the recent Nantucket event for generations.**
- **Destroy the shore experience with highly visible turbines and disturbing blade rotation, airborne noise, reduced breeze, and higher air temperature and humidity.**
- **Have a severe economic impact on tourism, jobs, rentals, property value, and tax revenues.**
- **Dramatically increase electric bills to every user in the State placing an additional financial burden on households and businesses.**
- **Kill marine mammals from the high levels of underwater noise from vessel surveys, pile driving of foundations, and the long-term operation of these larger and noisier turbines.**
- **Impair our defense air radars at Gibbsboro, NJ**
- **Have in the words of the project impact statement itself only a “negligible” effect on climate change caused by heat transfer that is already underway: this project would only delay future sea level rise for a matter of days, not stop it.**



ing rotating blades ,  
oise, less breeze and wave,  
emperature and humidity.

From Holgate , NJ

 Great Bay Boulevard – Rutgers Field Station



Atlantic Shores South  
“205 of 475 total WTGs visible,  
43 percent of the total.”

Simulation Information

Coordinates:	39.50913°N, 74.32038°W
Character Area:	Dredged Lagoon, Salt Marsh (LCA)
User Group:	Residents/Tourists, Fishermen
Direction of View:	Southeast
Distance to Nearest Visible Turbine:	11.91 miles
Visually Sensitive Resource:	Great Bay Boulevard Wildlife Management Area, Little Egg Harbor US Life Saving Station #23

# From Barnegat Light



## Permanence of Turbine Installation

- Foundation: 50-foot diameter, 6 inches thick steel shell embedded in seabed,
- Tower: 40-foot diameter, 500 feet long, 3 inch thick steel
- Blades: 337 feet long, fiberglass, carbon, adhesives
- No requirement to remove, can leave in or topple in place
- No onshore infrastructure to cut into rail/truck size
- No dedicated fund accrued during operation
- Not good track record in the Gulf of Mexico
- Long Term Prospect, Idle Turbines with Blades Periodically Falling into the Ocean and Pieces onto Beaches.

# Broken Vineyard Wind Turbine Scatters Debris Along Nantucket's South Shore; Wind Farm Operations Shut Down By Feds

Jul 16, 2024



- **Blade Structural Failure:**
- **Foam & Fiberglass Shards Washing Ashore**
- **Failure Frequency- Not Disclosed**
- **Cleanup Responsibility- Unclear**

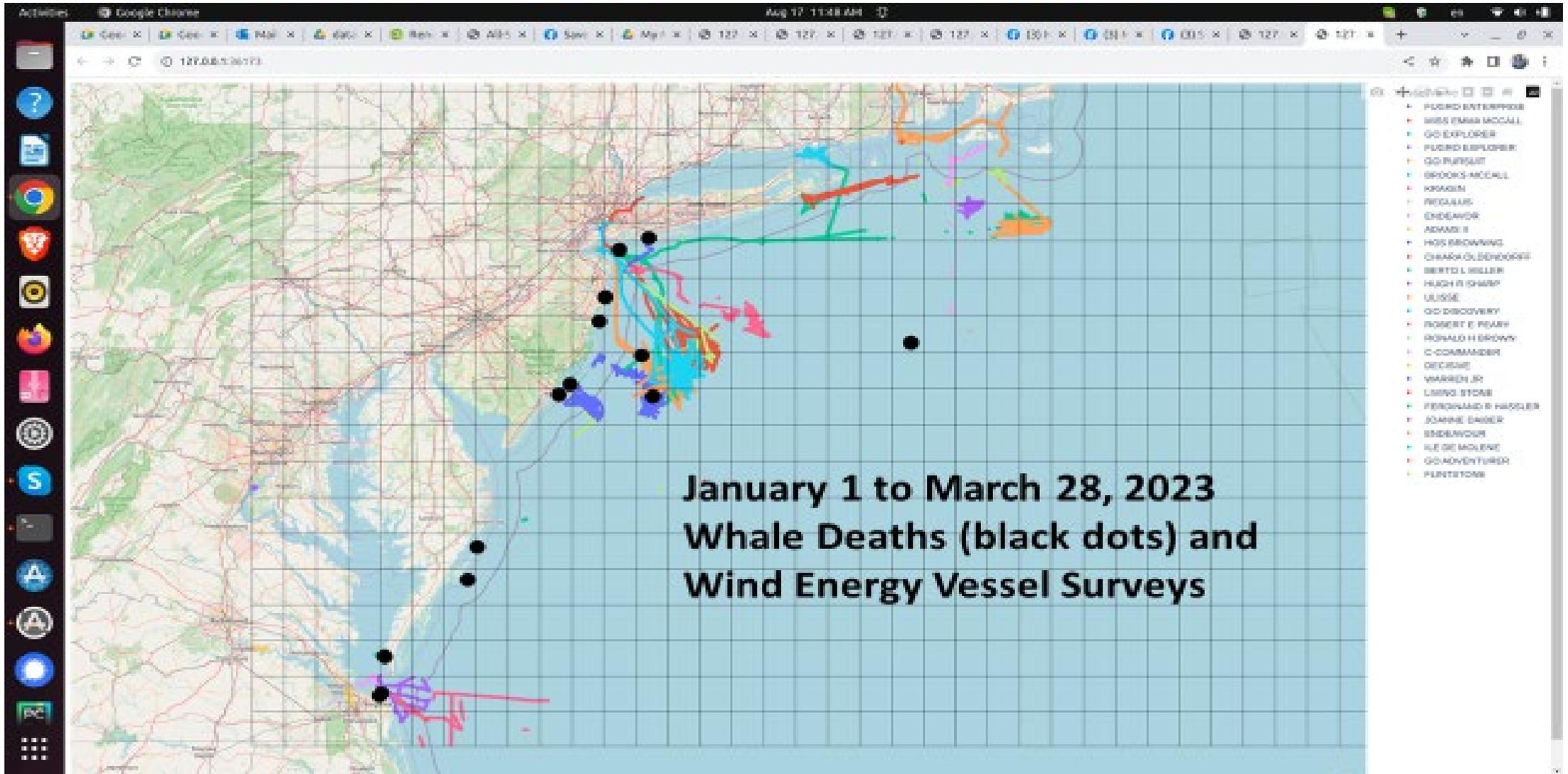
## Electric Bills—Percentage Increases

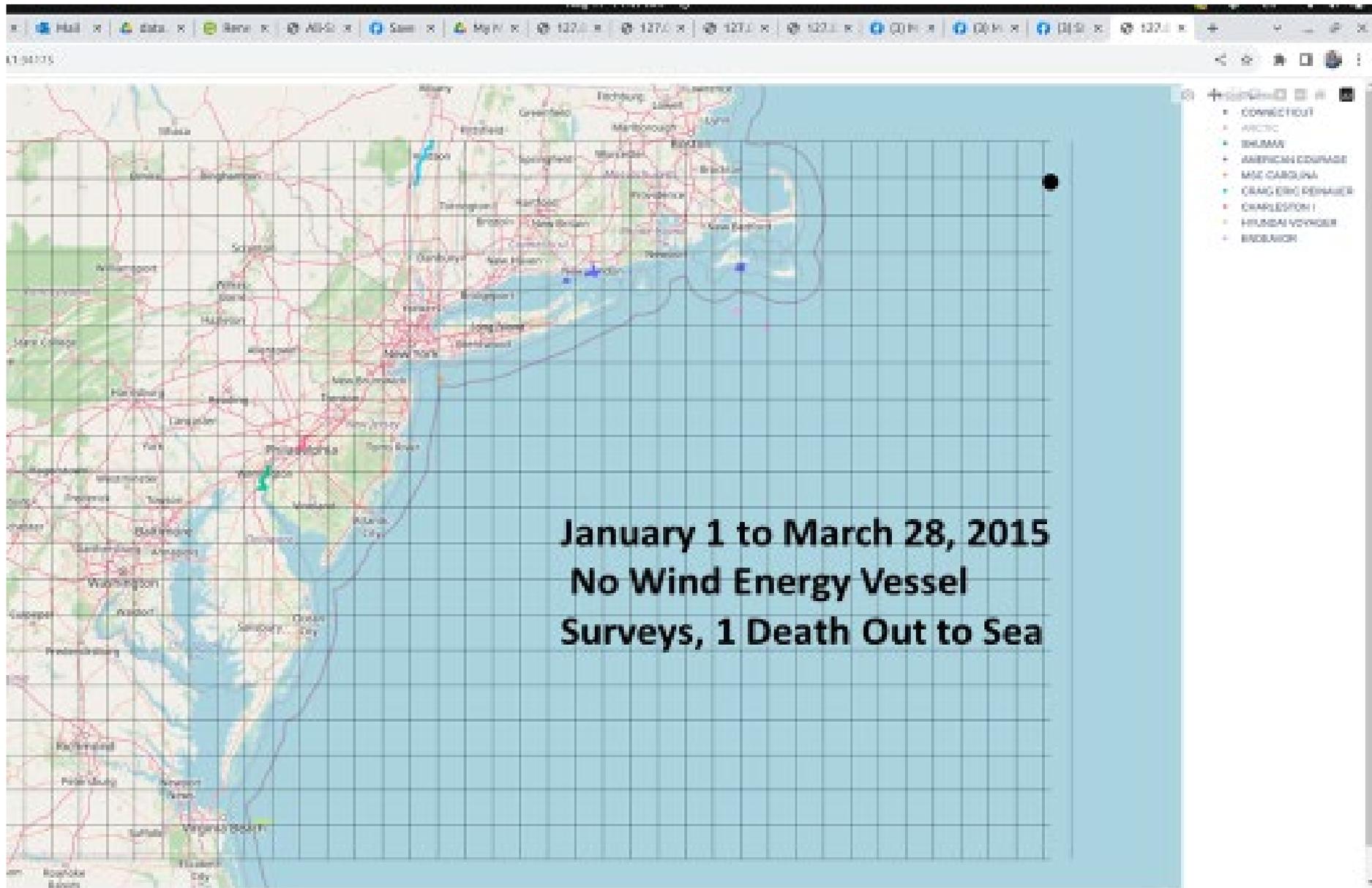
Sector	Two Approved Projects	Atlantic Shores South-pending	Combined	Full 11,000 megawatt program
Residential	13	11	<b>23</b>	<b>38</b>
Commercial	15	13	<b>27</b>	<b>45</b>
Industrial	17	15	<b>30</b>	<b>50</b>

## Tourism, Rental, Property Value, Job Impact

- Tourism Visits, **down 25%**
- Tourism Jobs, about 5,000 longer term lower paying tourism related jobs lost, contrasted with a few thousand temporary, higher paying, wind project construction jobs gained.
- Oceanfront Rentals, 54% would not return with turbines visible, spillover effect on other rentals?
- Oceanfront Property Value, down 25% , spillover effect on other properties?

# Vessel Surveys & Whale Deaths





## Pile Driving to Place Foundations in Seabed



**Requires 15,387  
Strikes to Drive  
One Foundation  
  
Every 30 Seconds**

**Agency  
Assumptions:**

**Source Level less  
from Bubble  
Curtains**

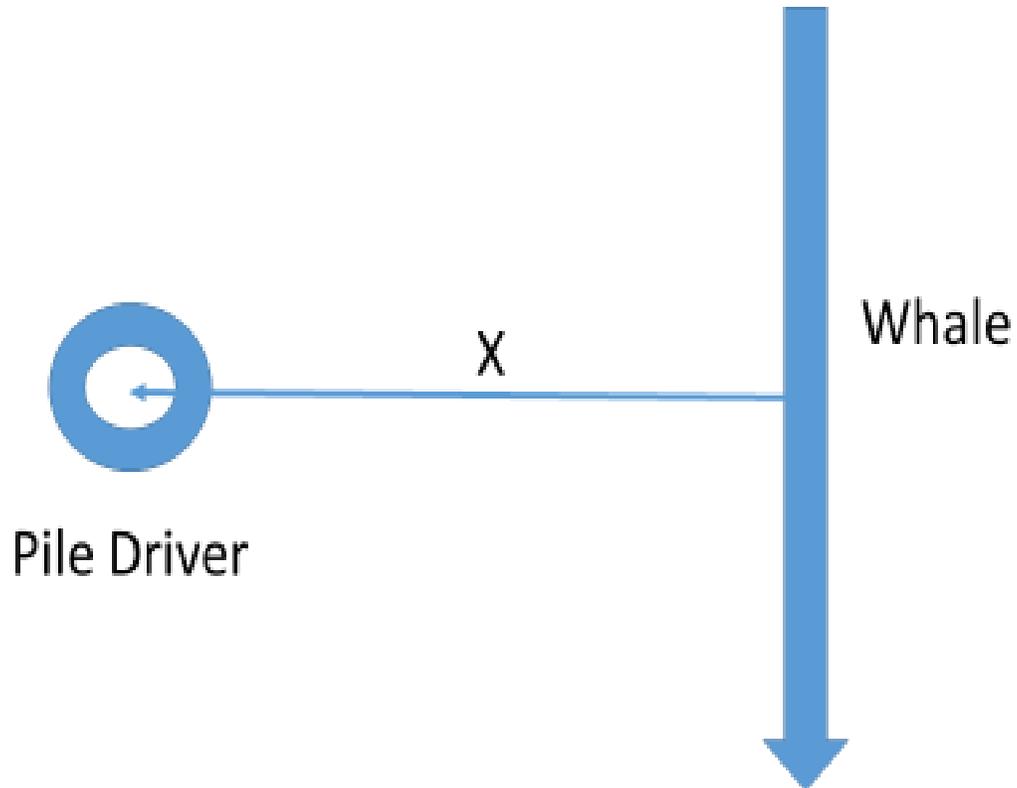
**Very High Noise  
Transmission Loss**

**Minimal NARW  
Presence , less  
hearing at low  
frequencies**

**Disturbance vs  
Direct Hearing Loss**

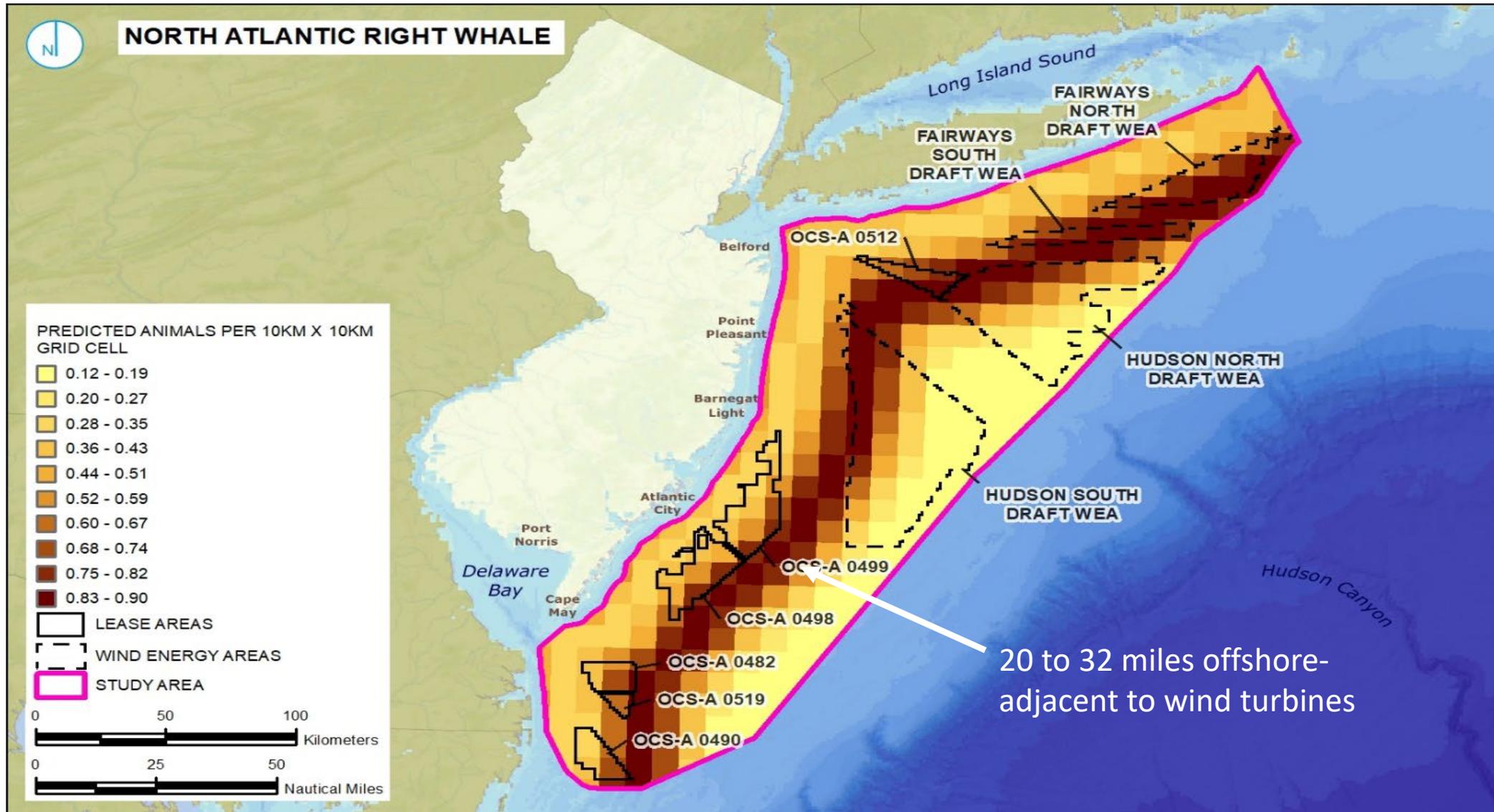
## Pile Driving

Whale Swimming Past Pile Driver



- **Permanent hearing Loss**
- **Accumulated Noise Energy: Level Plus Time**
- **Level can be less than Disturbance**
- **X = 3.7 miles**

# Migration Corridor-North Atlantic right whale



Source, NJ Offshore Wind Strategic Plan, Natural Resource Technical Appendix, Figure 21.

# Impact on the Right Whale from Turbine Operation

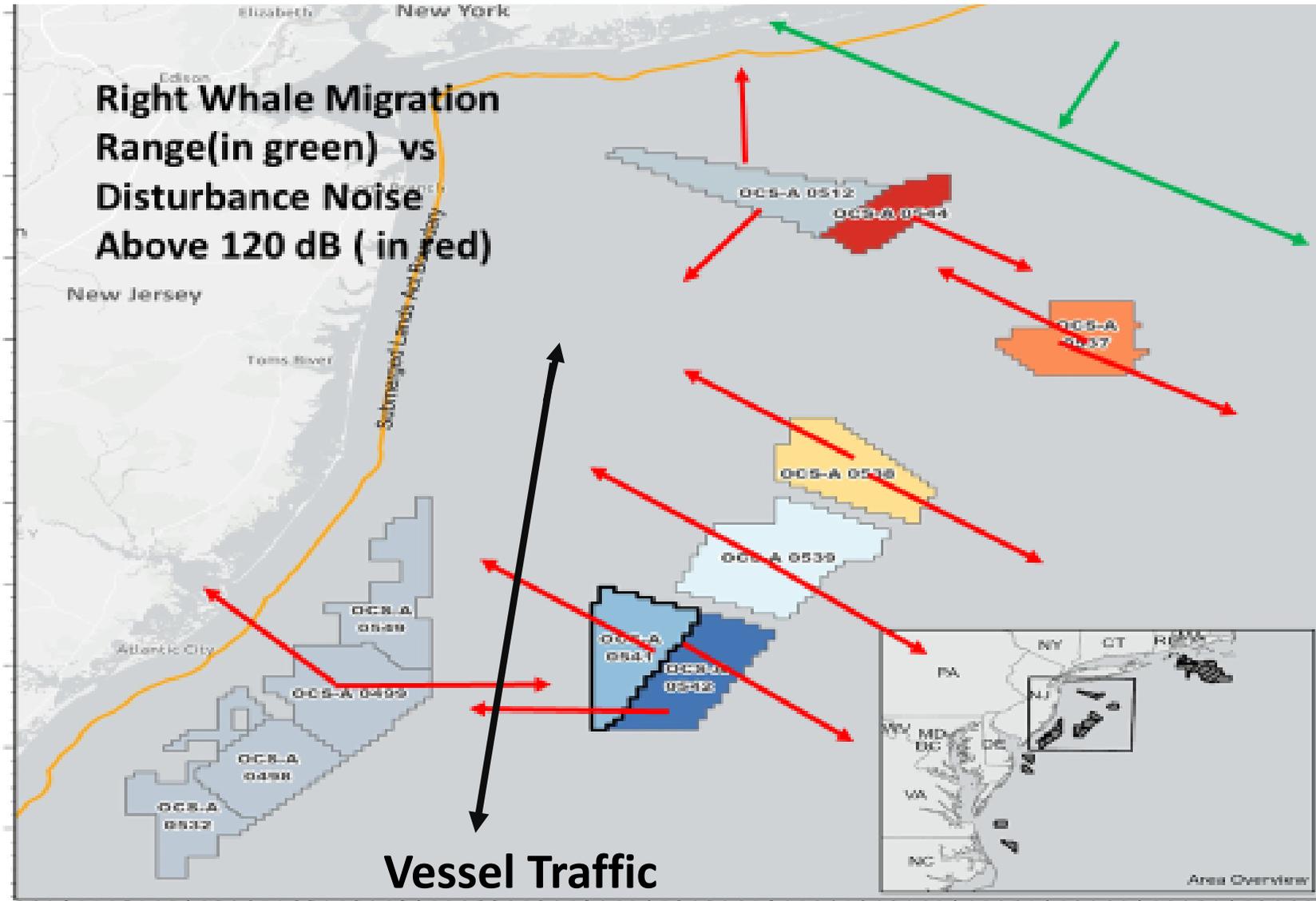
Small Turbine

Noise = Large  
Turbine Noise

NARW Not  
Coming Any  
More

Can't hear well  
at Low  
Frequencies

Disturbance  
Loss: 15 dB/0.35 dB/km  
Not a Problem



**NEW YORK BIGHT**  
**Commercial Wind Leases**

Lease Number with Company Name

- OCS-A 0537 - Empire Offshore Wind, LLC
- OCS-A 0538 - Attentive Energy LLC
- OCS-A 0539 - Community Offshore Wind, LLC
- OCS-A 0541 - Atlantic Shores Offshore Wind Right, LLC
- OCS-A 0542 - Atlantic Shores Offshore Wind Right, LLC
- OCS-A 0544 - Vineyard Mid-Atlantic LLC

Nearby Leases

- OCS-A 0512 - Empire Offshore Wind, LLC
- OCS-A 0538 - Atlantic Shores Offshore Wind Right, LLC
- OCS-A 0499 - Atlantic Shores Offshore Wind Projects 1 & 2, LLC's
- OCS-A 0498 - Ocean Wind LLC
- OCS-A 0532 - Orsted North America Inc.

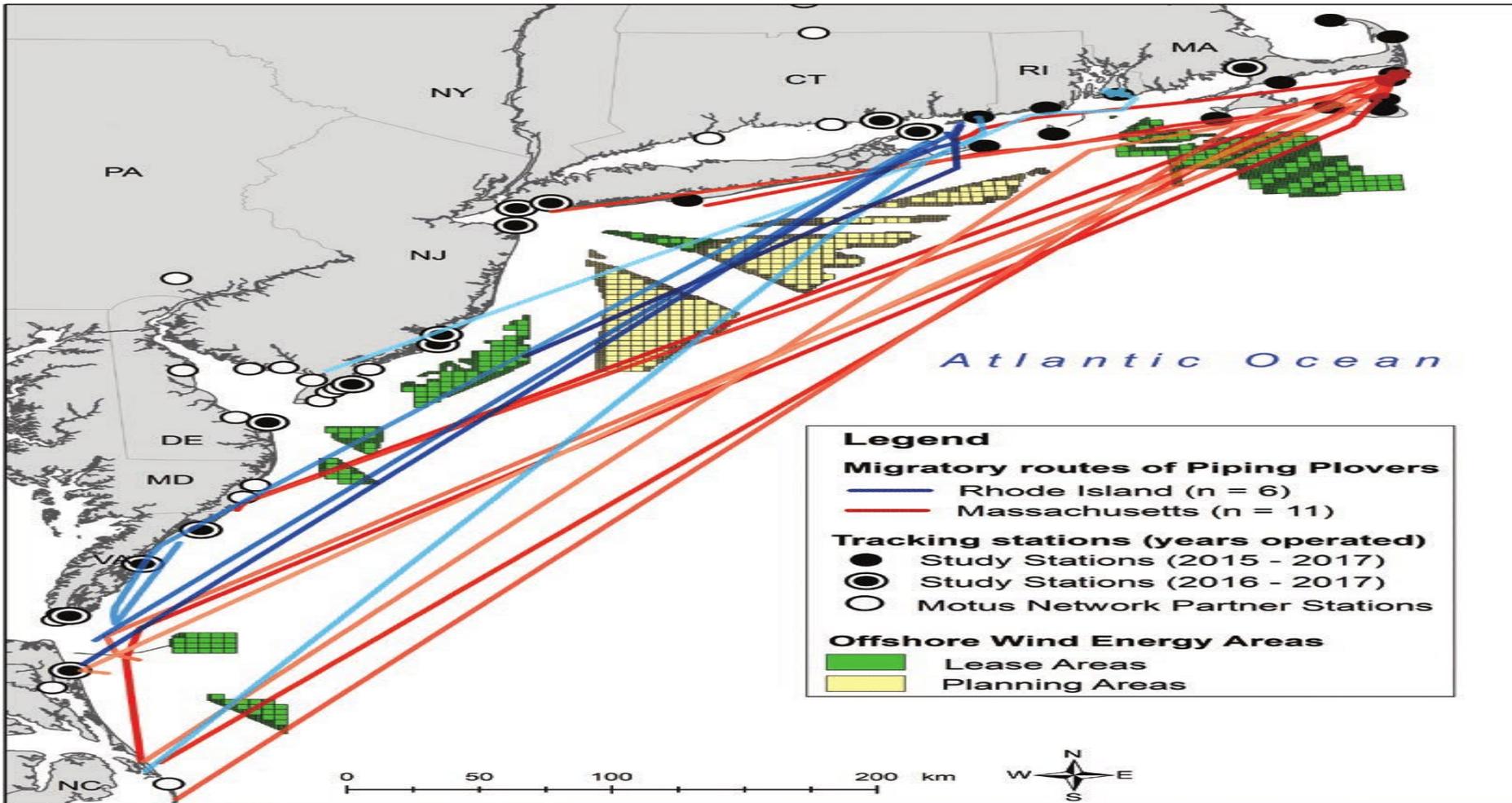
Submerged Lands Act Boundary (State/Federal)

**BOEM**  
BUREAU OF OCEAN ENERGY MANAGEMENT

0 5 10 20 NM  
0 10 20 40 km

Map Date: July 20, 2021  
Spatial Reference: NAD83  
Datum: North American 83  
Projection: Transverse Mercator

# The Piping Plover

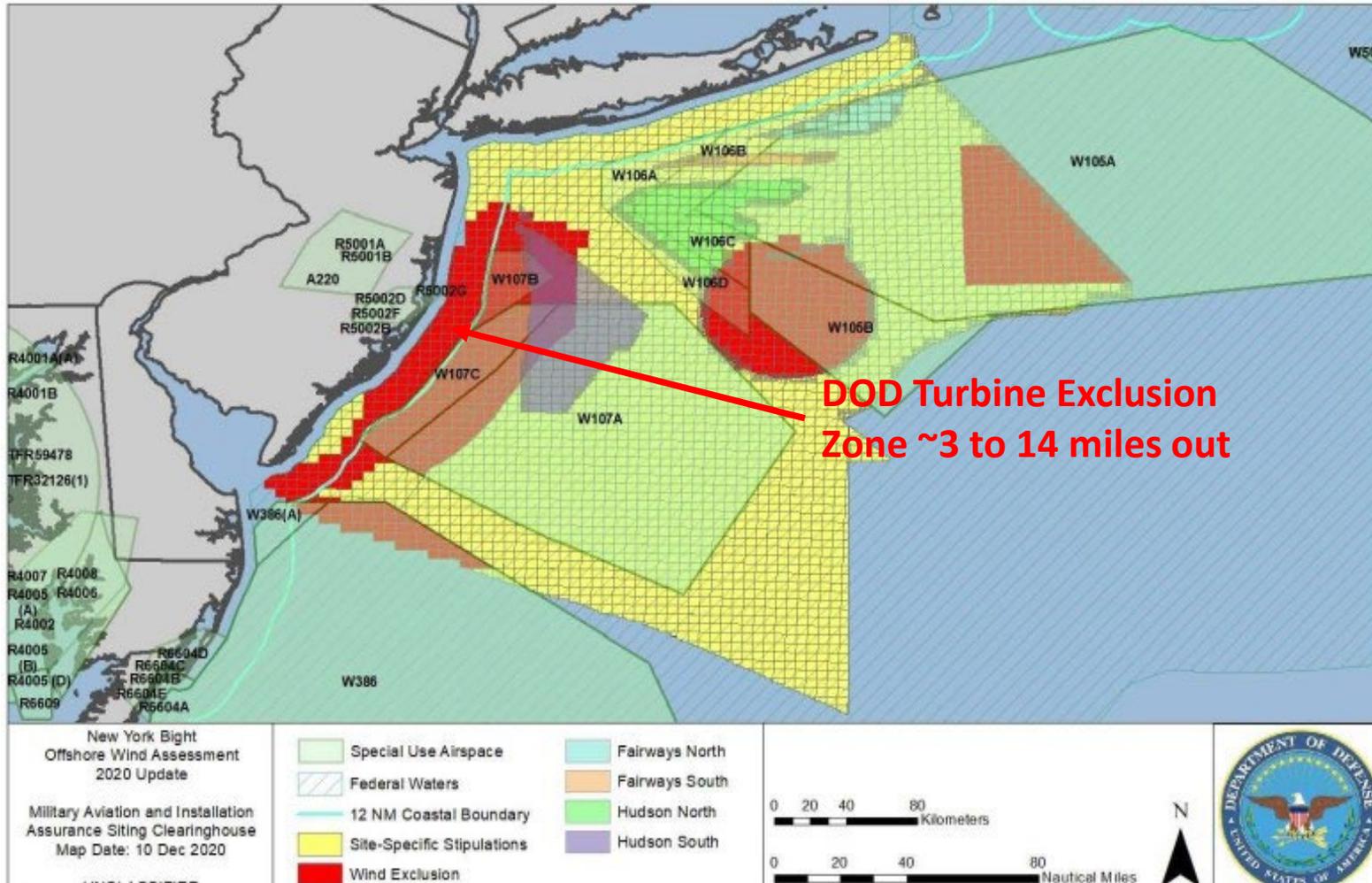




SUSTAINMENT

# Dept of the Navy Assessment

OASD (Sustainment)



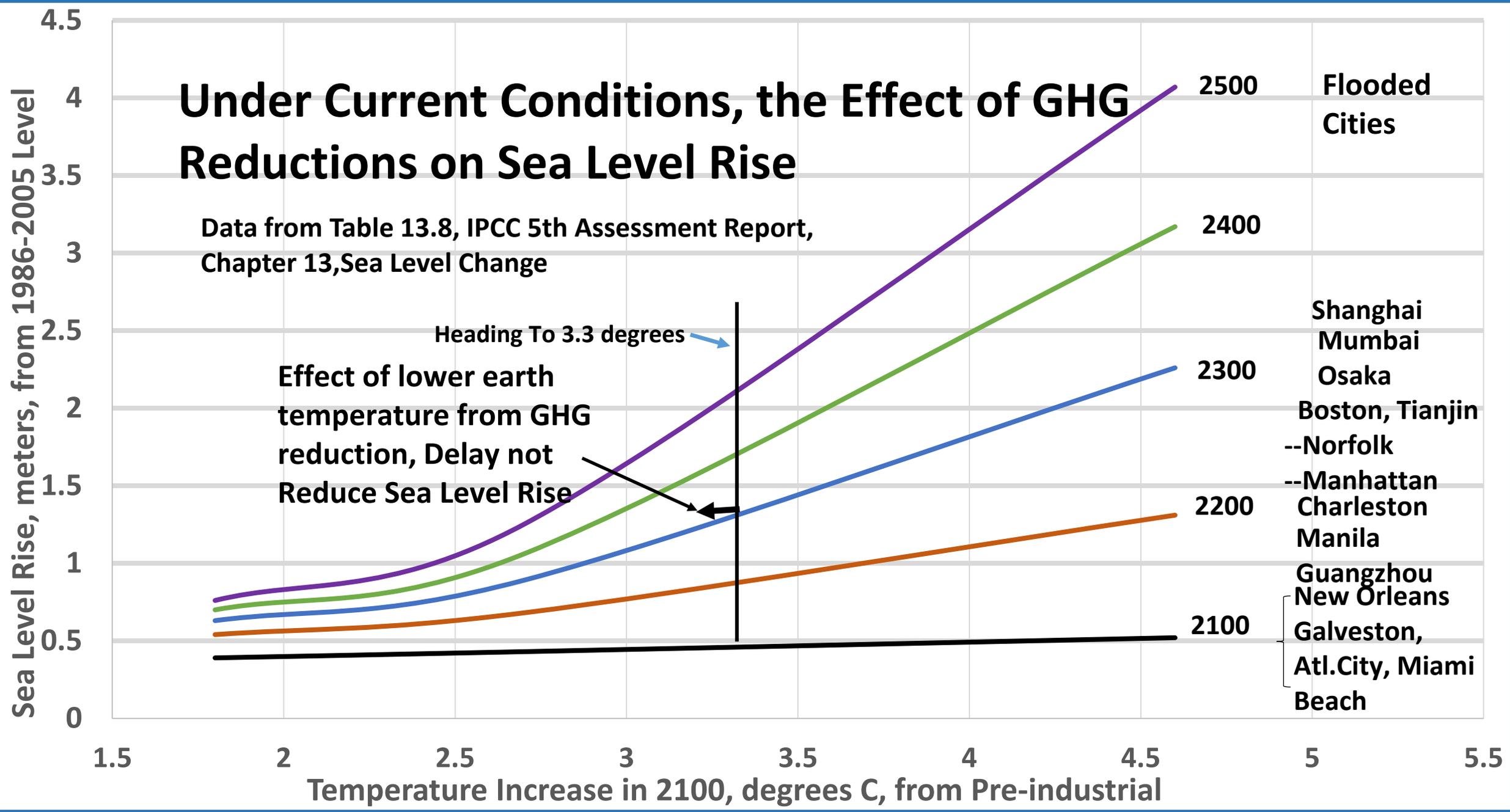
Potential Conflict with Outer Continental Shelf Lands Act-to protect national security 60

## Climate Change- Effect On

- **A Huge, Global Environmental, Energy Supply, Economic Problem, Opportunity for the World's Nations to Stop the Impact Closed-Stockholm, 1970**
- **With Warming Trend Now, Greenhouse Gas (GHG) Reductions Delay (for this project- a week) But Do Not Stop Sea Level Rise – Heat Transfer=Temp X Time.**
- **Per the EIS, Project Impact on Climate Change is “negligible”.**
- **On a \$ spent per ton of GHG removed, offshore wind is the most expensive option.**

# Under Current Conditions, the Effect of GHG Reductions on Sea Level Rise

Data from Table 13.8, IPCC 5th Assessment Report, Chapter 13, Sea Level Change



Heading To 3.3 degrees

Effect of lower earth temperature from GHG reduction, Delay not Reduce Sea Level Rise

- 2500 Flooded Cities
- 2400
- 2300 Shanghai, Mumbai, Osaka
- 2200 Boston, Tianjin, --Norfolk, --Manhattan, Charleston, Manila
- 2100 Guangzhou, New Orleans, Galveston, Atl. City, Miami Beach

## Save LBI Lawsuits

Save LBI will be challenging the project under multiple laws;

- To protect marine mammals, under the Endangered Species Act and the Marine Mammal Protection Act.
- To protect the shore from airborne noise, under Noise Control & Nuisance law.
- To protect the environment, the entire EIS process under the National Environmental Policy Act.
- To prevent excessive electric bill increases to the entire State's residential, commercial and industrial sectors, the cost-benefit analysis under the State's Offshore Wind Energy Development Act
- To protect vessel navigation, fishing and national defense uses, under the Outer Continental Shelf Lands Act.
- To protect the coast, under the Coastal Zone Management Act
- To Protect the Brigantine National Wilderness Area, under the Clean Air Act.

Act Now    [SaveLBI.org](http://SaveLBI.org)

