

LBT10

Taxpayers Association

Long Beach Township



Cindy Zipf
Executive Director

*Information in this
presentation is as of
June 24, 2023*















\$38B

**Economic Value
of NJ Commercial
and Recreational Fishing
= \$2.5 billion annually**







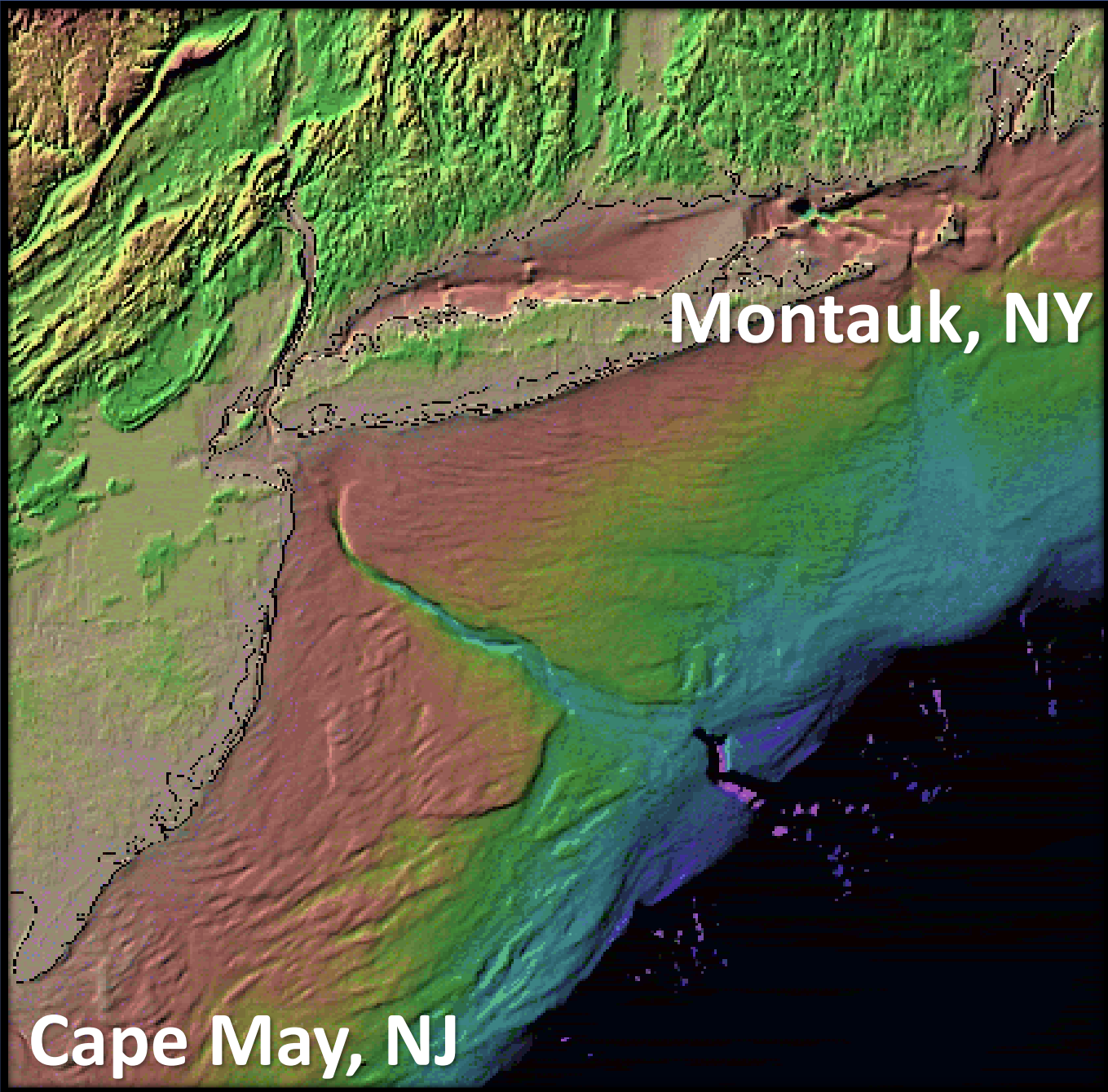
Climate Change Buffer

- 50% CO₂ emitted
- 90% of the excess heat

All provided...

...free of charge







NY/NJ
Bight









33



5





300





350





4





Photo by Joe Reynolds





14 Threatened and Endangered Species



15 ENDANGERED and threatened birds

NY/NJ 1984



Ocean Dumping



Tar balls on the beach.....





CASBURY PARK PRESS

Wednesday, May 2, 1984



D.W. Bennett (right), executive director of the American Littoral Society, speaks during press conference seeking support for a federal proposal to move ocean dumping, now 12 miles offshore, to a site 186 miles out at sea.

Coalition seeks support for ocean dumping ban

By WILLIAM CONROY
Press Staff Writer

MIDDLETOWN TOWNSHIP — Fishermen and environmentalists in a coalition for clean water said yesterday they prefer a ban of all ocean dumping of sewage sludge and dredge spoils.

Until that day comes, though, the members of Clean Ocean Action are trying to galvanize public support for what they view as an intermediate step: the proposal by the Environmental Protection Agency to move the dump site of sewage sludge, now 12 miles off Sea Bright, to a deeperwater area 186 miles off Cape May.

The coalition, an alliance of 33 business, environmental and civic organizations, many of which are from Monmouth and Ocean counties, held a press conference at the Bedford Seafood Cooperative to urge support of the EPA's proposal to move the dump site, announced Thursday. New York City officials have said they will challenge the EPA proposal administratively, and they are considering a court challenge.

The EPA estimates it will cost the city another \$4.4 million a year to comply with the proposed policy. The changes cannot become effective until after a series of hearings to get public input.

Nine municipal sewerage authorities use the 12-mile site, including six in northern New Jersey.

"Any body of water can only take so much pollution," said Robert Espinovich, here, a commercial fisherman and member of the Bedford Seafood Cooperative, a coalition member.

D.W. Bennett, Fair Haven, executive director of the American Littoral Society, said dumping is bad for public health, but for sport and commercial fishing, and bad science.

"It would be our firm wish that the dumpers would in a mass, happy, voluntary movement go to the 186-mile site," Bennett said.

But "we think they'll stall," he said.

"The major polluters... keep pointing the finger at other dumpers. It's a merry-go-round."

Edward Malasowski, Avon, gestured toward the other fishermen on the co-op dock at Compton's Creek.

"All these men here are what I would call an endangered species," Malasowski said.

Pollutants kill the smaller fish and the catch, Espinovich said.

Plans that larger fish feed on, decreasing the catch, Espinovich said.

In addition to designating an 100-square-mile deepwater sewage sludge site, the agency would make a 36-square-mile site slightly closer to shore the site for industrial wastes, Jack E. Ravan, assistant EPA administrator, has said.

These wastes are now dumped 12 miles off Long Branch.

The two new areas would be the sites for up to five years, when they would be reevaluated.

See COALITION SEEKS, page A18



Ocean Dumping
Capitol of the
World 1984









New York

New Jersey

Click to add text

Dump Site Free 2000



Offshore Oil & Gas Drilling a Threat



Offshore Drilling is Risky



NJ: Strongest Law in the Country



Liquefied Natural Gas (LNG) Proposals







Our Best Climate Change Buffer

- 50% CO₂ emitted
- 90% of the excess heat



A New Industry: Offshore Wind Energy off NY/NJ



**Offshore
Wind Energy
off NY/NJ**

*Clean Ocean Action supports
responsible and reasonable
OSW energy development*

Vineyard Wind FEIS

“Overall, it is anticipated that there would be no collective impact on global warming as a result of offshore wind projects, including the Proposed Action alone, though they may beneficially contribute to a broader combination of actions to reduce future impacts from climate change.”

BOEM: Vineyard Wind FEIS

The Race for the Bottom

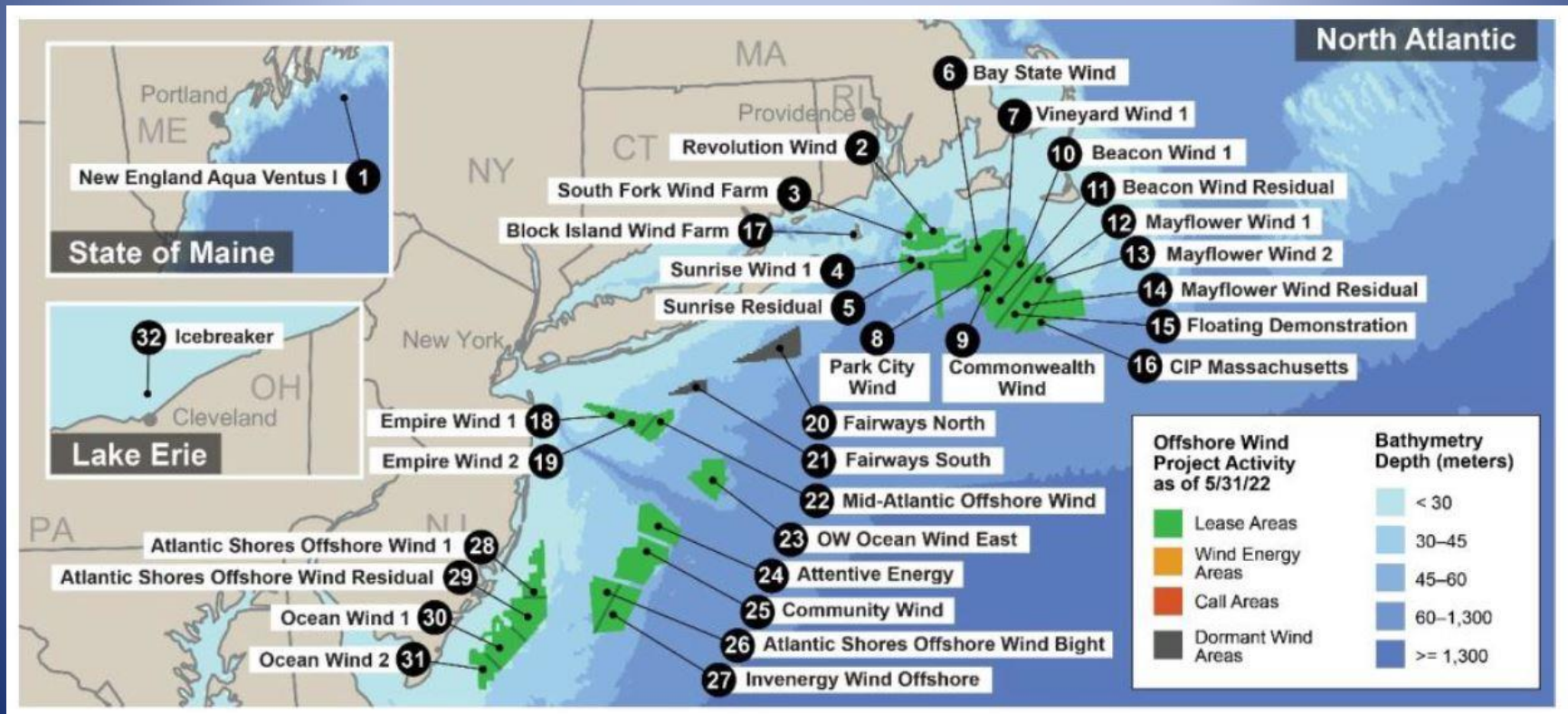
“2.4 Million Acres (plus 5.7 million more)

3,500 Turbines

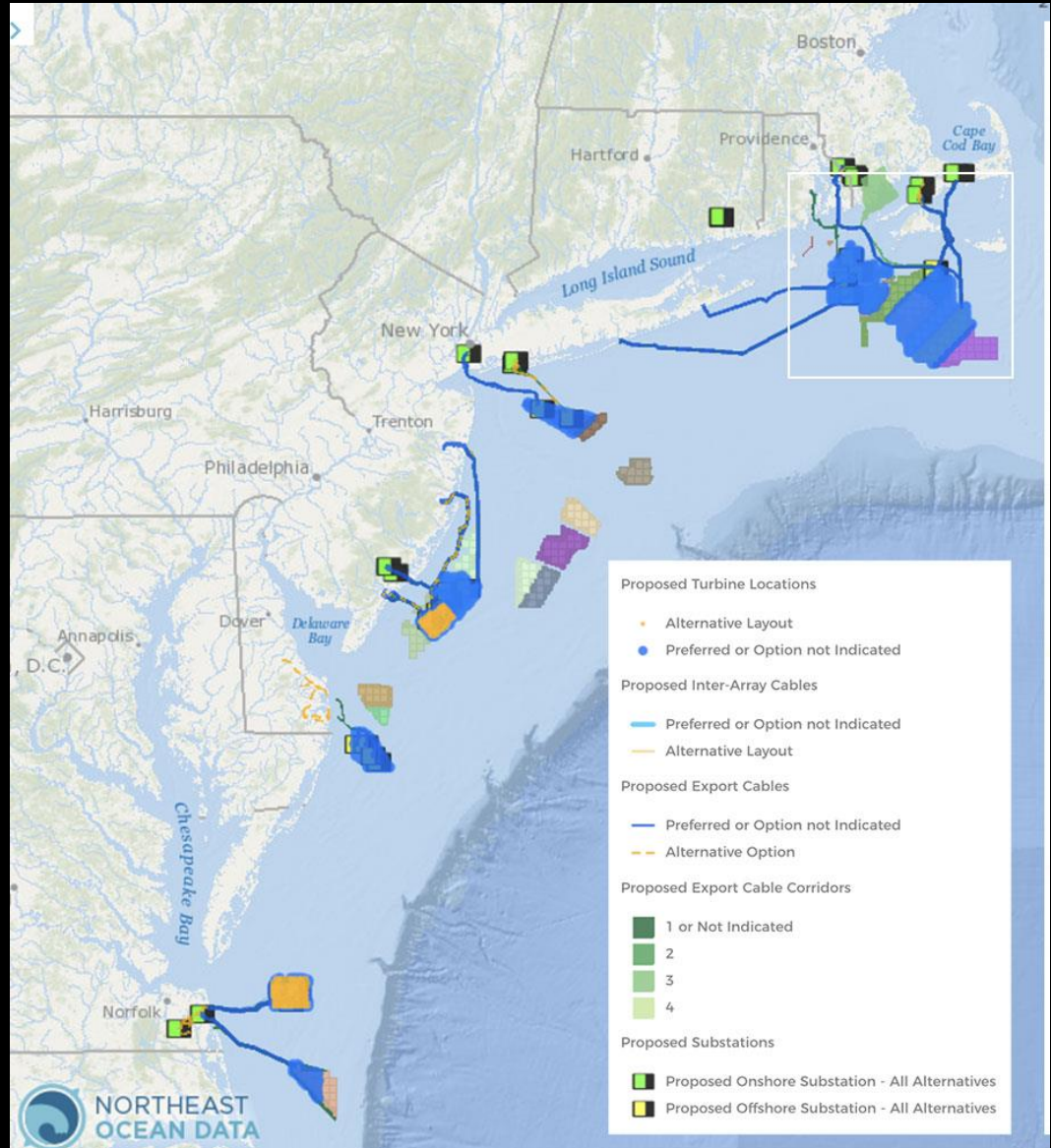
10,000 Miles of Cable”

NMFS

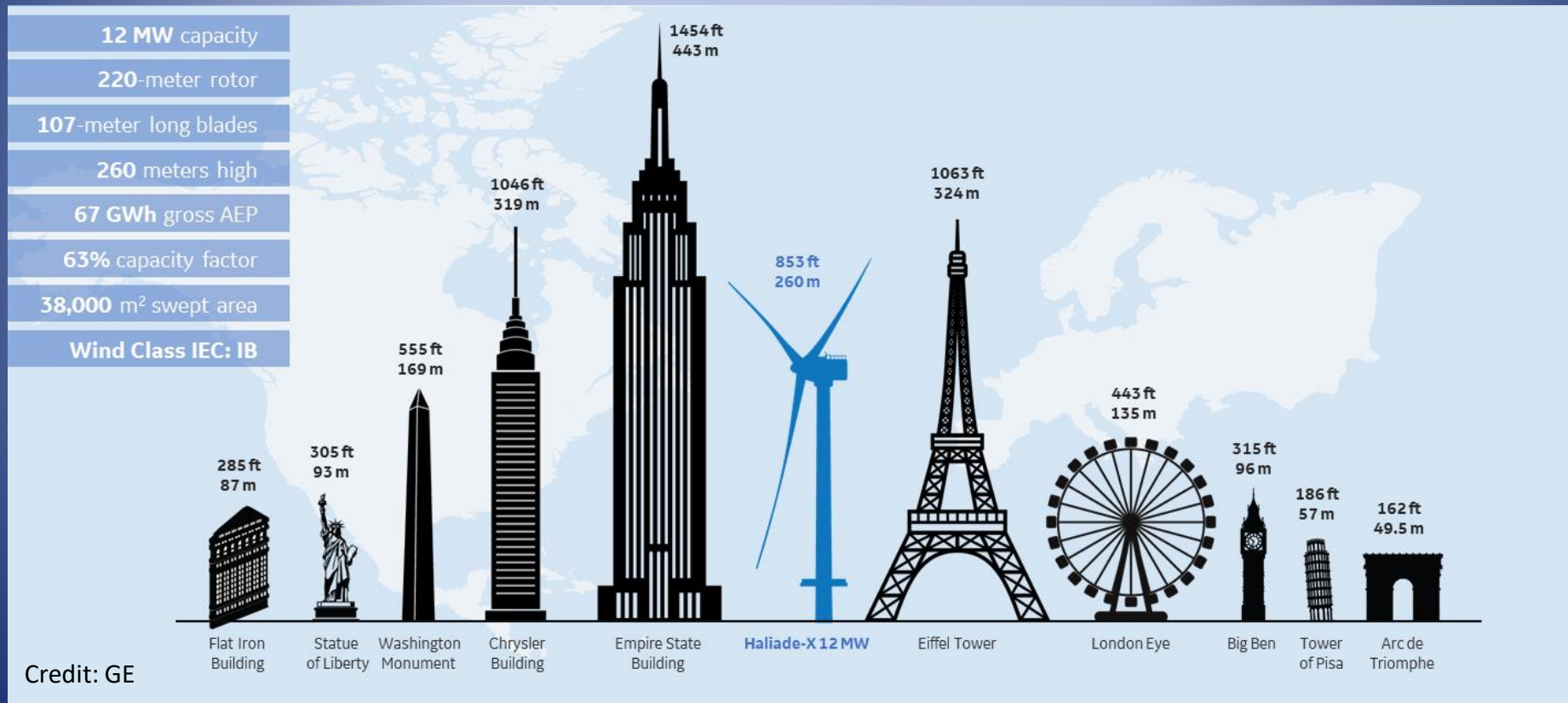
Plus— 50 transmission sub-stations at 30 stories high



Just the
beginning....



TURBINE SCALE:



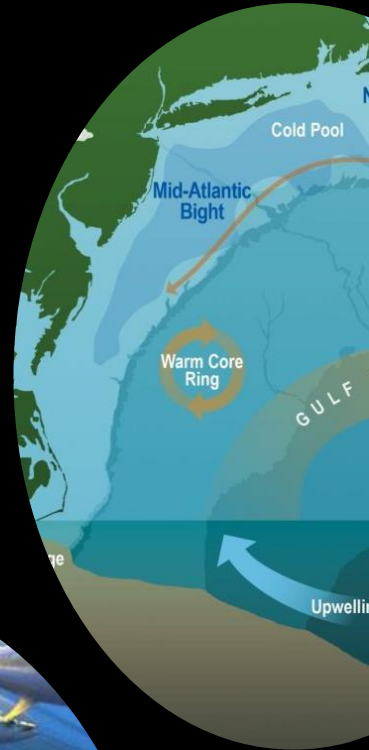
**BLADE Length
351 feet**



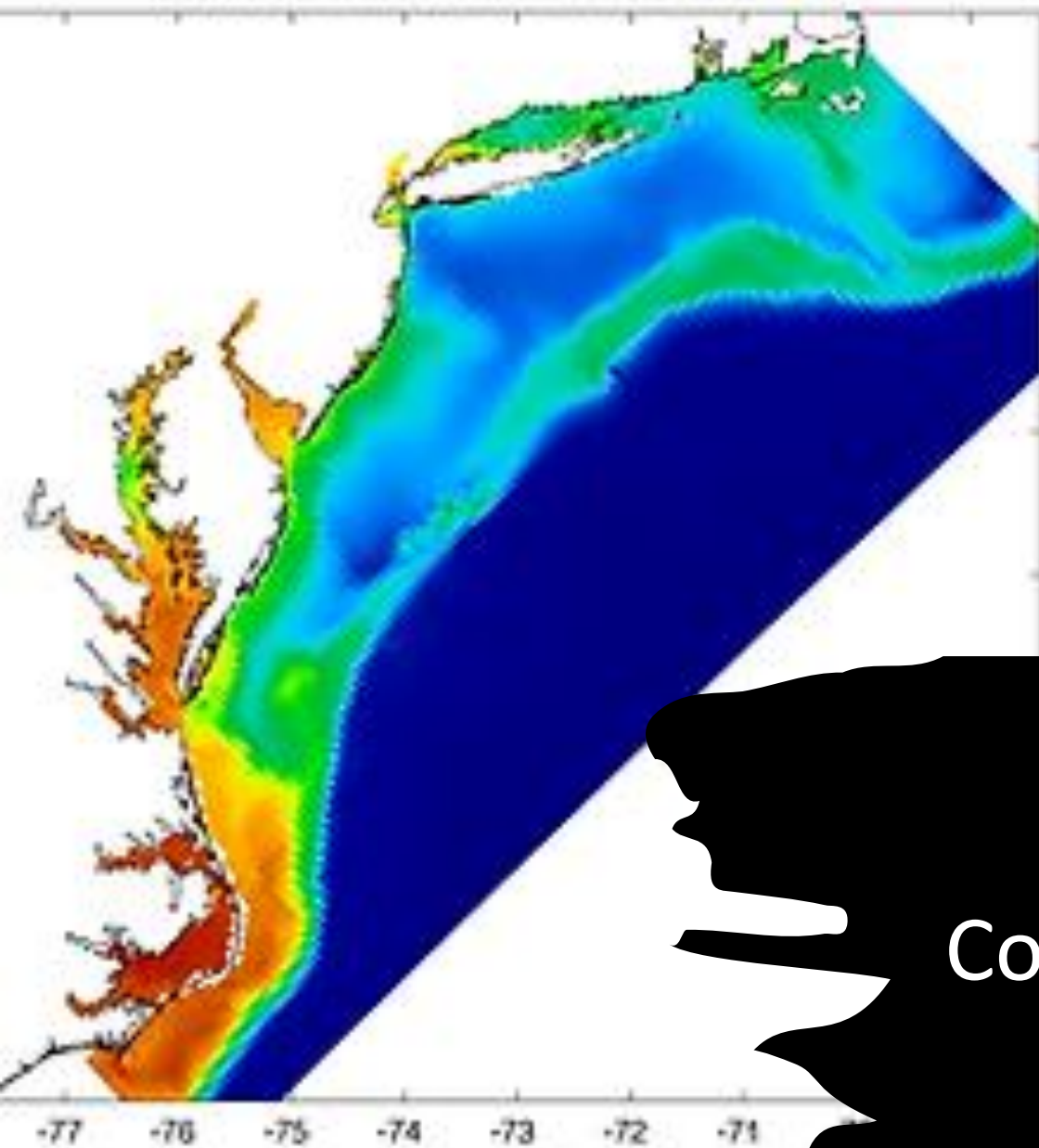
12 MW Turbine Hub

Too Little Research

Many marine scientists agree that little is known about the harm and cumulative impacts from this industrialization of the ocean.



Temperature 27-May-2013 12:00:00 Level 1



Cold Pool

- M
- U
- D
- D
- Y

- W
- A
- T
- E
- R
- S



— Sediment plume





Figure 20 Wake Effect Fog at Horns Rev 1, Denmark
Source: [Empire Fisheries comment to USCG-2020-0278](#)



Harassment of Marine Mammals

I Nearly extinct, North Atlantic Right Whale



Federal IHA Permits

63,820
Marine Mammals



5 More Projects are
pending for > 90,000
marine mammals

12 Dead Whales ...



23 dead dolphins

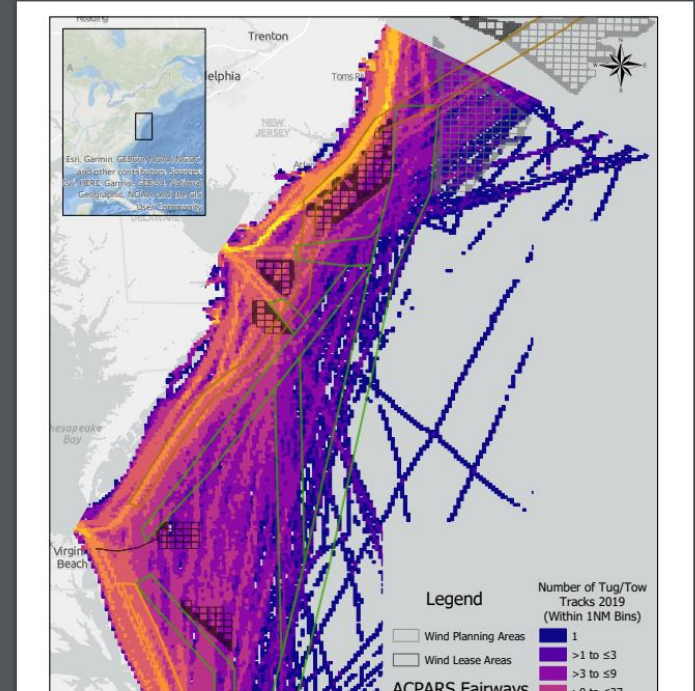
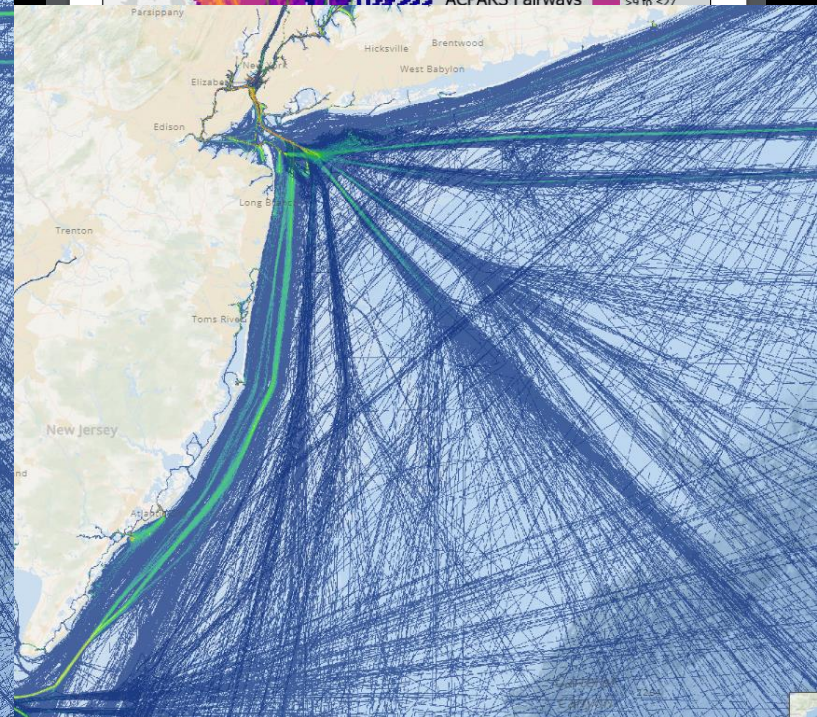
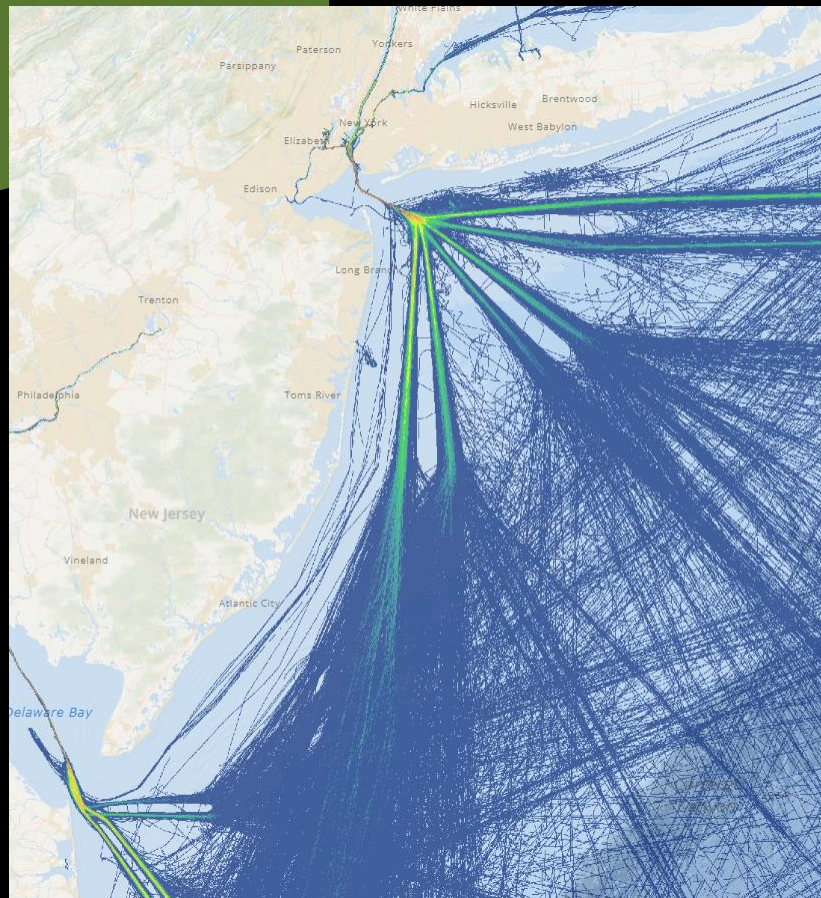


Credit NBC Philadelphia



COA Photo

Shipping: Tankers, Tugs, Containers



11 Active Offshore Wind Preconstruction Development IHAs

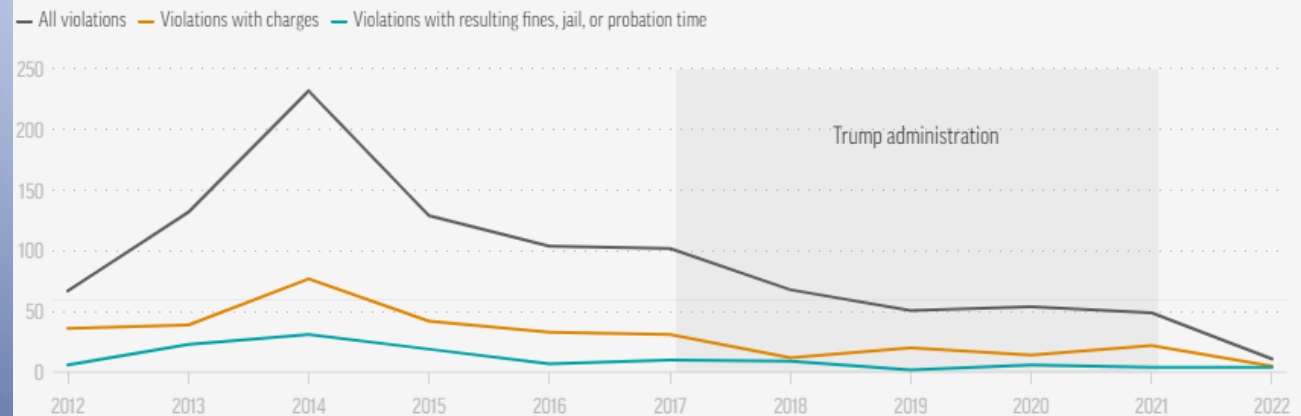


Hear, See, Speak No Evil ?



Criminal cases of deaths and injuries of eagles in sharp decline

Records of violations under the Eagle Protection Act have fallen in recent years, a decline which sharply accelerated under President Donald Trump. In the last 10 years, about one out of eight cases saw fines, jail, or probation time.

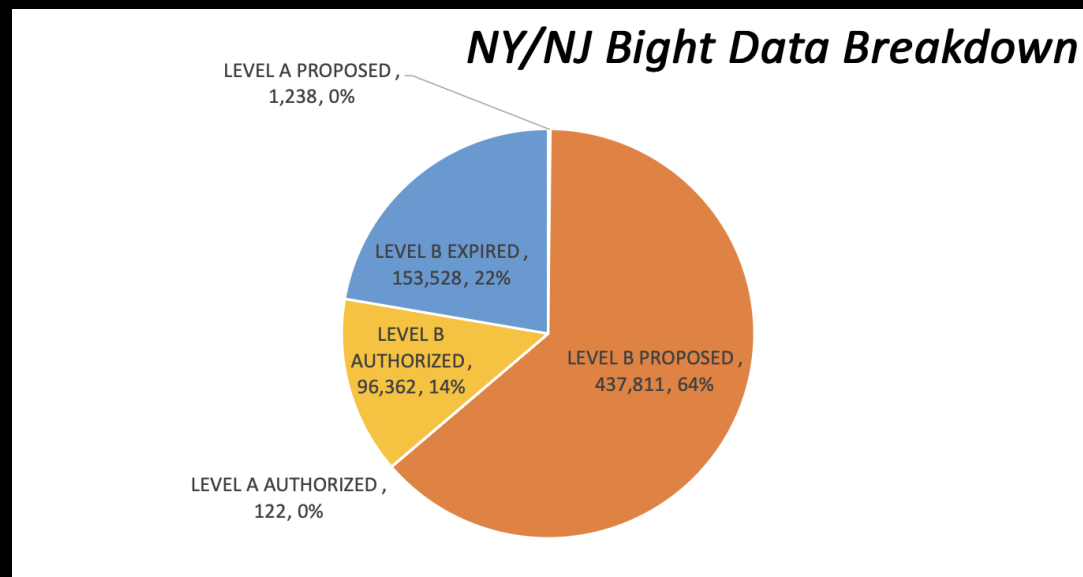


Source: U.S. Fish and Wildlife Service / Graphic: Camille Fassett

Federal Incidental Harassment Authorization (IHA) Marine Mammal Takes for All Offshore Wind Development Projects on the East Coast*

*Between April 24, 2014, and June 12, 2023

Take Category	NY/NJ Bight	Atlantic Coast
Level A Proposed Takes	1,238	1,306
Level B Proposed Takes	437,811	524,760
Level A Authorized Takes	122	122
Level B Authorized Takes	96,362	115,611
Level B Expired Takes	153,528	173,104
Totals	689,061	814,903



Impacts to Fish

Pile Driving Impacts:

- Can cause “fish kills.”
- Sound wave impacts to 50 miles away
- “Cumulative stress response” that disrupts the ability of fish to feed or spawn.
- Pile driving has the “potential to interrupt migration patterns” for fish.
- “Intense sound pressure waves” may result in “injury or mortality caused by rupturing swim bladders or by internal hemorrhaging,” the developers wrote in their approved construction plans.
- Fish with swim bladders Atlantic sturgeon, Atlantic butterfish, Atlantic mackerel, black sea bass, bluefish, haddock, monkfish, ocean pout, red hake, scup, bluefin tuna, yellowfin tuna, striped bass, tautog) ASS Appendix II J-2



NMFS

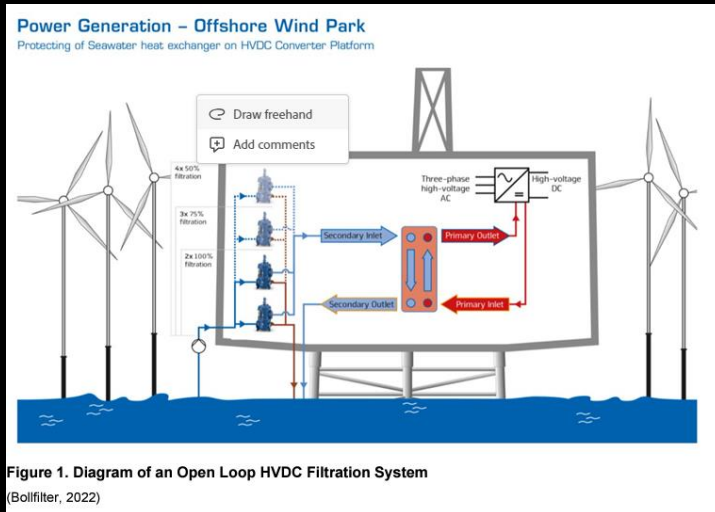
- “We’re building this ship as we’re sailing it,” NMFS scientist Andrew Lipsky said last October at a conference on wind power. “When we don’t think through the science, we often get ourselves in trouble.”
- “It’s frustrating that there aren’t clear requirements to avoid an impact to these habitats,” said Michelle Bachman, a fishery analyst.
- “There isn’t much we have the ability to do.”
- BOEM approved the projects despite repeated warnings from the National Marine Fisheries Service about damage to the environment and the fishing industry.

Offshore Substations

- ~One per 50 turbines
- Up to 20+ stories high
- High Voltage cables
- Once through cooling systems.



Once Through Cooling System



7.8 MGD

90 degrees Fahrenheit

2.847 Billion/year

Draft US EPA NPDES permit Sunrise Wind

Large Carbon Footprint

Resources Needed for One Offshore Wind

- Concrete
- Steel – 120 to 180 tons
- Rare Earth Elements (incl. “conflict minerals”)
- Iron
- Fiberglass
- Polymers
- Aluminum
- Copper - 63,000 lbs. per WTG
- Zinc
- 28,000 gallons of fluids/WTG
 - (incl. hazardous materials)

Sulfur hexafluoride

- SF6 is the most potent known greenhouse gas.
- ~23,000 more potent than CO2
- SF6 atmospherically stable lifetime of 3,200 years.

Source USEPA Region 2

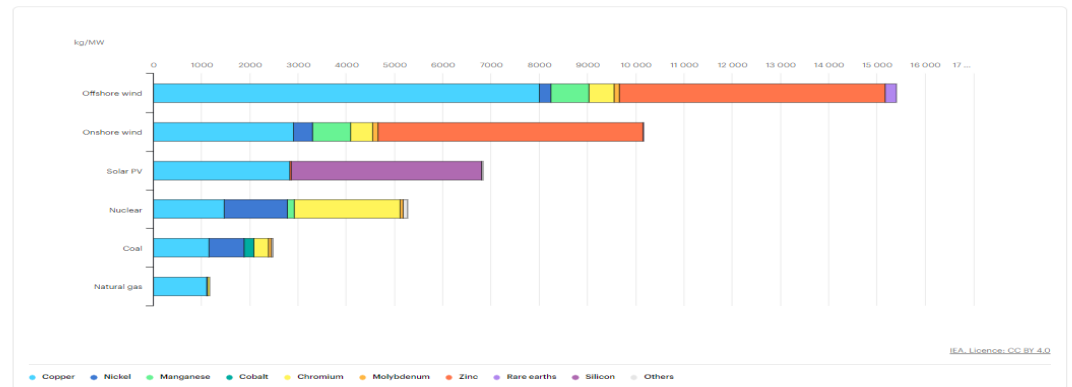
Minerals/Rare Earth Metals

Minerals used in clean energy technologies compared to other power generation sources

Last updated 5 May 2021

[Download chart](#)

[Cite](#) [Share](#)

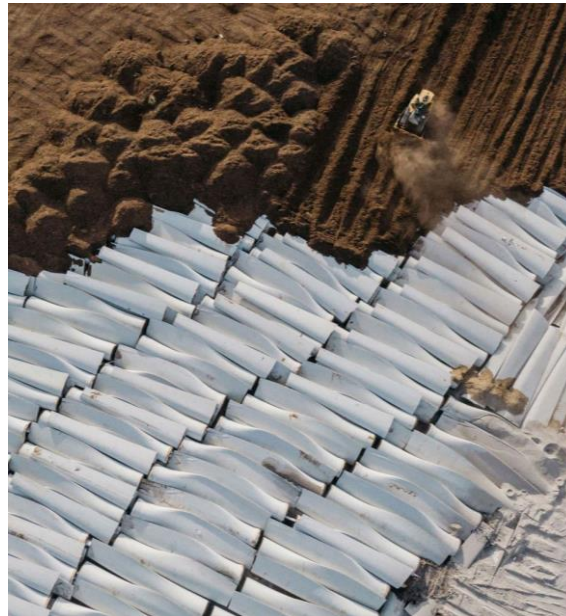


Appears in
[The Role of Critical Minerals in Clean Energy Transitions](#)

Notes
Steel and aluminium not included. The values for offshore wind and onshore wind are based on the direct-drive permanent magnet synchronous generator system (including array cables) and the doubly-fed induction generator system respectively. The values for coal and natural gas are based on ultra-supercritical plants and combined-cycle gas turbines. Actual consumption can vary by project depending on technology choice, project size and installation environment.

Source: I Energy A

- Waste
- Oil and fluids
- Operation & Maintenance
- Fuel
- Emissions

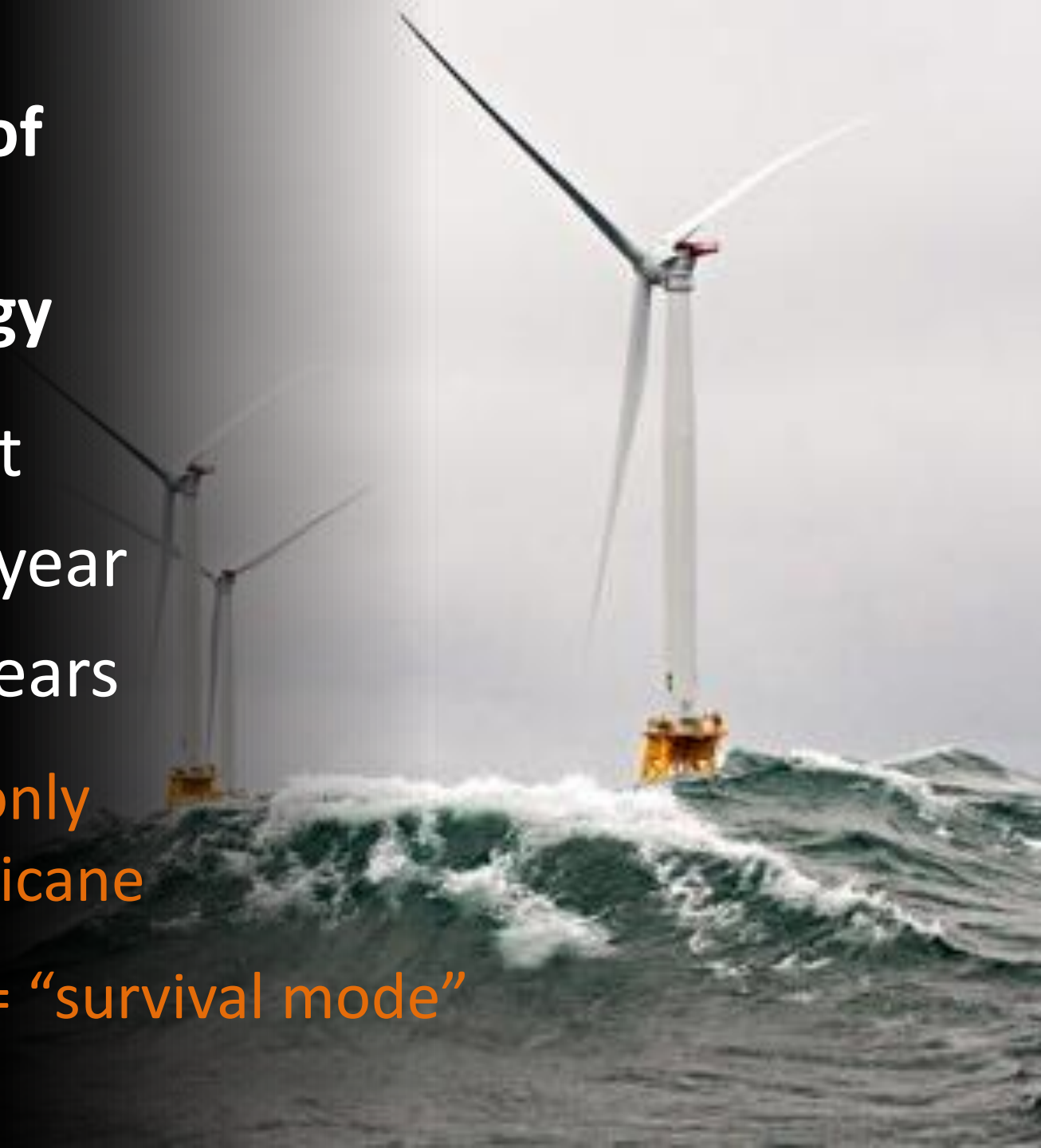


Efficiency of Offshore Wind Energy

- 55% efficient
- Lose 4.5% / year
- Last 20-25 years

Can withstand only
Category 3 Hurricane

55 mph Winds = “survival mode”



Too Little Transparency on Land

- Onshore impacts unknown
- Need to build ships, ports, construction facilities
- 2021 NJ Law blocking towns rights to limit impacts



Empire Wind

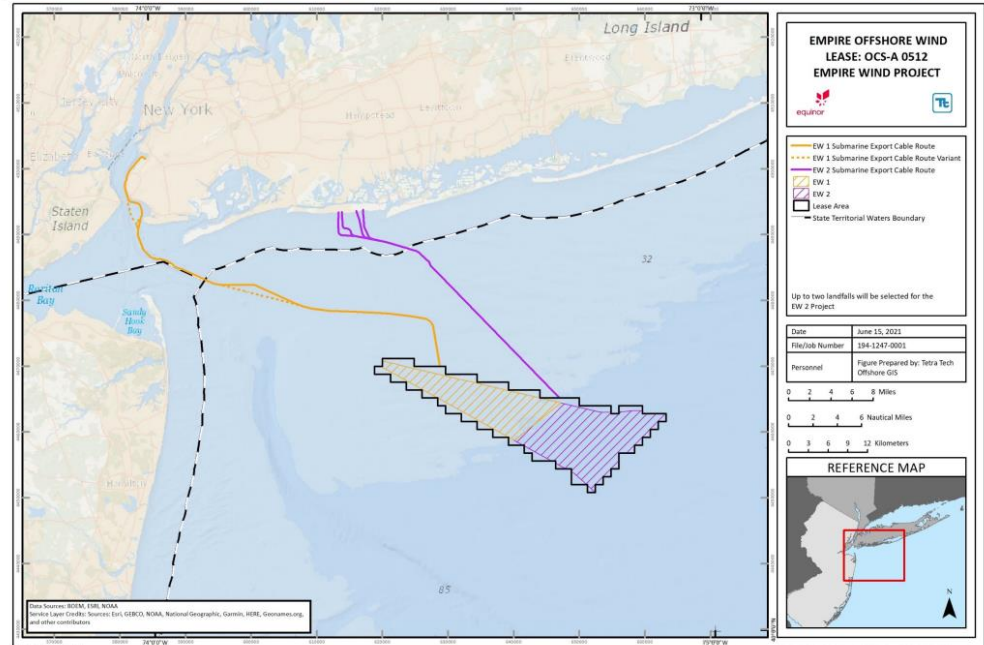
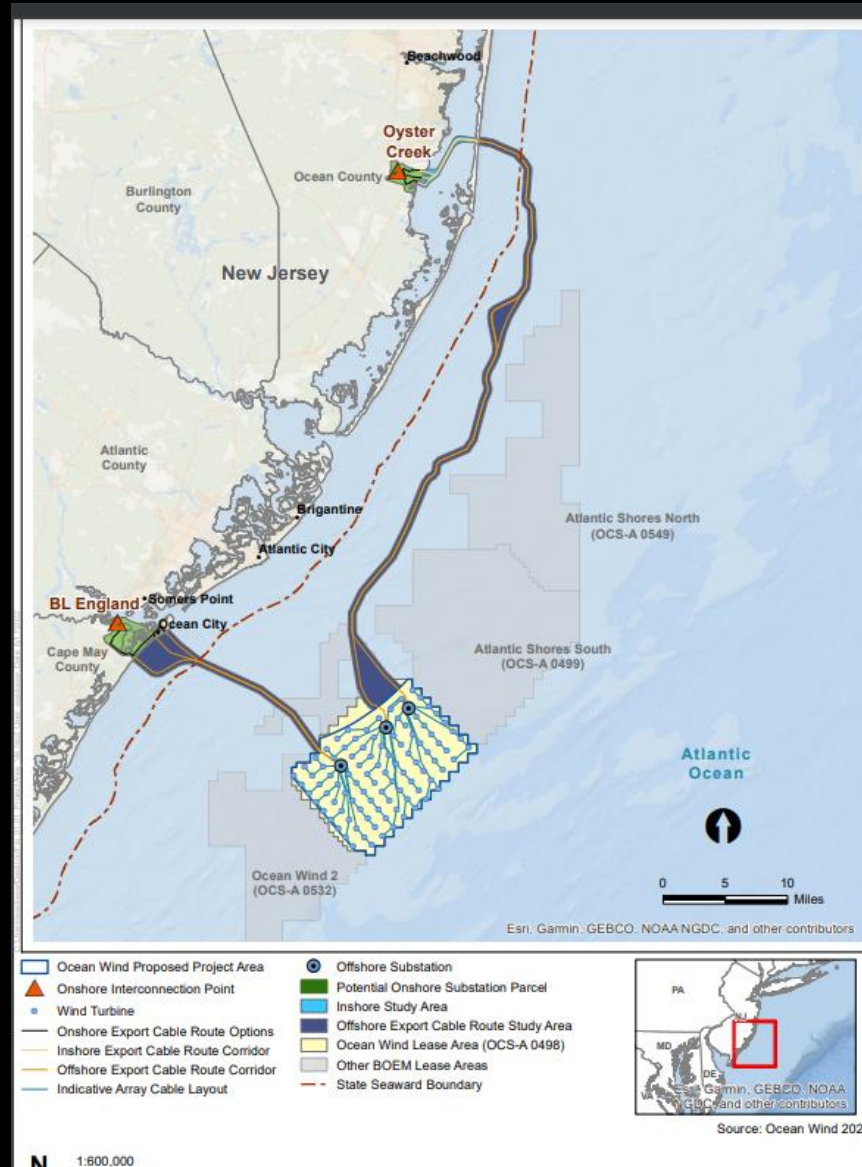


Figure ES-1 Project Overview (Lease Area and Submarine Export Cable Routes)

Ocean Wind 1



Atlantic Shores South (2 projects)

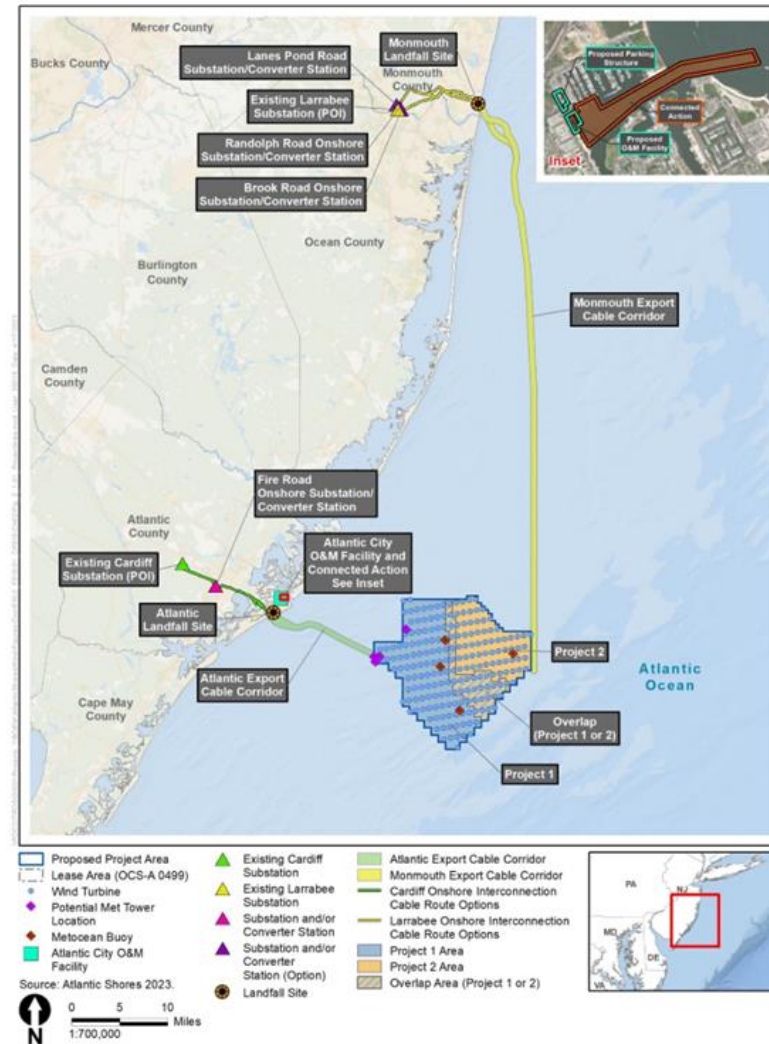


Figure E0-1. Atlantic Shores South Project

Atlantic
Shores
South (2
for 1)






Atlantic Shores South Ocean Power Plant

- Located **8.7 miles** off New Jersey
- **200** wind turbines, **102,124** acres of ocean
- **4** “large” offshore substations nearly **20**-stories high, OR **10** offshore substations over **16** stories high
- Potential for “**once-through**” **cooling systems** that will **discharge billions of gallons of hot water into ocean per day.**
- **2** onshore substations in Howell and Egg Harbor Townships
- **8** transmission cables with landfall in Atlantic City and/or Sea Girt, New Jersey
- **1,025 miles of high voltage cables emitting electromagnetic fields and heat into the seafloor and ocean**
- Permanent & temporary meteorological stations & buoys
- Project 1 proposes to produce 1,510 MW. The MW for Project 2 has not been determined.

Vineyard Wind FEIS

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BOEM: Vineyard Wind FEIS

An aerial photograph of an offshore oil rig in the middle of a vast blue ocean under a clear sky. The rig is a complex of metal structures, including two tall derrick towers, a helipad, and various support platforms. The water is a deep blue, and the sky is a lighter blue with some wispy clouds.

Inflation Reduction Act Devil in the Details

- For 10 years BOEM is prohibiting from leasing OSW unless 60 million acres are offered for offshore oil gas for a total of 600 million acres
- Would > oil and gas by 75% over 10 years
- Opens US territories to Outer Continental Lands VI, Guam, PR
- In Debt Bill – Manchin Got a 300 mile pipeline crossing 1000 streams with no environmental review.

Energy Consumption

- USA - 103 quadrillion (Btu) per year
 - 17% of total world energy consumption
 - only 4% of the population
- NJ - 563 trillion Btu of total US
 - 127 million Btu per year – per home
- NJ Cost -- \$3,065 per year
 - among the highest in the country



Energy Waste: One Bitcoin

1,500 kilowatt hours =

- an average U.S. household over 13 years



- Or the annual use of Australia





**Too Much
Too FAST**

**Offshore Wind--Done Right
PREVENT and REDUCE HARM**

- Pilot scale project first -- Monopole and Floating options
- Full transparency of all *onshore* and offshore industrial needs
- True Cost Benefit Analysis
- Restore town rights to control onshore impacts to community
- Comprehensive, independent science & research
- Prioritize Energy efficiency & conservation
- On-land renewable alternatives: cheaper, faster, safer, now

Just the Beginning

More Ocean Industrialization

- Aquaculture on wind power plants
- Carbon sequestration injection
- Ocean mining

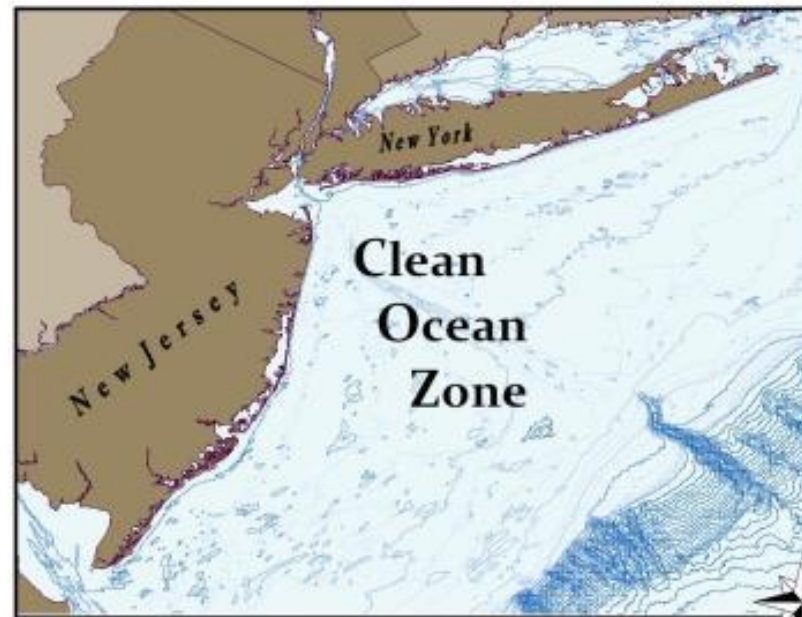
OCEAN CLIMATE ACTION PLAN

A REPORT BY THE OCEAN POLICY COMMITTEE
MARCH 2023

CleanOceanZone.org

Lock In Progress | Lock Out Pollution

CAPE MAY TO MONTAUK



Recent Good Bi-Partisan News

US Representative Chris Smith –
General Accountability Office Study

- Oregon Governor Tina Kotek –
called on Biden Administration pause
ALL offshore wind advancement
 - U.S. Sens. Ron Wyden and Jeff
Merkle
 - U.S. Reps. Val Hoyle and Suzanne
Bonamici



Questions?

Kari Martin
Advocacy Campaign Manager
KMartin@CleanOceanAction.org

Cindy Zipf
Executive Director
Zipf@CleanOceanAction.org

732-872-0111