New Jersey Offshore Wind

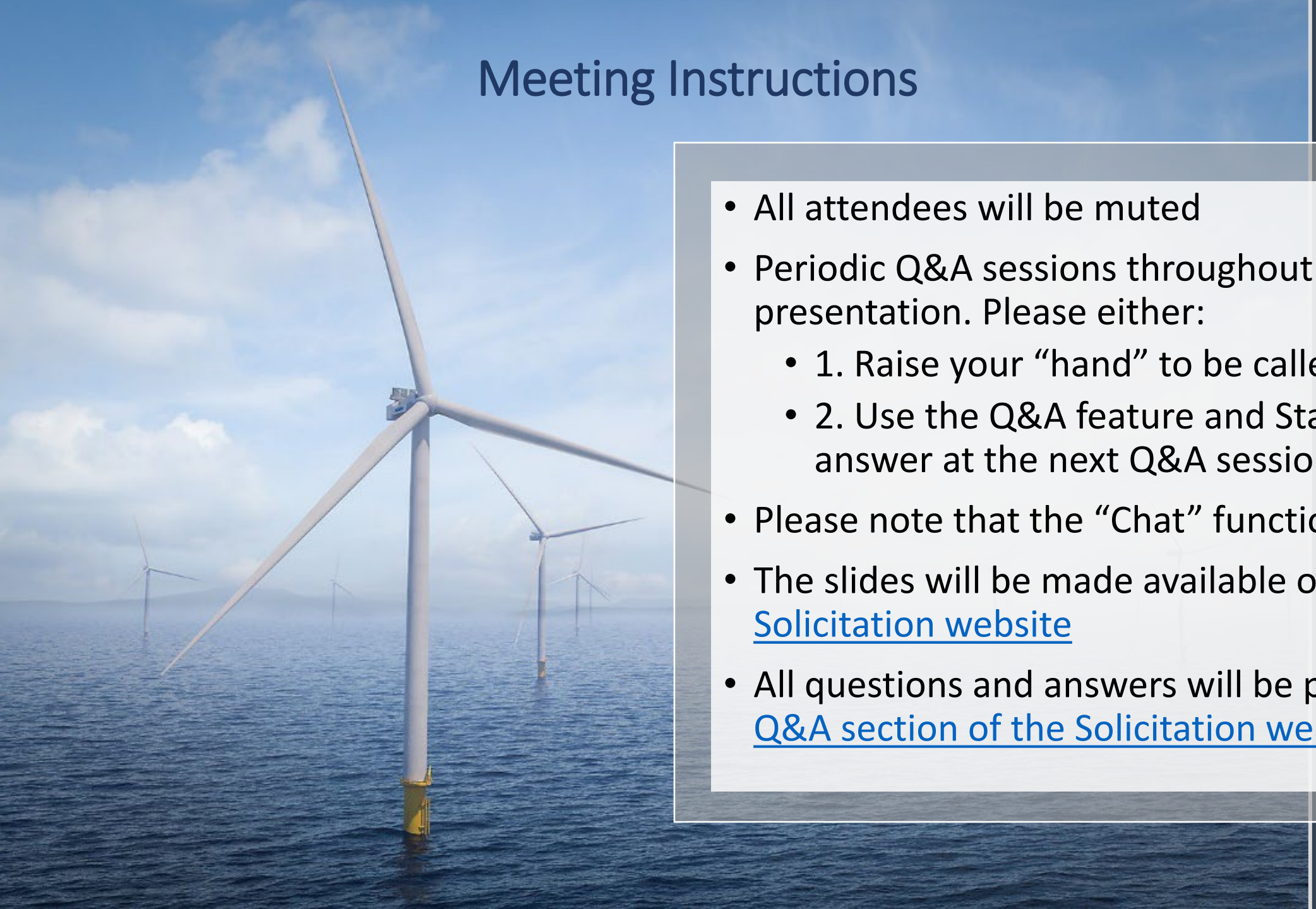
Bidders' Conference

March 24, 2023

New Jersey Board of Public Utilities
Third Solicitation

Follow NJBPU on social media:

Meeting Instructions



- All attendees will be muted
- Periodic Q&A sessions throughout the presentation. Please either:
  - 1. Raise your “hand” to be called on; or
  - 2. Use the Q&A feature and Staff will answer at the next Q&A session
- Please note that the “Chat” function is disabled
- The slides will be made available on the Solicitation website
- All questions and answers will be posted on the Q&A section of the Solicitation website

Agenda

- Welcome
  - BPU President Fiordaliso
  - Jim Ferris, Deputy Director, Division of Clean Energy
  - Andrea Hart, Senior Program Manager, Offshore Wind
- Overview of the Solicitation Guidance Document
- Department of Military and Veteran Affairs from the Sea Girt National Guard Training Center
  - Charles Appleby, Jill Priar, Paul Rumberger
- Mid-Atlantic Offshore Development for the Larrabee Collector Station
  - Matt Virant
- Next Steps & Website

Disclaimer

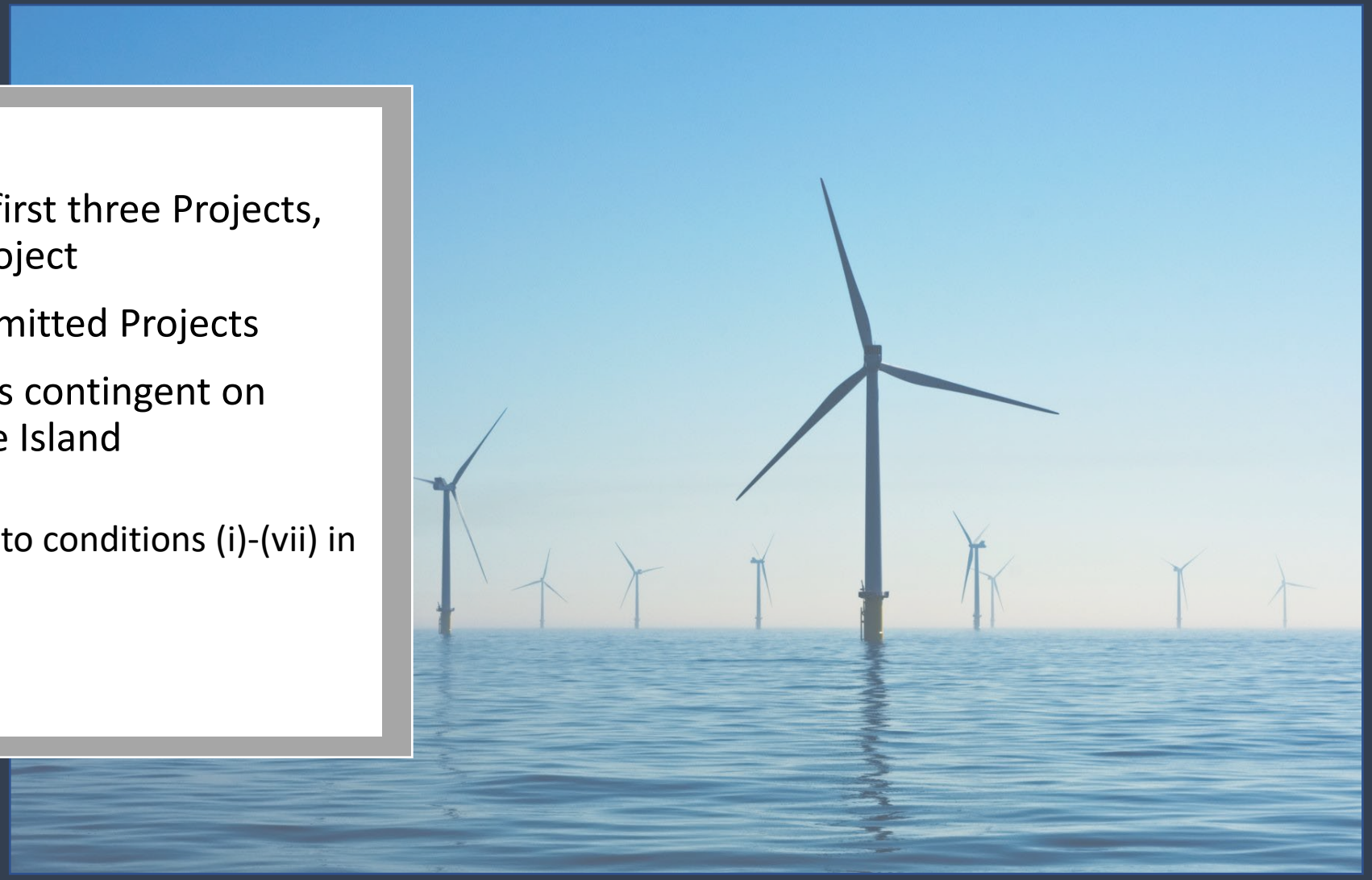
The material contained in this presentation is intended to provide only generally descriptive and summary information. The documents and Q&A filed with the BPU and posted on the Solicitation website are controlling. Any conflict between the information conveyed during this conference and what is provided on the website and filed with the BPU is unintentional. This presentation is not meant to constitute advice on whether or how to submit an Application.

New Jersey Offshore Wind 3rd Solicitation Schedule

Event	Date
Final SGD Released & Application Window Opened	**March 6, 2023**
Bidders' Conference	**March 24, 2023**
Deadline to Submit Questions	**May 12, 2023**
Notice of Intent to Respond Deadline	**May 23, 2023**
Applications Due	**June 23, 2023**
Administrative Completeness Determination Deadline	**July 23, 2023**
Board Decision	**December 2023**

General Application Requirements

- Application Fee: $500,000 for first three Projects, $25,000 for each additional Project
- No limit on the number of submitted Projects
- Applicants *may* submit Projects contingent on outcome of NYSERDA or Rhode Island procurements
  - Contingent Project is subject to conditions (i)-(vii) in SGD Section 1.3.



Application Requirements

- Applicant Information
- Project Description
- Energy Production Estimate
- Financial Analysis
- Project Financing Plan
- Documentation of Financial Incentives
- Project Revenue Plan and Strategy
- Economic Development Plan
- Stakeholder Engagement
- Environmental Protection Plan and Emissions Impacts
- Data Management and Availability Plan
- Offshore Wind Infrastructure Monitoring Plan
- Fisheries Protection Plan
- Project Timeline
- Interconnection Plan
- Permitting Plan
- O&M Plan
- Decommissioning Plan
- Cost-Benefit Analysis
- Prebuild Infrastructure Plan
- Offshore Transmission Network Preparation Requirements
- Performance Guarantee Proposal
- Application Form (Excel Workbook)

Q&A

General Application Requirements

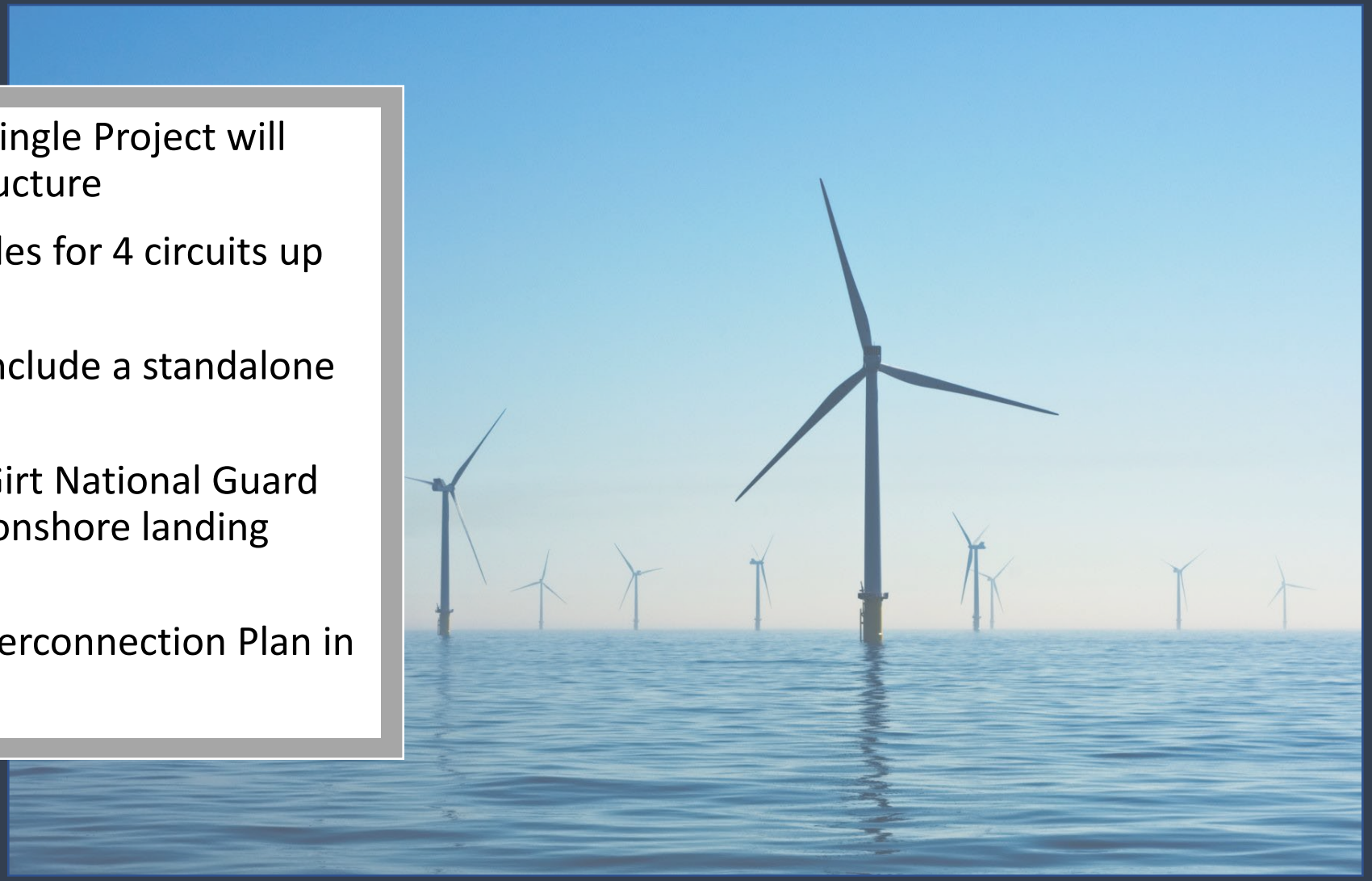
Project Configuration

Point of Interconnection

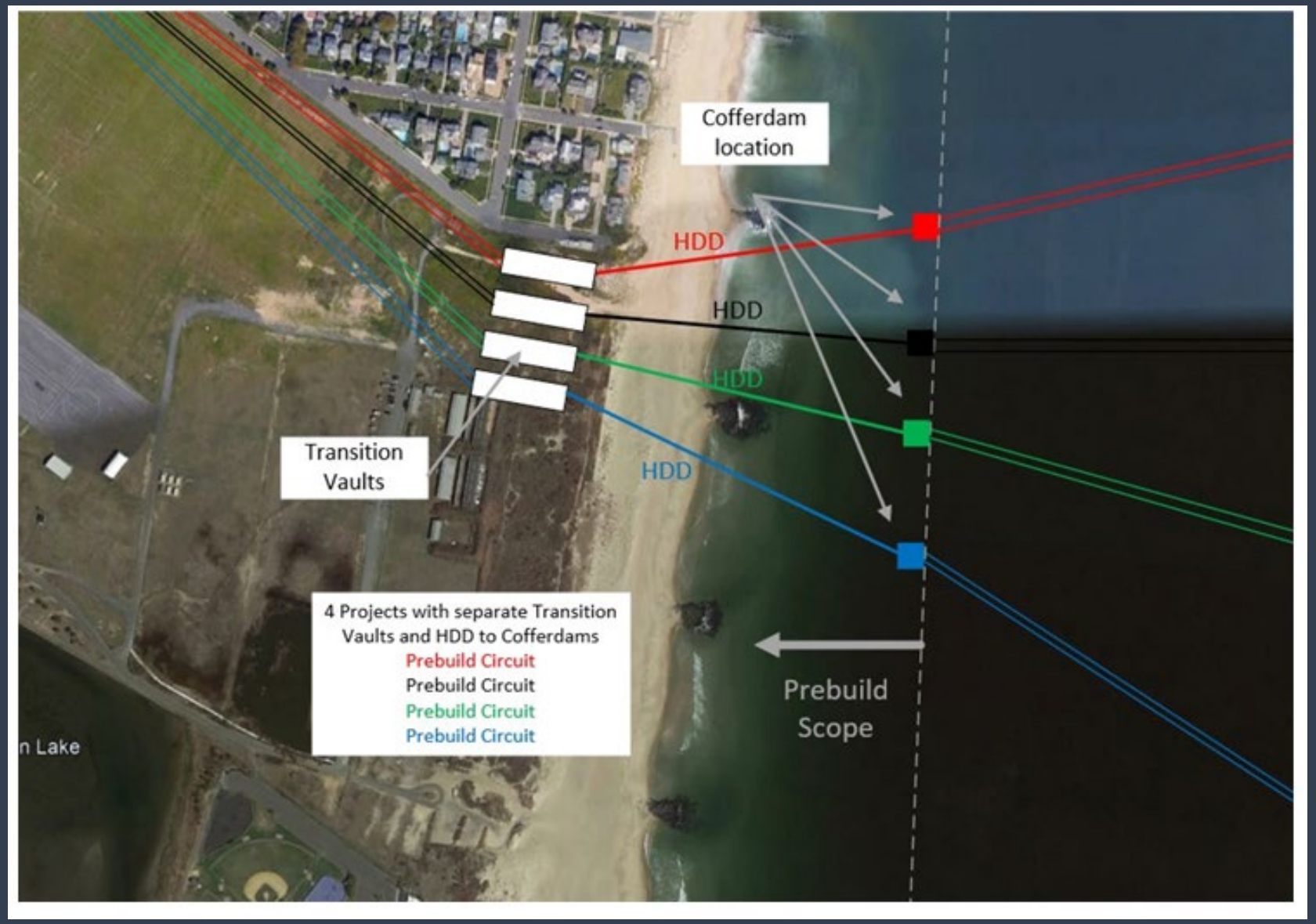
- LCS is the POI, unless otherwise specified
- LCS can accommodate up to 3 Projects:
  - 2 circuits, each having a capacity of up to 1,200 MW of SAA Capability
  - 1 circuit, with the capacity of up to 1,342 MW of SAA Capability
- See SGD Section 3.13

Prebuild Infrastructure

- Unless otherwise specified, a single Project will construct the Prebuild Infrastructure
- Must accommodate HVDC cables for 4 circuits up to 1,500 MW (each)
- Each submitted Project must include a standalone Prebuild Infrastructure
- All Projects must use the Sea Girt National Guard Training Center (NGTC) as the onshore landing point
- See Attachment 10 and the Interconnection Plan in SGD Section 3.13

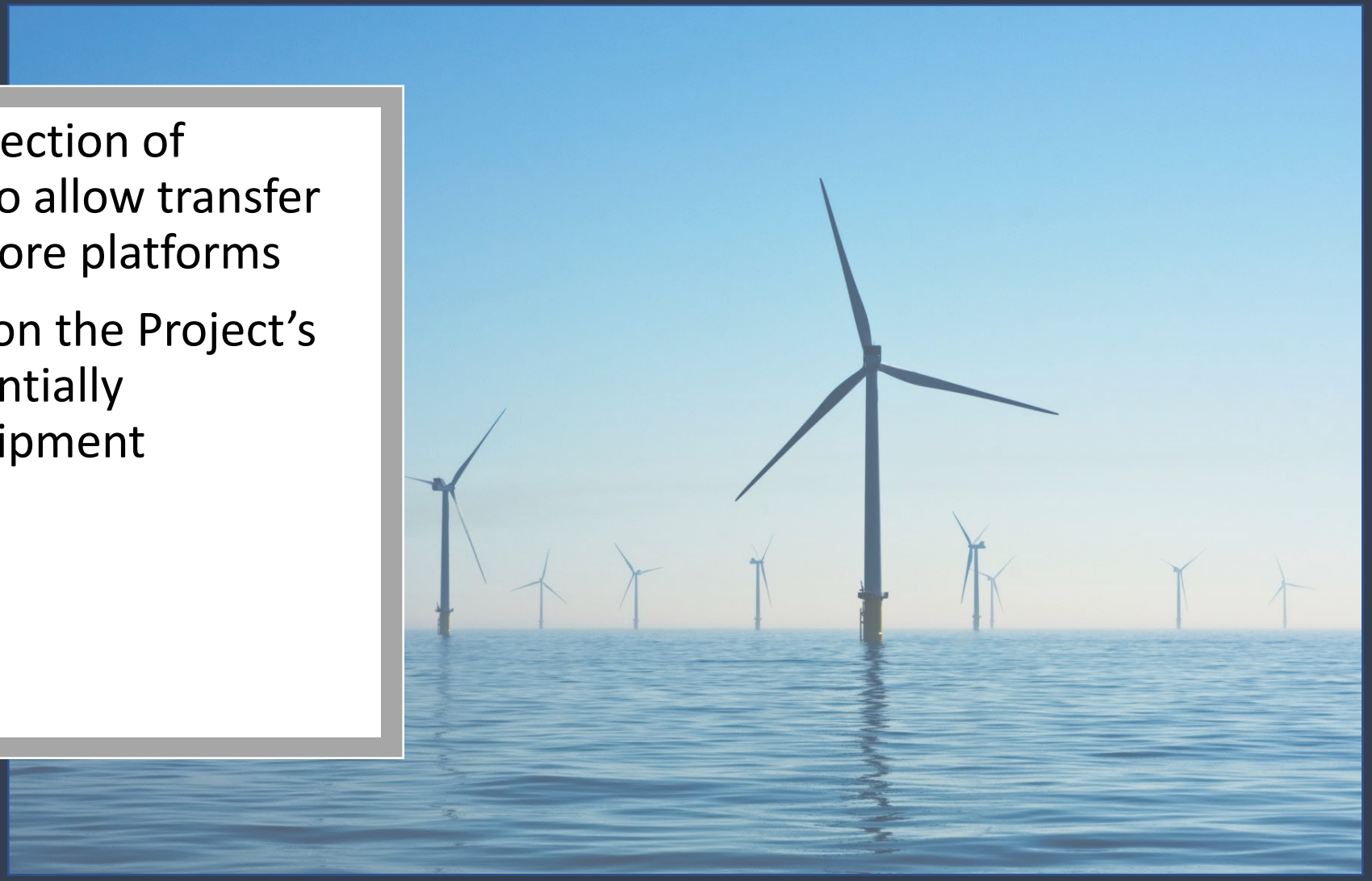


Illustrative Shoreline Prebuild Infrastructure



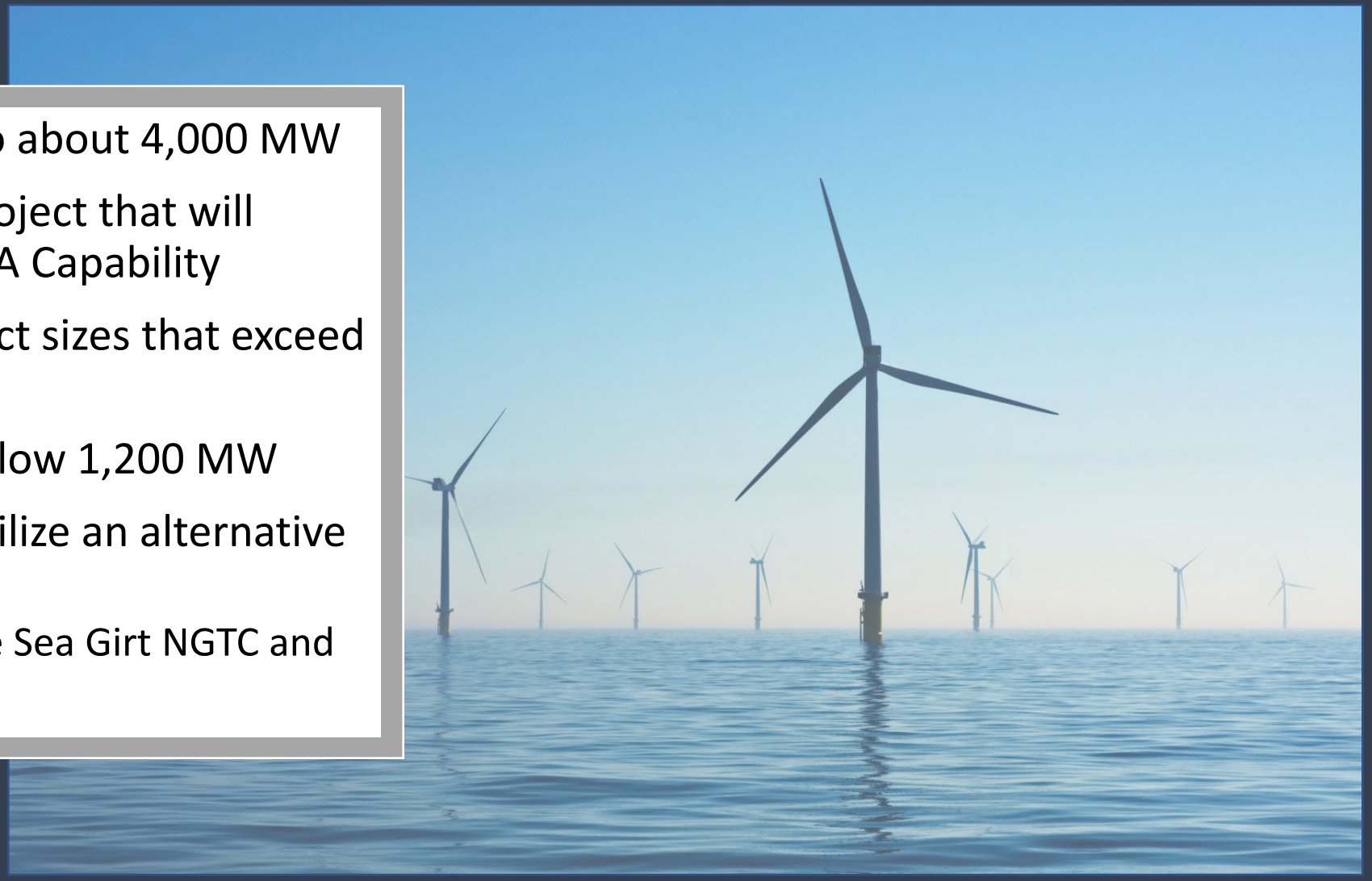
Offshore Transmission Network (OTN)

- The potential future connection of multiple OSW platforms to allow transfer of electricity among offshore platforms
- The reservation of space on the Project's offshore platform to potentially accommodate future equipment
- See Attachment 11



Project Sizing

- Approximately 1,200 MW to about 4,000 MW
- Must submit at least one Project that will utilize only 1,200 MW of SAA Capability
- Encouraged to submit Project sizes that exceed 1,200 MW
- May submit Project sizes below 1,200 MW
- May submit Projects that utilize an alternative POI
  - Must nevertheless use the Sea Girt NGTC and Prebuild Infrastructure



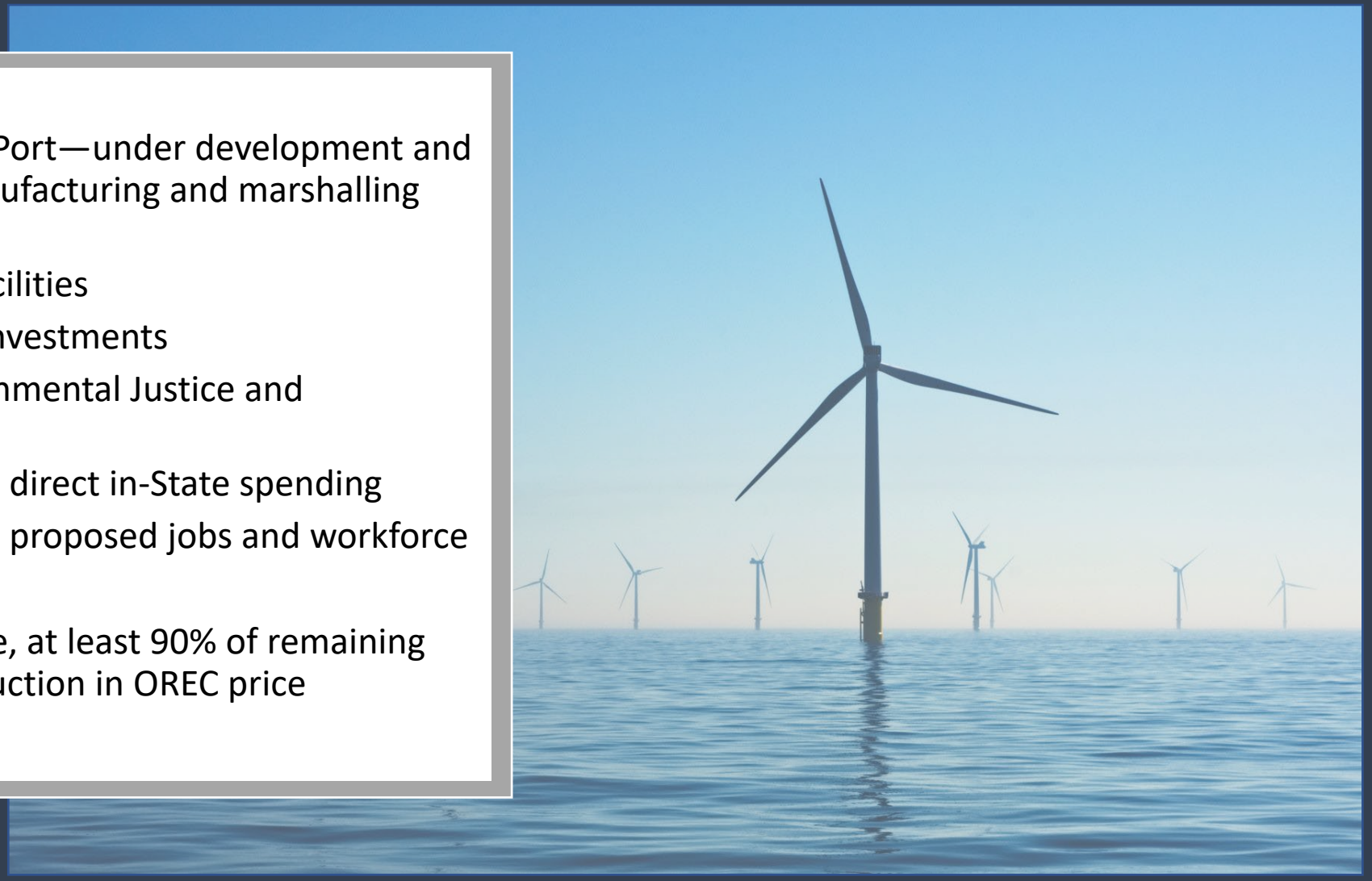
Q&A

- POI
- Prebuild Infrastructure
- OTN
- Project Sizing

Economic Development

Economic Development Plan

- Preferred Economic Benefits
  - Use of the New Jersey Wind Port—under development and has space for co-located manufacturing and marshalling facilities
  - New Tier 1 manufacturing facilities
  - Other in-State supply chain investments
  - Economic benefits for Environmental Justice and Overburdened Communities
  - Unconditional guarantees for direct in-State spending
  - Unconditional guarantees for proposed jobs and workforce development
- If in-state spending guarantees are, at least 90% of remaining shortfall must be applied to a reduction in OREC price
- See SGD Section 3.8



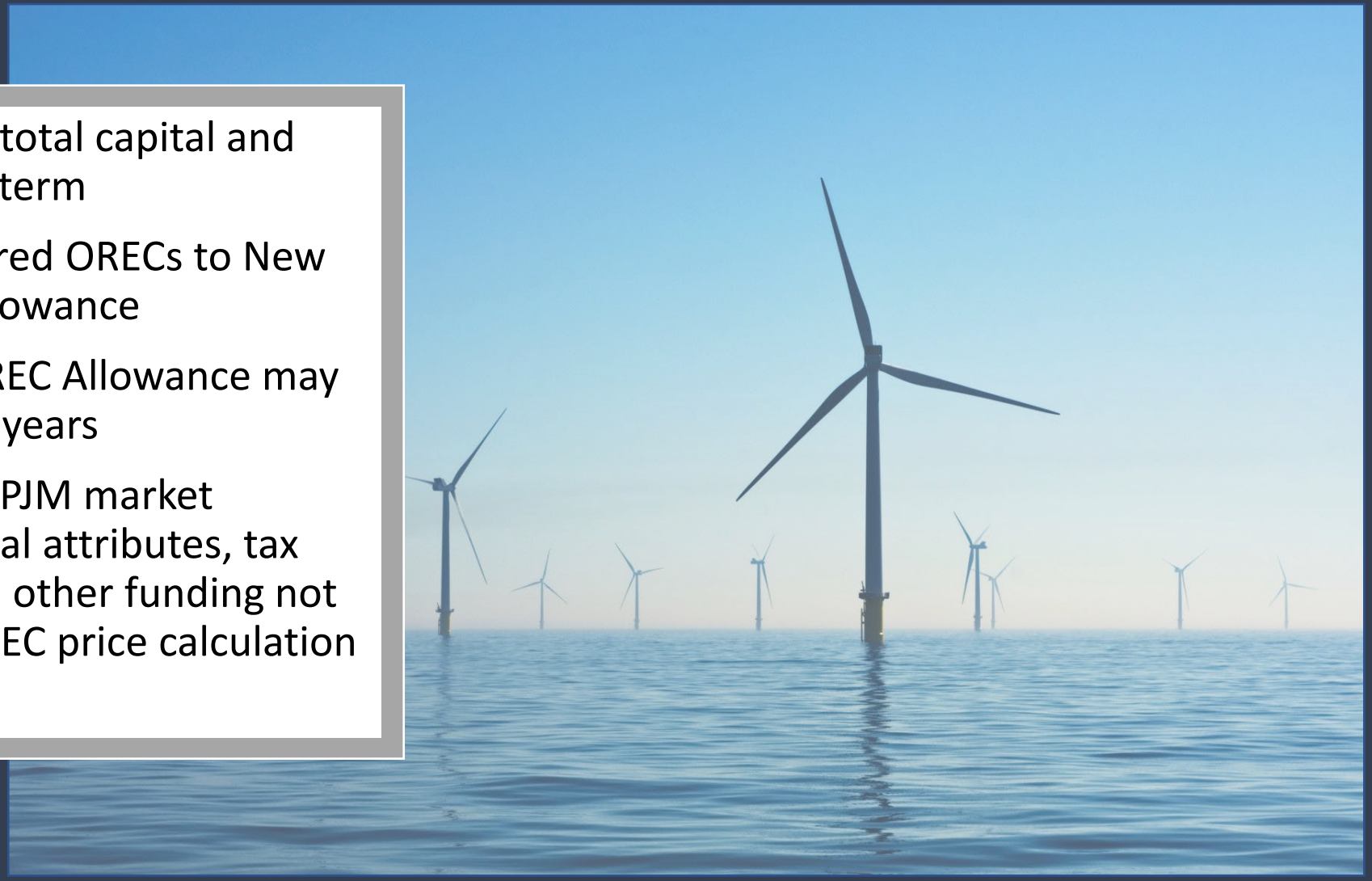
Q&A

Economic Development Plan

Price and Term

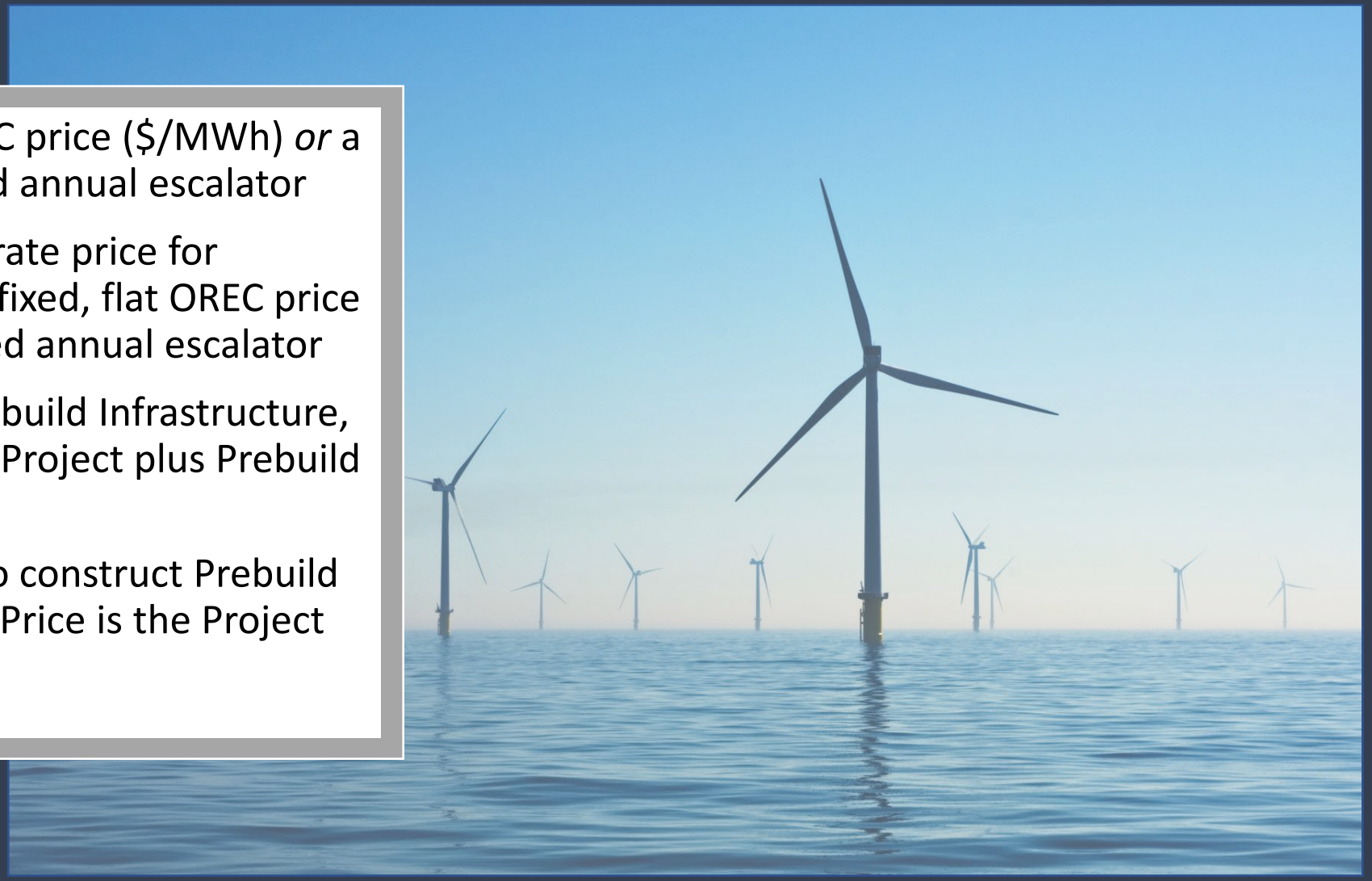
OREC Pricing

- OREC Purchase Price reflects total capital and operating costs for a 20-year term
- Project is paid only for delivered ORECs to New Jersey, up to Annual OREC Allowance
- ORECs in excess of Annual OREC Allowance may be carried over for up to two years
- Must return to ratepayers all PJM market revenues, other environmental attributes, tax credits, subsidies, grants, and other funding not previously included in the OREC price calculation



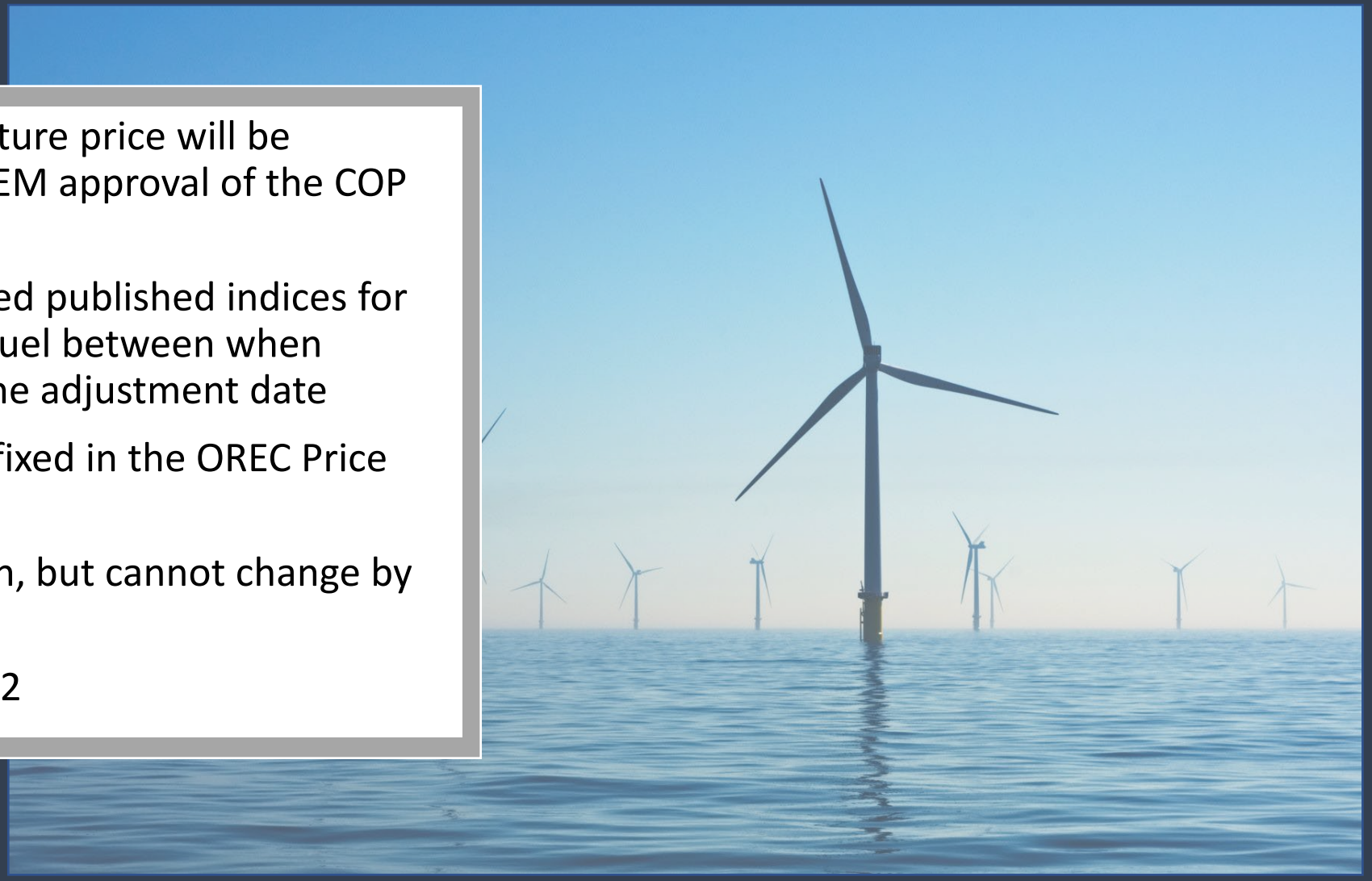
OREC Pricing

- Must propose a fixed, flat OREC price ($/MWh) *or* a fixed first year price and a fixed annual escalator
- Applicant must provide a separate price for Prebuild Infrastructure, either fixed, flat OREC price *or* fixed first year price and fixed annual escalator
- If selected to construct the Prebuild Infrastructure, OREC Purchase Price is sum of Project plus Prebuild Infrastructure
- If another Project is selected to construct Prebuild Infrastructure, OREC Purchase Price is the Project price



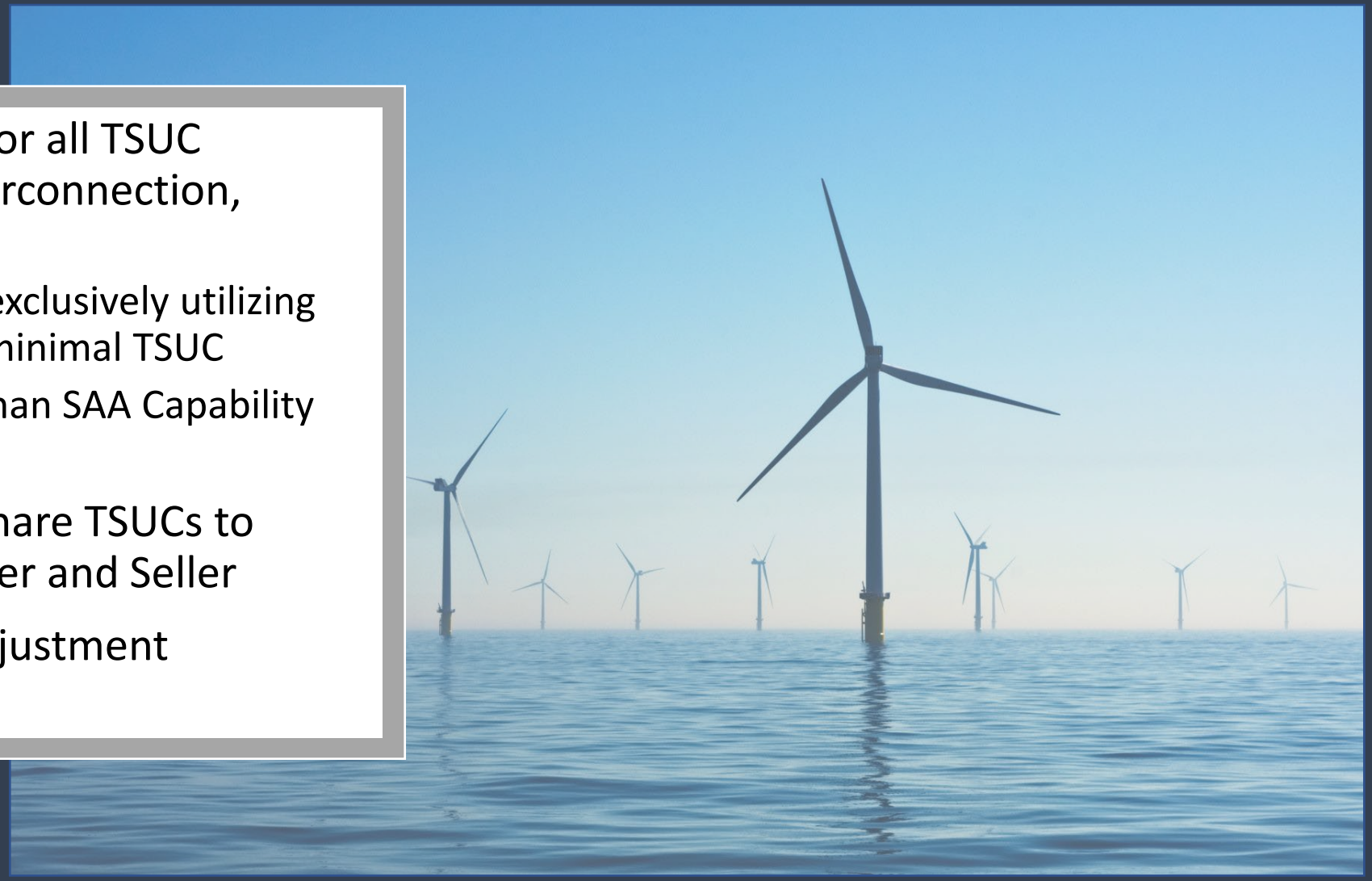
Inflation Adjustment

- Project and Prebuild Infrastructure price will be adjusted for inflation upon BOEM approval of the COP (adjustment date)
- Based on the change in specified published indices for Labor, Fabrication, Steel, and Fuel between when Application is submitted and the adjustment date
- Weightings for each index are fixed in the OREC Price adjustment formula
- Adjustment may be up or down, but cannot change by more than 15%
- See SGD Section 1.2 and Table 2



Transmission System Upgrade Costs (TSUC)

- Applicants are responsible for all TSUC associated with the LCS interconnection, unless otherwise specified
  - Staff anticipates Projects exclusively utilizing SAA Capability may have minimal TSUC
  - Projects seeking greater than SAA Capability assume incremental TSUC
- Applicant may propose to share TSUCs to apportion risk between Buyer and Seller
- See SGD Section 3.13 for adjustment mechanism



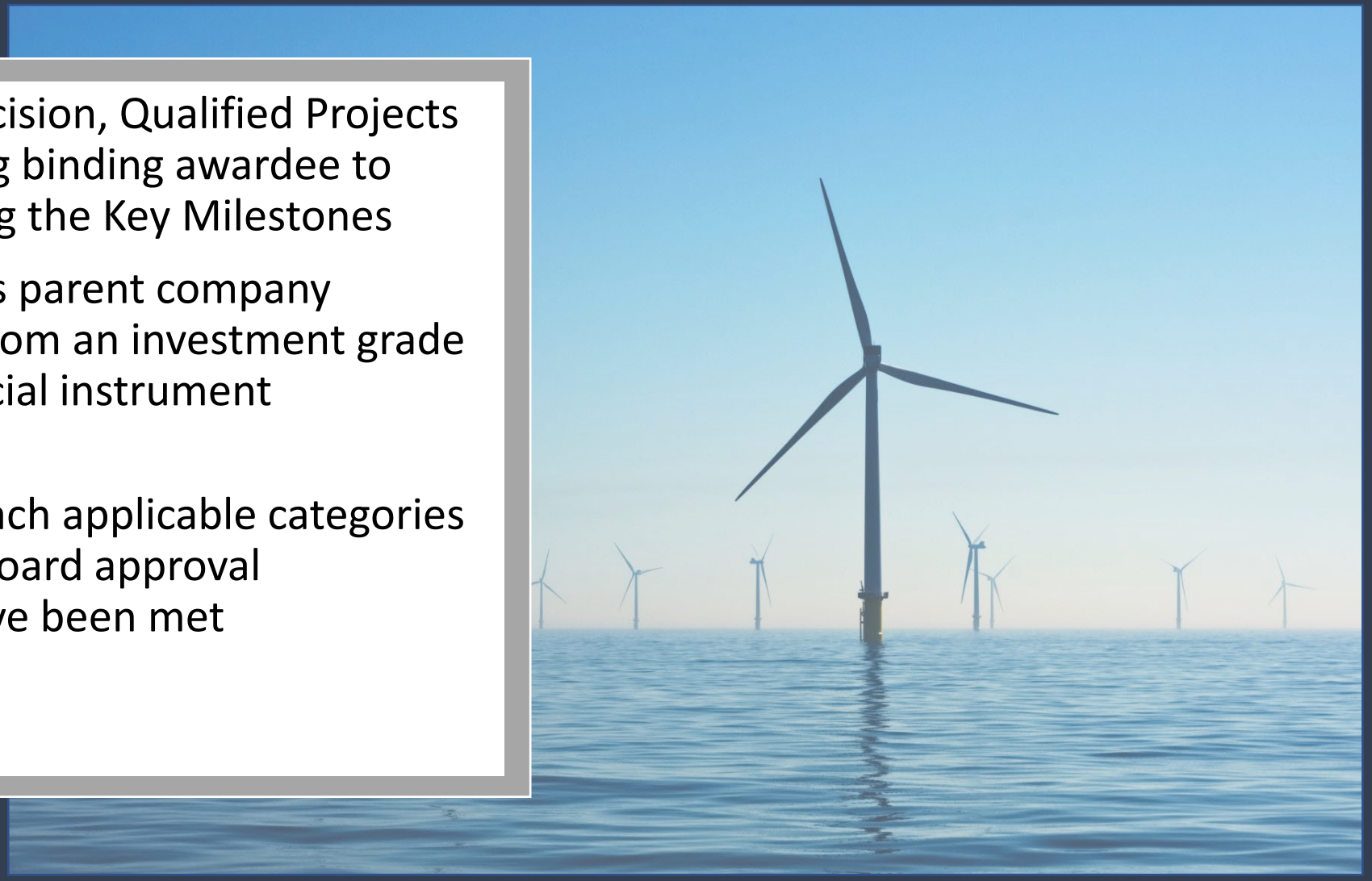
Q&A

- OREC Pricing
- Inflation Adjustment
- TSUC

Performance Guarantee

Performance Guarantee

- Within 90 days of Board Decision, Qualified Projects must make compliance filing binding awardee to commitments and specifying the Key Milestones
- Acceptable security includes parent company guarantee, letter of credit from an investment grade guarantor, or another financial instrument acceptable to the Board
- Commitment Security for each applicable categories can be reduced subject to Board approval when critical milestones have been met
- See SGD Section 2.6



Q&A

Performance Guarantee

Environmental and Fisheries

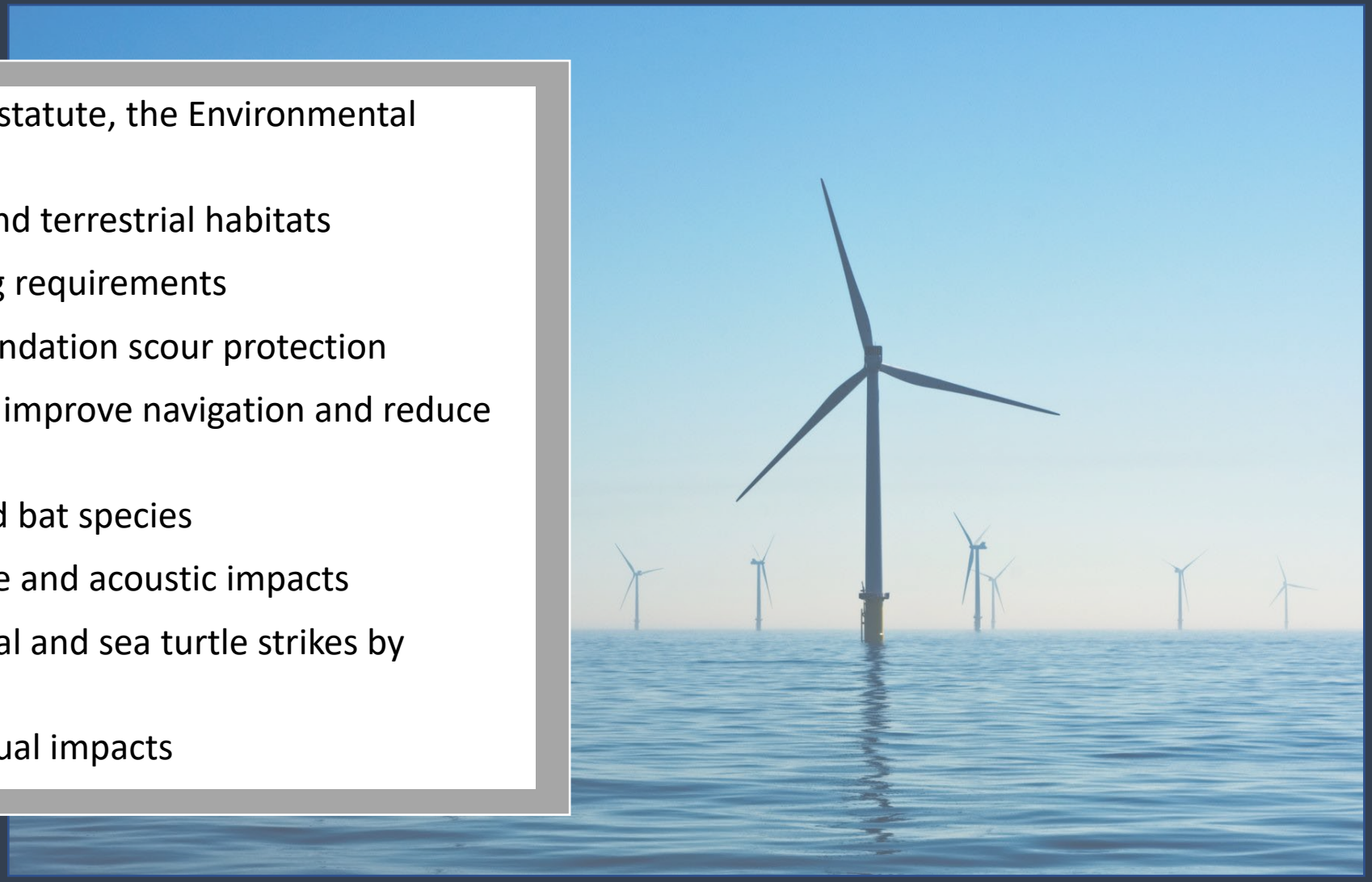
Environmental and Fisheries Protection

- Must work collaboratively with state and federal agencies and other stakeholders to avoid, minimize and mitigate potential impacts to natural resources
- Attachment 6 and Attachment 9 establish minimum protection requirements for environmental and fisheries resources, respectively
  - Primarily based on BOEM COP Guidelines, recommended Best Management Practices
  - Modifications based on guidance/input from DEP, federal agencies, and regional science entities

Environmental Protection Plan

In addition to measures required by statute, the Environmental Protection Plan requirements cover:

- Protections for sensitive marine and terrestrial habitats
- Cable burial depth and monitoring requirements
- Recommendations for turbine foundation scour protection
- Lighting controls and measures to improve navigation and reduce impacts on avian and bat species
- Required protections for avian and bat species
- Requirements for minimizing noise and acoustic impacts
- Measures to avoid marine mammal and sea turtle strikes by vessels
- Measures to minimize adverse visual impacts

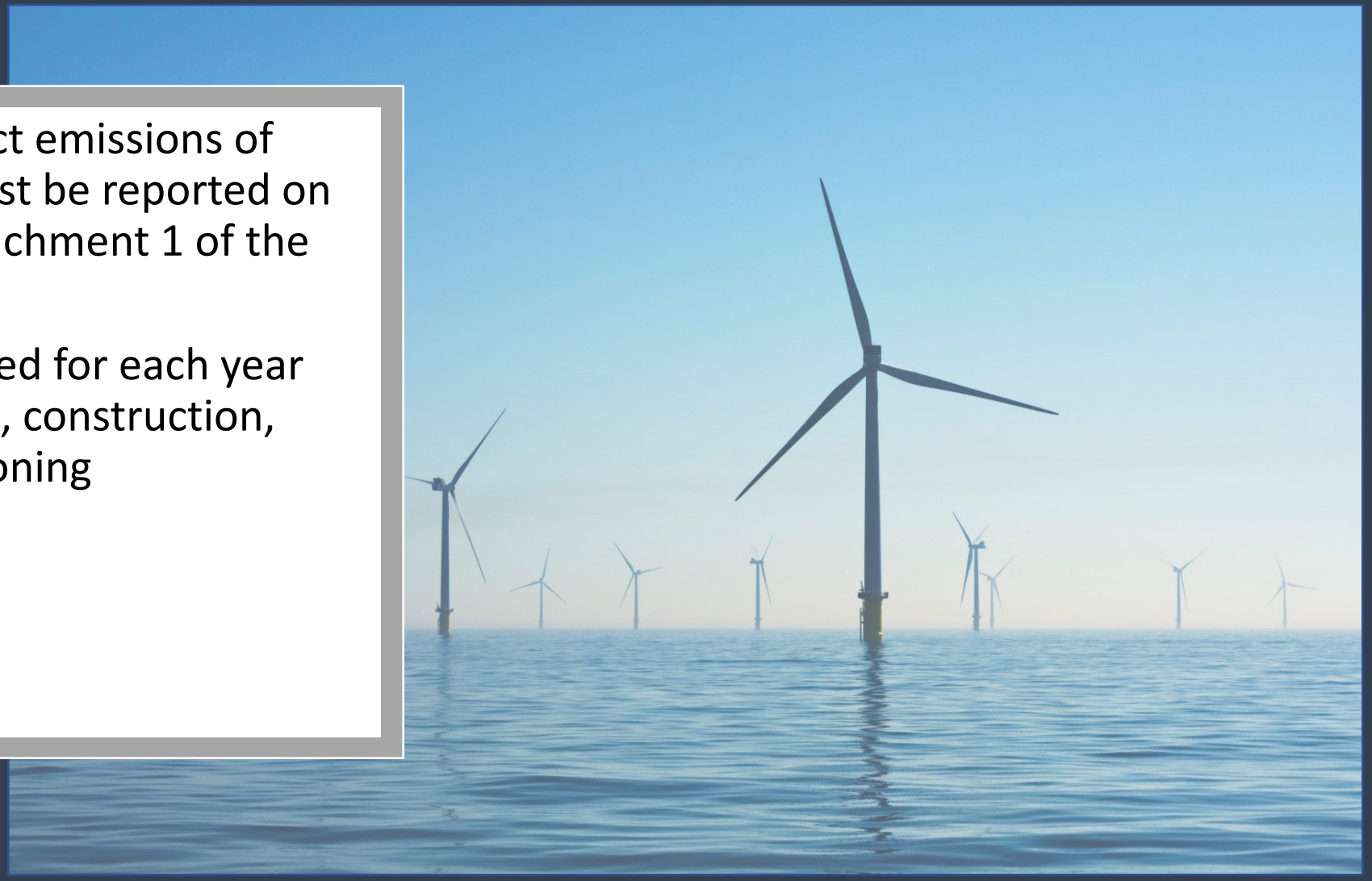


Additional Requirements

- Infrastructure Monitoring Plan (Attachment 8)
- Data Management and Availability Plan (Attachment 7)
- Qualified Projects will be required to develop:
  - Adaptive Monitoring Plans
  - Adaptive Mitigation Plans
  - Fisheries Communication Plan
- Stakeholder engagement is a required for post-award plans
- $10,000/ MW fee to support NJ Research and Monitoring Initiative

Emissions Impacts

- Avoided emissions and direct emissions of CO_2, SO_2, NO_x and $PM_{2.5}$ must be reported on the Application Form in Attachment 1 of the SGD
- Annual data must be provided for each year during Project development, construction, operation, and decommissioning



Q&A

- EPP
- FPP
- Emissions Impacts

Evaluation Criteria

Evaluation Factors	Weight
OREC Purchase Price and Ratepayer Impacts	70%
Non-Price Factors: 1) Economic Impacts and Strength of Guarantees for Economic Impacts; and 2) Environmental and Fisheries Impacts	30%
Likelihood of successful commercial operation will be used to determine whether a Project is eligible to become a Qualified Project	

Q&A

Sea Girt National Guard Training Center and the New Jersey Department of Military and Veteran's Affairs

Presented by Charles "Chuck" Appleby, LSRP,
NJARNG Environmental Bureau Chief

Sea Girt Offshore Wind Cable Construction

Site Activities

Wetlands
- Avoid Areas
- Permit from NJDEP- 6 months

Health and Safety Plan Approvals
- CFMO Review comment- 2 weeks

CAFRA PERMIT
- CFMO Review- 2 weeks (minimum)
- NJDEP Review- 4 to 6 months

Cultural Resources
- Sec.106
- Goal is no adverse effects determination
- NJMAVA- 2 weeks to review
- SHPO- 30 days to review

NEPA
- As required for specific activities

Utility Scoping
- GPR/Magnetometer/Map all Utilities in Proposal Work Area
- CFMO Review- 2 weeks
- 1 call required but not accurate

Range Assessments
- UXO/MEC Survey
  - Work Plan (120 days)
- Plan for every Work Area
- Active Range Use
  - Sundays Available
  - Schedule with Range Control Officer
- Includes:
  - NJDEP, State Police
  - JBMDL- (EOD)
  - NGB- Range UXO
  - SG- Range Control
  - Specialists and Contractors
- Approvals:
  - Implementation
  - Reporting

Climate Adaption
- Take into account climate impacts at site level
- Work climate sustainability into design to help range

Site Remediation
- ECOP- Environmental Condition of Property Reports
- Preliminary Assessment Reports

Natural Resources
- Recreation Beach Season
  - No work after Memorial Day-Before Labor Day
- T and E species (State and Federal)-TBD
- Integrated Natural Resource Management Plan
- Beach Replenishment Schedule (possible Fall ‘23)

Wetlands

- NJDMAVA Draft Permit Review- 2 weeks
- Best case scenario; it takes 6 months for NJDEP to award a permit.
- Ideally, the successful bidder will avoid impacts to wetlands and wetland transitional areas.

For NJDMAVA projects, CFMO-EMB is responsible for reviewing the action, determining the permitting requirements, and preparing the appropriate permit application for submission to the NJDEP and/or the U.S. Army Corps of Engineers (USACE).

NJDMAVA properties throughout the state contain a wide variety of different habitats including wetlands, hardwood forests, pineland forests, meadows, and beach habitat. The EMB conducts various habitat assessments at all NJDMAVA properties to document and characterize these diverse landscapes and identify any associated local, state, or federal regulations that would impart developmental restrictions.

NJDMAVA anticipates the successful wind and energy developer to review background documentation NJDMAVA provides to them, conduct their own field surveys, determine the need for any wetlands permitting, prepare and submit to NJDMAVA, a project specific draft wetland permit application to the NJDEP and/or USACE, address all NJDMAVA comments addressed on the permit, and then submit the revised draft permit application to the NJDEP and/or USACE. The successful developer will pay for the permit application fees, comply with all permit conditions, to include implementing wetland mitigation measures.

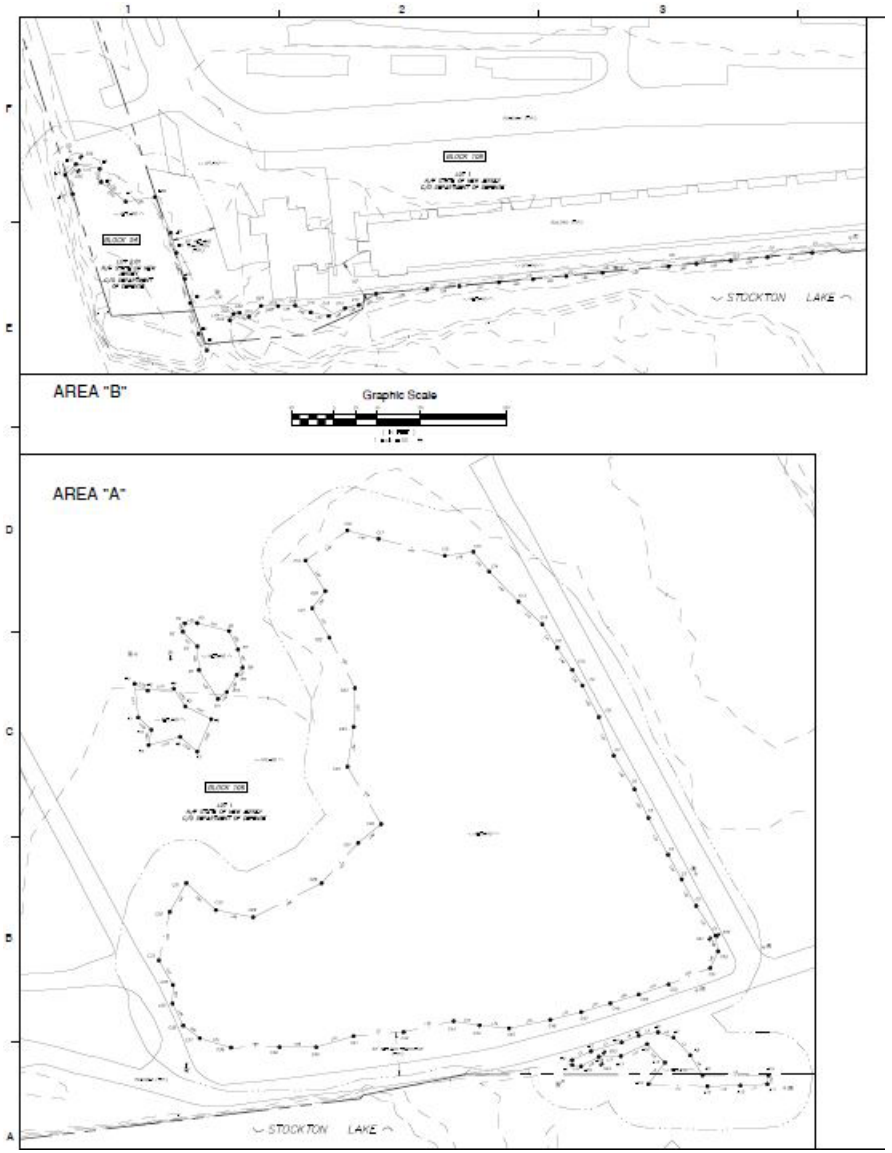
Involved Projects:

- 2019 Integrated Natural Resource Management Plan at Sea Girt
- 2019 Wetland Restoration (Completed)
- 2023 Wetland LOI Update

Wetland Locations (2018)

FIGURE 4-1 SEA GIRT NGTC DELINEATED WETLANDS

Wetland Locations (Draft; 2023 Wetland LOI)



Health and Safety Plan Approvals

- NJDMAVA Draft Plan Review- 2 weeks

OSHA (Occupational Safety and Health Administration) maintains jurisdiction over all private sector workplaces; federal agencies, maritime employers, military facilities, Indian sovereignty workplaces, and the United States Postal Service (USPS).

NJDMAVA anticipates the successful wind and energy developer to prepare and submit, to NJDMAVA, a site specific health and safety plan that comply with all state and federal laws and regulations.

NJDMAVA will also provide comments on the health and safety plan, and the developer will adhere to those changes.

CAFRA PERMIT

- NJDMAVA Draft Permit Review- 2 weeks (minimum)
- NJDEP Review- 4 to 6 months (Total)

A Coastal Area Facilities Review Act (CAFRA) permit is required for the following but not limited to:

- Any development on a beach or dune.
- Most developments located within 150 feet of a mean high water line (MHWL), beach or dune.
- Commercial developments resulting in 50 or more parking spaces, residential developments resulting in 25 or more dwelling units, and public developments at sites located more than 150 feet of a MHWL, beach or dune.

For NJDMAVA projects, CFMO-EMB is responsible for reviewing the action, determining the permitting requirements, and preparing the appropriate permit application for submission to the NJDEP.

NJDMAVA anticipates the successful wind and energy developer to review background documentation NJDMAVA provides to them, conduct their own field surveys, determine the need for any CAFRA permitting, prepare and submit to NJDMAVA, a project specific draft CAFRA permit application to the NJDEP, address all NJDMAVA comments addressed on the permit, and then submit the revised draft permit application to the NJDEP. The successful developer will pay for the permit application fees, and comply with all permit conditions.

Involved Projects:

- Permits for Beach Maintenance, Beach and Wetland Restoration.

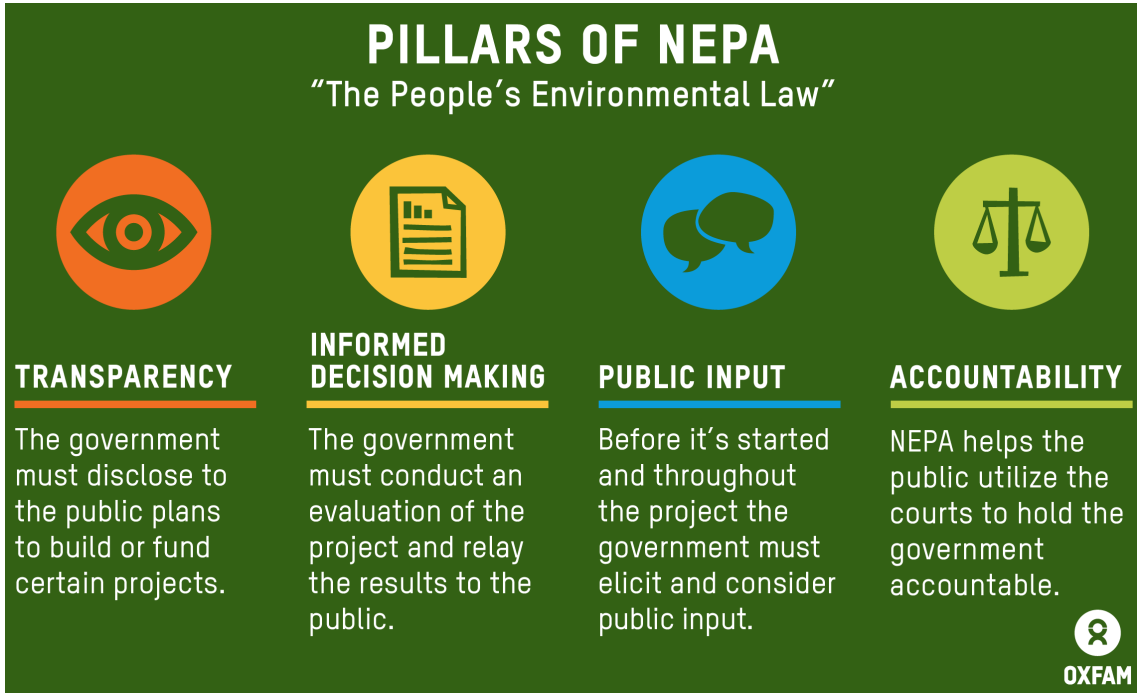
A Waterfront Development Individual In-Water Permit would be needed for any cable installations in state waters. Other than the state permits, a federal consistency would need to be submitted for any work outside the 3 nm limit of state waters.

NEPA

- As required for specific activities

U.S. statute requires all Federal agencies to consider the potential effects of proposed actions on the human and natural environment.

NJDMAVA acknowledges that these NEPA documents exist. However, NJDMAVA anticipates the successful wind and energy developer to review the existing documents, and the findings of new wind power construction and operation project studies, compare them to the existing conditions, and update the NEPA documents accordingly to incorporate findings of new project studies and existing conditions of the site.



Example: Page 1 of NEPA document of Sea Girt photovoltaic carport system

NGB Form 420-R

FY 2014 | **OMNG PROJECT REQUEST** | Date 03/11/2014

Prescribing Directive is NGB-420-10. Proponent NGB-ARI

1. Project Name: INSTALL 150KW PHOTOVOLTAIC CARPORT SYSTEM AT SEA GIRT TRAINING SITE | **2. Project #:** 34SG010

3. Location: Sea Girt, New Jersey | **4. Site:** 34B90 | **5. Site Name:** SEA GIRT NJ NGTC

6. Criteria: NGR420-10 Interim Chapter7 Para 7-8a(1) ☐ Exception to Criteria *(justification in block 11)*

7. Project Program	☐ Sustainment	☐ Restoration	☒ Modernization	☐ Demolition
8. Project Activity	☐ Maintenance	☐ Repair	☒ Construction	☐ Demolition
9. To Be Accomplished By	☒ Contract	☐ Training Project	☐ Time and Material	☐ Govt Furnished Material

10. Project Description *(Include single line drawing;use reverse if necessary)*

Install a Design Build CANTILEVER 150KW Photovoltaic car port system which is connected to the public utility grid and complete web monitoring system for production and document ROI.

11. Project Justification *(Use reverse side if necessary)*

To reduce our independence on fossil fuels, reduce energy consumption and increase renewable energy production to help meet the net zero, energy independence from the grid and improve sustainability of our training sites during state emergencies. This project meets the intent of the EO 13423 and the Army goals for energy reduction. This project meets the ROI for renewable energy projects and is supported by the LCCA. This additional project will increase our overall renewable production by 8% for the training site, bring our total to approximately 42% of electric consumption supported by Photovoltaic generation. This also provides a cost avoidance of $144,000 annually with an estimated utility cost avoidance of $1,600,000 over the next ten years.

12. Financial Data

MDEP	AMSCO	Description	Federal Cost	State Cost	Other Cost
QUTM	132G76L5000	Modernization - Active Facilities	710,000.00	0.00	0.00
QUTM	132G76N1000	Planning and Design	40,000.00	0.00	0.00
Total:			**750,000.00**	**0.00**	**0.00**

13. All environmental impacts will be assessed in accordance with 32 CFR Part 651, Environmental Analysis of Army Actions. I certify all environmental documentation requirements will be met.

Name, Grade Charles Appleby — EPM *(only)* Title — Signature: 9/24/14

14. State Supplemental Certifier: *(Optional)*

Name, Grade Project Contact — Title — Signature:

15. CERTIFICATION: I certify that all entries are accurate and complete and that all Federal, State, and local statutory requirements have or will be satisfied.

Name, Grade Michael A. Lyons,COL — CFMO *(only)* Title — Signature: 10/7/14

16. USPFO Approval

Name, Grade Angelo Capolupo, COL — USPFO *(only)* Title — Signature:

NGB FORM 420R Jan14 (REPLACE NGB FORM 420-R, DATED DEC 02, WHICH IS OBSOLETE)
Project Approval and Acceptance Documentation must be kept with this form.

Utility Scoping

- GPR/Magnetometer/Map all Utilities in Proposal Work Area
- CFMO Review- 2 weeks
- One Call required but not accurate

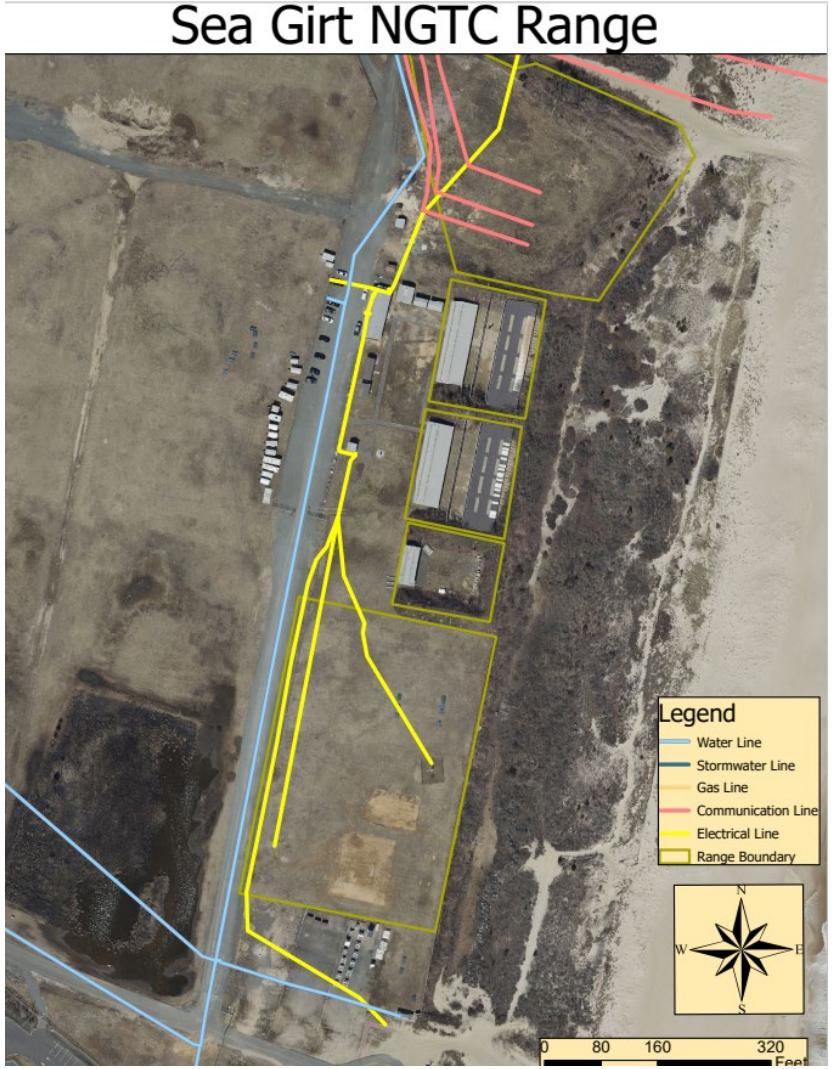
The facility dates back to 1888, and a lot of underground facilities, which some have of been abandoned, and some that are within public right of way including but not limited to:

- Transatlantic Fiber-Optic communication lines
- County-level potable water distribution

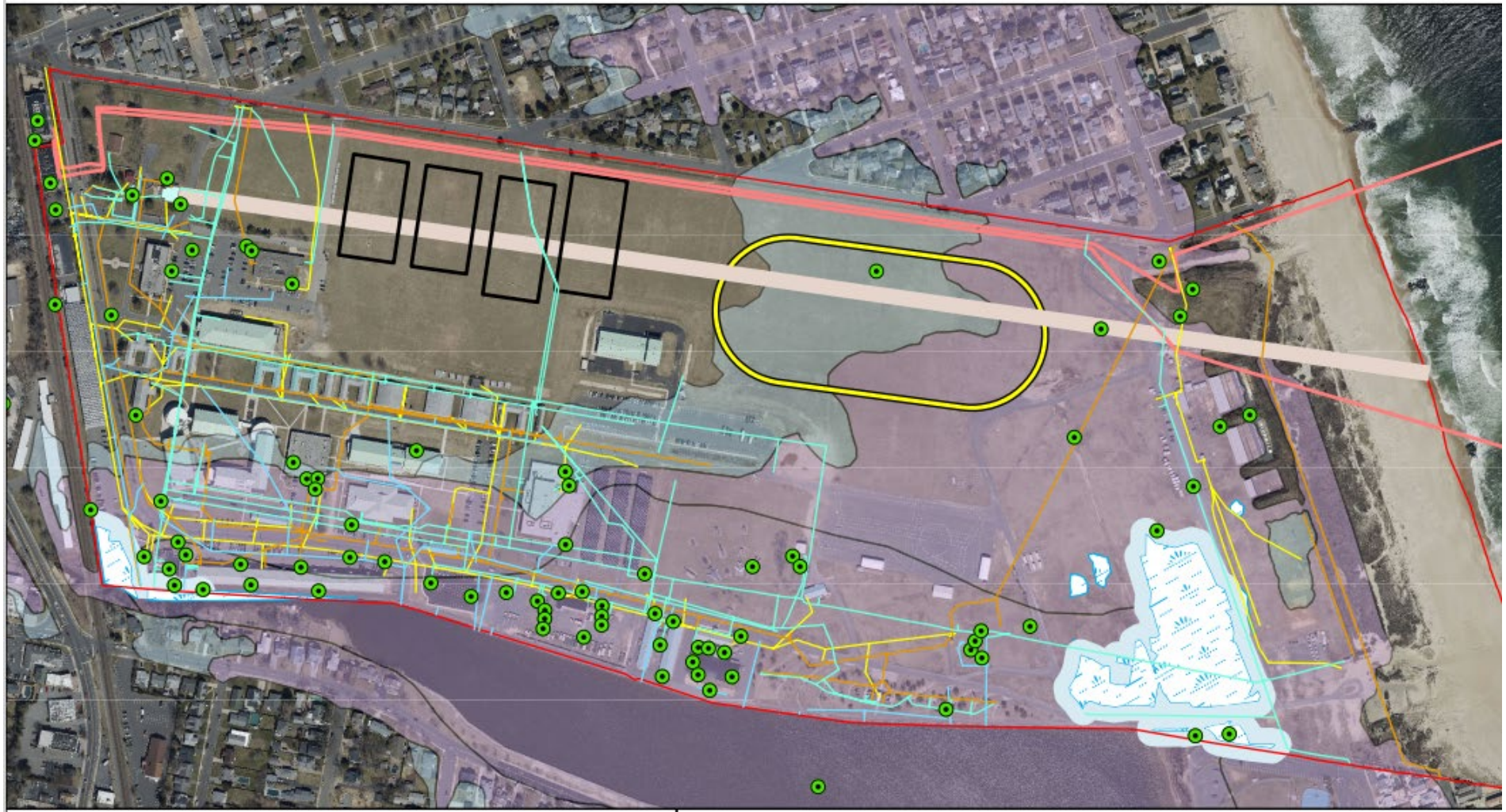
NJDMAVA anticipates the successful wind and energy developer to review background documentation NJDMAVA provides to them, complete a full scale underground utility survey (GPR, Magnetometer, etc) within the proposal work area, not solely rely on New Jersey One Call (1-800-272-1000), avoid all underground utilities, and provide all base data and figures obtained from the survey in Auto-CADD and ESRI GIS shapefile formats.

Involved Projects:

- 2010 Sea Girt Masterplan and Underground Utilities Survey



Sea Girt Proposed Running Track - Environmental Constraints and Developable Area



Note: The proposed track is half-mile around with a width of 20 feet.

Creator: Steven Hoffman

0 300 600 1,200 1,800 Feet

Legend

- Area of Concern
- Storm Sewer Line
- Potable Water Line
- Wastewater Line
- Electrical Line
- T- Mobile Line
- Property Boundary
- Wetland Buffer
- Wetland
- Running Track
- Historic Structure
- Historical Viewshed
- Recreation Field

Layer

Flood Hazard

- 500-Year Flood Zone
- 100-Year Flood Zone

Site Remediation

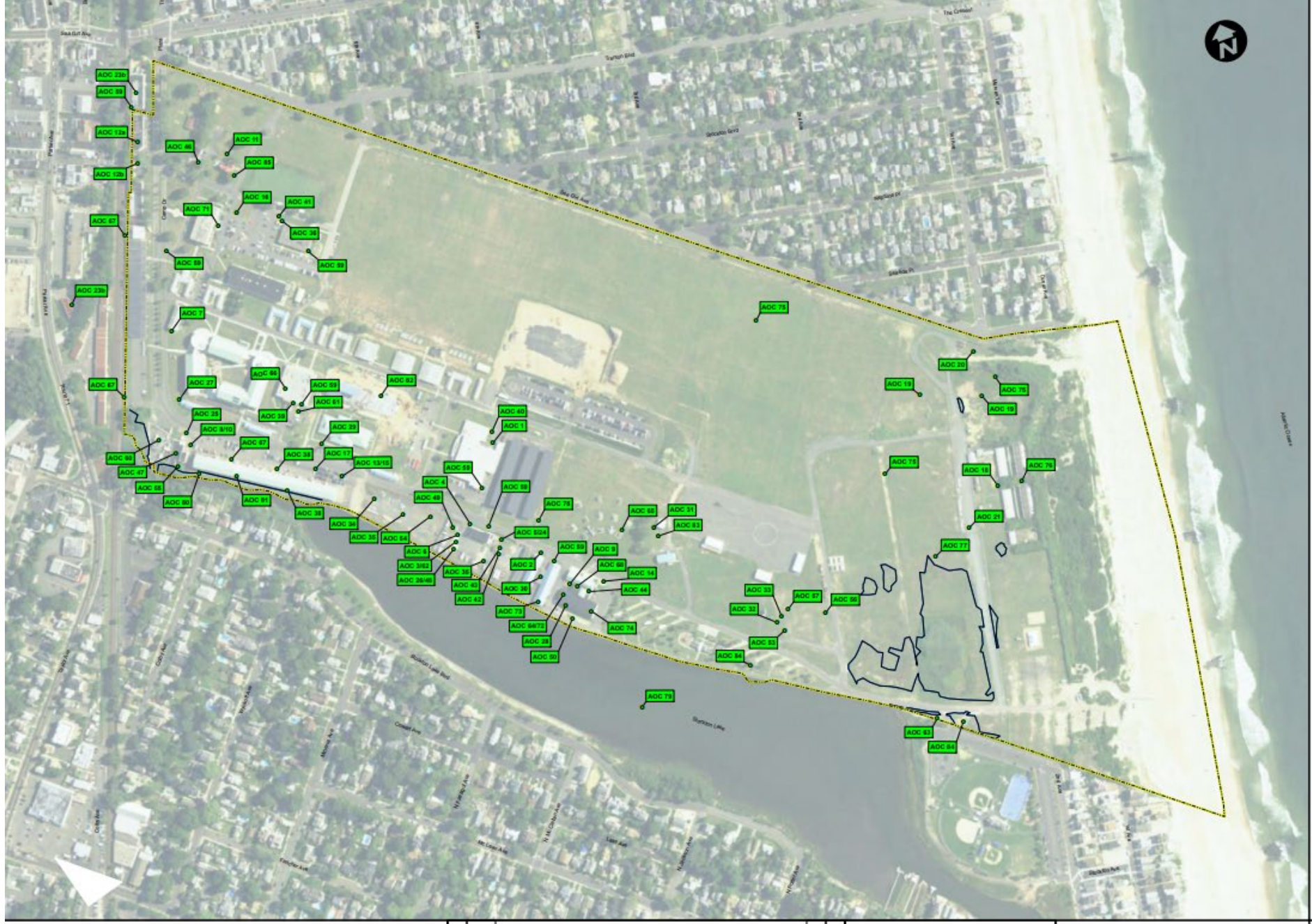
- ECOP- Army Environmental Condition of Property Reports
- NJDEP Site Remediation Program

For NJDMAVA projects and real estate transactions, CFMO-EMB is responsible for identifying and assessing environmental areas of concerns related to historical contaminated areas (from 1932 or before the site was developed and naturally vegetated) caused by, but not limited to leaking underground storage tanks, out of service septic fields, oils spills, and former indoor and outdoor firing ranges.

NJDMAVA anticipates the successful wind and energy developer to review site remediation background documentation NJDMAVA provides to them, review their project against known environmental areas of concerns, and either avoid impacts to those known environmental areas of concerns or remediate to NJDEP program standards using a LRSP. NJDMAVA will review and comment all site investigation and remedial action plans prepared by the successful wind and energy developers.

Involved Projects:

- Wood Preliminary Assessment Report



AOC	Description
1	Former 10,000-Gallon No. 2 Fuel Oil UST (E3 and Tank 6)
2	Former 10,000-Gallon Unleaded Gasoline UST (E8, Tank 15, E559 and AOC 1)
3	Former 2,000-Gallon Medium Diesel 2-D (E7, Tank 9, E627, and 71)
4	Former 2,000-Gallon No. 2 Fuel Oil UST (E6, Tank 4 and 72)
5	Former 550-Gallon Waste Oil UST (W7, AD-5, Tank 12, AOC 3 and 73)
6	Former 2,000-Gallon Unleaded Gasoline UST (E8, Tank 8 and E560)
7	Former 550-Gallon No. 2 Fuel Oil UST (E2 and Tank 5)
8	Former 12,000-Gallon No. 2 Fuel Oil UST (AGC1)
9	Former 2,000-Gallon No. 2 Fuel Oil UST (F13, Tank 53/56 and AD-2)
10	Gallon Medium Diesel 2-D UST (C1 and Tank 53/55)
11	Former 1,000-Gallon No. 2 Fuel Oil UST (QE 81, AOC 4, AOC 3 and Tank 1)
12a	Former 2,000-Gallon Medium Diesel 2-D UST (E1, AOC 2, AOC 3 and Tank 1)
12b	Active 2,000-Gallon Medium Diesel 2-D UST (E1, AOC 2, AOC 3 and Tank 1)
13	Former 550-Gallon Unleaded Gasoline UST (E4, Tank 6, AOC 2)
14	Former 2,000-Gallon Unleaded Gasoline UST (E8, Tank 17 and E559)
15	Former 1,000-Gallon Medium Diesel 2-D UST (F12, Tank 7 and AOC 2)
16	Former Transformer - Building 7
17	1960s Diesel Spill - Building 60
18	2008 Spill - Firing Ranges
19	ACM Areas 1 and 3
20	ACM Lead Area 2
21	ACM Area 4
22	Direct Intrusion
23a	Onsite Groundwater
23b	Groundwater Offsite Sources
24	Active 550 Gallon Waste Oil UST(UST 1 Recirtped Oil/Water Separator (WS2 and Tank 53/55)
25	Active 2,000-Gallon Medium Diesel 2-D AST (AST 1 Fuel Point - Diesel Fuel and Gasoline)
26	Active 2,000-Gallon Medium Diesel 2-D AST
27	Former 275-Gallon No. 2 Fuel Oil AST (AS-1)
28	Former 275-Gallon Waste Oil AST (AS-2)
29	Former 550-Gallon No. 2 Fuel Oil AST (AS-3)
30	Former 550-Gallon No. 2 Fuel Oil AST (AS-4)
31	Former 550-Gallon No. 2 Fuel oil AST (AS-7)
32	Former 275-Gallon No. 2 Fuel Oil AST (AS-8)
33	Former 275-Gallon No. 2 Fuel Oil AST (AS-9)
34	Former Vehicle Storage Area
35	Vehicle Storage Area - Building 36
36	PCB* Hazardous Materials Storage
37	Dumpsters
38	Loading Docks - Building 62
39	Loading Dock - Building 13
40	Former Loading Dock - Building 35
41	PCB* Laminkeeping Equipment Shed
42	Outdoor Flammable Materials Shed - Building 36
43	Shed - Building 36 (Former Oil Storage Area)
44	Paint Storage Shed - Building 67
45	Floor Drains - Multiple Buildings
46	Floor Drain - Quarters 3 Garage
47	Floor Drains and Sump - Building 59
48	Waste Refueling Area Pad and Sump - Building 36
49	Sump - Outdoor Vehicle Maintenance Area - Building 36
50	Former Wash Station (also Wash Rack/Concrete Washstand) - Building 68
51	Floor Drains - Multiple Buildings
52	Storm Sewer Collection System
53	Former Septic System and Winter Drainage Field Area
54	Brick Septic Tank - Building 36
55	Dump Area - Building 59
56	Dumpers
57	Former Sewage Treatment Plant
58	Historic Fill
59	Transformers - Stateside
60	PCB Transformers
61	PCB Transformers
62	Large Drive Transformers
63	PCB Transformers
64	PCB Transformers
65	PCB Transformers
66	Electrical Substation
67	Trash Compactor - Building 11
68	1992 Spill - 2600 gal Building 36
69	1998 Potential Spill - Former Sewage Treatment Plant
70	2007 Hydraulic Fluid Spill - Building 60
71	2011 Engine Oil Spill - Museum Building 68
72	Compressor Vent - Building 11
73	Former Railroad Spur
74	Former Boilers - Multiple Buildings
75	Air Vents and Ducts - Multiple Buildings
76	Chemical Storage Cabinets and Closets - Multiple Buildings
77	Ammonia Compressed Gas Cylinder - Building 7
78	Drum Storage - Building 68
79	Floor Bay Drain - Building 68
80	Museum Storage Area - Building 68
81	Range Tunnels
82	Active Ranges
83	Historical Ranges
84	Former Blacksmith Shop
85	Surface Water/Sediment
86	Dump Area - Building 68
87	Dump - Building 62
88	ACM Soil - Building 63
89	Former Munitions Hazardous Waste Storage - Building 71
90	New Jersey State Fire College Training Area
99	Quarters 2 Lead in Soil

Notes:
1. AOC 22, 23, 37, 49, 51, 69, & 70 are site-wide.

Source:
Master Plan for the National Guard Training Center, Jacobs, February 2, 2010.

Wetland Location & Topographic Survey; Sea Girt National Guard Training Center; Block 106 Lot 1 Borough of Sea Girt & Block 94 Lot 2.01, Borough of Manasquan, Monmouth County, NJ; VS Land Data; 2011/08/11.

Aerial Imagery and Digital Orthoimagery for the Department of the Army Site at Sea Girt Training Center, New Jersey; Pugio Geospatial, Inc., Frederick, Maryland; 2017/07/02.

400 200 0 400
SCALE IN FEET

Amec Project No.
3480150464

Prepared/Date	Checked/Date
WSL 11/10/2015	KC 11/10/2015

wood.
ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
200 AMERICAN METRO BLVD, SUITE 113
HAMILTON, NEW JERSEY 08619

FIGURE 4
Site Plan Depicting Areas of Environmental Concern
Sea Girt National Guard Training Center
New Jersey Army National Guard
Sea Girt, New Jersey

Climate Adaption

- Take into account climate impacts at site level
- Work climate sustainability into design to help range

The CFMO-EMB partnered with Rutgers University and the Jacques Cousteau National Estuarine Research Reserve and is currently evaluating the results of the Defense Climate Adaption Tool (DCAT) to identify climate related vulnerabilities at NJDMAVA installations and develop short and long-term adaption strategies.

Some potential climate impacts include:

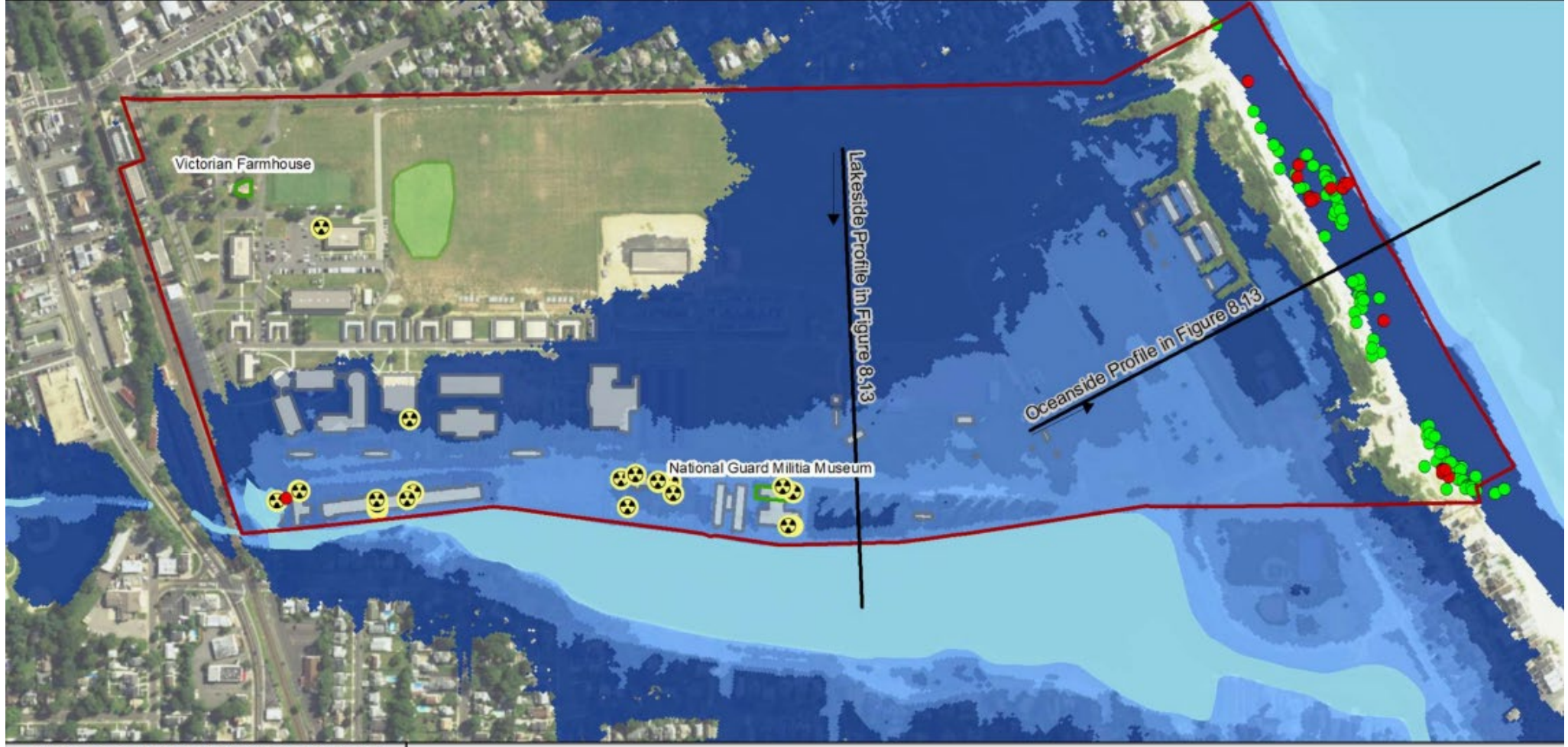
- Prolonged high temperature and humidity days
- More intense convective, tropical and extratropical storms
- More frequent coastal flooding

NJDMAVA anticipates the successful wind and energy developer to review site level and climate studies and review, and design their project to mitigate against known potential climate impacts. Such mitigation measures can include using all below grade infrastructure that can withstand frequent flooding, keeping all the infrastructure outside the limits of all mean high water level flood areas, and keeping all infrastructure westward of the range in anticipation of moving the range due to climate impacts.

NJDMAVA will review and comment all climate adaption measures prepared by the successful wind and energy developers.

Involved Projects:

- 2019 Rutgers Climate Study
- 2019 INRMP
- 2023 Draft of INRMP



New Jersey Army National Guard
Department of Military
and Veteran's Affairs

Figure 8.14 - Total Water Level Scenarios

NGTC at Sea Girt
February 2020

0 200 400 800 Feet

Aerial Photography - USDA 2017
All other data from NJDMAVA

Legend

- Profile Locations
- Sea Girt Extent
- Special Status Species - Fauna
- Special Statues Species - Flora
- Hazardous Materials Storage
- Archaeological Site
- Historic Buildings
- Current Buildings
- Extent of Hurricane Sandy Flooding

Total Water Level above MHHW

- 2 Foot
- 3 Foot
- 5 Foot
- 9 Foot

Cultural Resources

- Conduct section 106 consultation and any additional surveys
- NJDMAVA Review 2 weeks; SHPO review 30 days

Section 106 requires federal agencies to consider the effects of projects they carry out, approve, or fund on historic properties. Section 110 of the National Historic Preservation Act (NHPA) sets out the broad historic preservation responsibilities of Federal agencies and is intended to ensure that historic preservation is fully integrated into the ongoing programs of all Federal agencies.

Since 2004, NJDMAVA has systematically completed archeological and architectural surveys statewide. There are 9 facilities that are eligible for listing on the state and national historical register as architecturally significant and 2 sites that are eligible for listing on the state and national historical register as archeologically significant. Both an architectural (Quarter's One and it's associated viewshed) and archeological site (Shearman-Mount-Stockton Farmstead) are at Sea Girt.

NJDMAVA anticipates the successful wind and energy developer will comply with Section 106 requirements and consult with the state preservation office with all the work they do at Sea Girt. This may include conducting their own archeological and architectural surveys and review and compare to NJDMAVA's existing surveys. CFMO-EMB will review and comment all archeological surveys and Section 106 consultation packages prepared by the successful wind and energy developers prior to the wind energy developers sending the surveys and packages to the NJDEP for their review.

Involved Projects:

- Various archeological and architectural surveys
- SHPO consultations
- 2022 ICRMP

Sea Girt NGTC Cultural Resources

Range Assessment

- UXO/MEC Survey- Work Plan (120 days)

Before any ground-disturbance work is conducted, the successful developer must complete an UXO Survey within their project area.

The ranges are extremely active and Sundays are the only days that the ranges are not in use.

Procedures are in place during and following Construction and Operations Plan (COP) development to ensure turbines and infrastructure within offshore wind farms are not affected by the presence of UXO.

NJDMAVA anticipates the successful wind and energy developer will perform adequate site characterizations in coordination with the Range Control Officer and ensure all studies are done when the range is not active.

Involved Projects:

- Wood Preliminary Assessment Report
- Operational Range Assessment
- 2017 Periodic Review Binder

Army National Guard Operational Range Assessment Program
Periodic Review
Sea Girt National Guard Training Center, New Jersey

EA Engineering, Science, and Technology, Inc., PBC

Figure 1
Current Range Layout

Installation Data
- Installation Boundary
- Firing range
- Maneuver and Training Area
- Dudded Impact Area
- Non-Dudded Impact Area
- Non-Operational Area

Hydrology
- Perennial Creek/Stream
- Waterbody

Transportation
- Highway
- Major Road
- Secondary Road

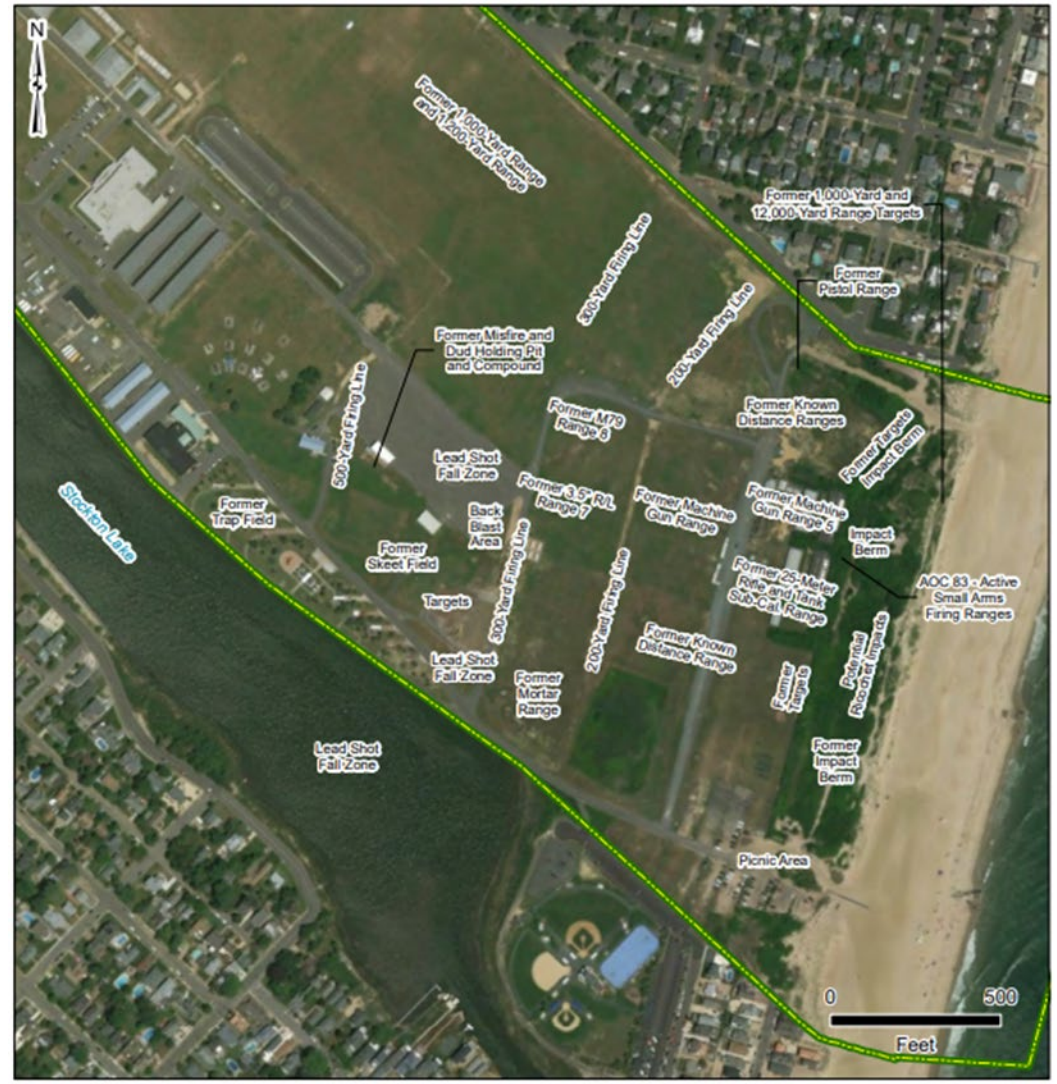
Data Sources:
ESRI 2016
NJARNG 2017

Date: May 2018
Prepared By: EA
Prepared For: USACE

Army National Guard Operational Range Assessment Program
Periodic Review
Sea Girt National Guard Training Center, New Jersey

EA Engineering, Science, and Technology, Inc., PBC

Figure 2
Historical Range Areas and Adjacent Areas



Installation Data
- Installation Boundary

Data Sources:
ESRI 2016
NJARNG 2017

Date: May 2018
Prepared By: EA
Prepared For: USACE

Natural Resources

NJDMAVA has been working cooperatively with the USFWS and NJDEP to monitor and manage listed species and other sensitive habitats on the Sea Girt NGTC beach since 2000. The site also has a very active recreational beach that is open from Memorial Day to Labor Day.

Sea Girt NGTC provides important habitat for five rare species including the Piping Plover (Federally Threatened), Seabeach Amaranth (Federally Threatened), Osprey (State Threatened), Least Tern (State Endangered), and Seabeach Knotweed (State Endangered). These species are typically present on the site from early spring to late summer.

NJDMAVA anticipates the successful wind and energy developer will review the New Jersey Army National Guard Sea Girt National Guard Training Center's INRMP, no work will be conducted during the recreational beach season, ensure all listed species that may occur on site are not adversely impacted during the proposed actions, perform Section 7 consultation of the Endangered Species Act with the USFWS, obtain all necessary permits from the NJDEP, and comply with all permit requirements and mitigation measures identified during Section 7 consultation.

FIGURE 6-1 SEA GIRT NGTC RARE SPECIES PROTECTION AREAS AND ENDANGERED AND THREATENED SPECIES LOCATIONS

Natural Resources (continued)

Projects CFMO-EMB can be consulted for a summary and interpretation of the following survey documents:

- 2019 Integrated Natural Resource Management Plan
- 2019 Vernal Pool Habitat Assessment Survey
- 2019 Pine Barrens Tree Frog Presence/Absence Survey at NJARNG Installations
- 2021 Landscaping Plan Along Stockton Lake Bulkhead and Walking Path at the Sea Girt NGTC
- 2021-2022 Wood Turtle Survey Results Report
- Draft CY'22 Annual Rare Species Monitoring Report


Piping Plover

Involved Projects completed in coordination with the Stockton University Environmental Internship Program (SUEIP):

- 2019 Invasive and Protected Species Project
- 2019 Seabeach Amaranth Plot Experiment
- 2020 Vernal Pool Habitat Survey

Expectations for Landfall at National Guard Training Center

- Request for Real Property Review (RPR – 1) -This form is for agencies to request action on State-owned real property. It is circulated for comment among all other departments prior to action. This form is required for granting an easement.
  - RPR – 1 packet will not be submitted until all environmental steps/procedures are complete (refer to slide one)
- Proposal for traversing the site should:
  - not create impediments to existing infrastructure on the site.
  - not create impediments to operational activities at the site.
  - not interfere or impact communication line easements at the site.
- Additional Information
  - no borings will be allowed on site until a contract is awarded
  - A project to upgrade the electrical infrastructure on the site is expected to occur in the coming years, not currently reflected on this slide deck
  - US Army Corps of Engineers Beach Nourishment project anticipated mobilization November 2023

Conclusion

- The successful wind and energy developer must comply with all environmental regulations and conduct their own surveys. Bidders will be required to comply with DMAVA expectations shown on the previous slide and issues that may become apparent during project development.
- Any additional information or clarification requests must be submitted in writing to:
  - NJDMAVA Points of Contact: Jill Priar (Jill.Priar@dmava.nj.gov) and Steven Hoffman (Steven.Hoffman@dmava.nj.gov)
- Site Walk-Through scheduled for **Monday, April 10, 2023, 10:00 AM** (No additional dates available).
  - 100 Camp Drive, Sea Girt, NJ 08750
  - In order to participate in the Walk-Through, interested parties must submit a list of participants to Victoria Lizaire (Victoria.Lizaire@dmava.nj.gov) with copy to Jill Priar (Jill.Priar@dmava.nj.gov) NLT Wednesday, April 5, 2023. This information will allow DMAVA to arrange access to the site. Each participant must be prepared to present a vaild ID to the security guard.

References

- AR 200-1
- Protection of Wetlands (EO 11990)
- Floodplains Management (EO 11988)
- Wetland Permits (40 CFR 230 through 233)
- Wetlands Act, 1970 (NJSA 13:9A-1 to -10)
- Freshwater Wetlands Protection Act (NJSA 13:9B-1 to -30)
- List of Approved State Plans for State and Local Government Employees (29 CFR 1952.25)
- Occupational Safety and Health Administration (OSHA), Department of Labor (DOL) - Safety and Health Regulations for Construction (29 CFR 1926)
- Coastal Permit Program rules and Coastal Zone Management rules (N.J.A.C. 7:7.)
- Coastal Area Facility Review Act (NJSA 13:19-1 to -21)
- National Environmental Policy Act of 1969 (42 USC 4321-4347)
- The NGB NEPA Handbook, March 2002
- New Jersey Conservation Restriction and Historic Preservation Restriction Act (NJSA 13:8B-1 to -9)
- Protection of Historic Properties (36 CFR 800)
- Conservation and Development – Parks and Recreation (NJSA 13:1B-15.100 to -15.158)
- NJARNG Integrated Cultural Resources Management Plan, November 2002
- Cultural Resources Management (AR 200-4)
- Cultural Resources Management (DA PAM 200-4)
- Historic Objects Inventory, May 1999
- National Historic Preservation Act (42 CFR 137.288)
- Sea Girt Integrated Natural Resources Management Plan 2018-2022
- Program for Conservation and Rehabilitation of Natural Resources on Military Installations (16 USC 670a)
- Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 USC 9601)
- Endangered Plant Species List Act (NJSA 13:1B-15.151 to -15.158)
- Open Lands Management Act (NJSA 13:1B-15.133 to -15.150)
- Recognition of Department of Conservation and Economic Development (NJSA 13:1D-1 to -19)
- Construction Permits (NJSA 13:1D-29 to -34)
- Endangered Species Act of 1973 (50 CFR 402)
- Environmental Aid Act (NJSA 13:1H-1 to -7)
- Aid for Urban Environmental Concerns Act (NJSA 13:1L-1 to -25)
- State Park and Forestry Resources Act (NJSA 13:1L-1 to -25)
- National Environmental Policy (42 USC 4331)
- Natural Resources – Land, Forest, and Wildlife Management (AR 200-3)
- NJARNG Natural Resources Planning Level Survey Report, November 1999
- 2004 Seabeach Amaranth Memorandum
- 2018 Rare Species Report
- 2020-2021 Rare Species Report
- Sea Girt Integrated Natural Resources Management Plan 2018-2022
- NGB-ARE Memorandum, New Inventory of installations that Require an Integrated Natural Resources Management Plan Based on Army Criteria, 23 April 2002

DMAVA Document Package

#	Document Name
1	2019-02-20 FINAL SIR for Closure of USTE1PI020261SeaGirt
2	2019-08-21_PI000682_PAR_Sea GirtNGTC
3	2020-09-23 cover_certification_PI000682 SeaGirtNGTC
4	2020-09-23_receptor_evaluation_report_PI000682_SeaGirtNGTC
5	2020-9-23_PI000682_Sea Girt_RE Addendum
6	65211_RET200001_29058001
7	Environmental_Considerations_Report- Volume_I downloaded 6 Jun 18
8	Environmental_Considerations_Report-Volume_2 download 6 Jun 18
9	Final Summary Report - PCB Survey
10	NGTC_Access agreement_2021_03_09
11	NJDEP Case assignment ltr
12	PAR_AppendixJ1
13	Read_ Receptor Evaluation PI 000682
14	Receptor Evaluation PI 000682
15	RemedialInvestigationSubmission_65211_110620
16	RIR_Letter_65211_LSD210001_29825571
17	Sea Girt 000682 rem_timeframe_notification
18	Sea Girt 2020 bldg subslab sample results EPA
19	Sea Girt Communication Line Mark-Out
20	Sea Girt INRMP 2019
21	Sea GirtAOC85 Weston RIR-RAWP - Final
22	SeaGirt20-06-23-1541-25PI#000682cdn_online_form
23	SG AOC Figure
24	Task 1 & 8 Topo & Boundary Plans
25	Task 2 Gas-Elec-Comm Plans
26	Task 2 Storm-Sanitary-Water Plans
27	Bldg 46 Utility Plan
28	2019-02-20 FINAL SIR for Closure of USTE1PI020261SeaGirt
29	SG Bldg 60 (GIS Figure)
30	SG Bldg 66 (GIS Figure)
31	SG Bldg 7 (GIS Figure)
32	SG FMS 36 Utilities (GIS Figure)
33	SG Verizon generator (GIS Figure)
34	SG_Layout_EnvCon (GIS Figure)
35	NGTC Parade Schedule
36	Sea Girt NGTC Well Summary – Excerpt from 2023 NJARNG Well Inventory Report
37	NJARNG_SeaGirtSiteDevelopmentPlan_Final Combined
38	New Jersey ARNG 2017 Periodic Review Binder (Firing Ranges)
39	Task 1 & 8 Topo & Boundary Plans
40	Task 2 Gas-Elec-Comm Plans
41	Task 2 Storm-Sanitary-Water Plans
42	2023 rem_timeframe_notification_SeaGirt_QTR1_R1
43	Beach View
44	06297_Prop_Seg_K_and_L_Ease
45	06297_SEG_L_K_EASE_EXH
46	600 SEAGIRT (GIS Data relating to Communication Line)
47	Tmobiel_TAT_I (GIS Data relating to Communication Line)
48	999-881-01 (Communication Line Drawing)
49	999-881-01-02 (Communication Line Drawing)
50	999-881-01-03 (Communication Line Drawing)
51	999-881-01-04 (Communication Line Drawing)
52	999-881-01-05 (Communication Line Drawing)
53	999-881-01-06 (Communication Line Drawing)
54	999-881-01-07 (Communication Line Drawing)
55	999-881-01-08 (Communication Line Drawing)
56	999-881-01-09 (Communication Line Drawing)
57	Grd field 999-881-01
58	MH details MH 1
59	Site Plan SEGRNJ60-09-001-100-00001-01
60	Conduit audit TAT 14 KL
61	NJARNG ICRMP Final
62	Quarters One Preservation Plan_FINAL_01042016
63	Rutgers_Geology_Report_SG
64	NJ_SI_Report_Final_1
65	RF_Figure 1 Sea Girt Range Use and IDs
66	Draft Sea Girt Wetland LOI Plan
67	2017 WCHEP Final
68	Draft Report Rare Species Survey 2022
69	Extract site plans for electrical distribution 20 Mar 23

- The information provided during this presentation was compiled based on prior construction projects completed at Sea Girt by NJDMAVA. There may be more or less requirements based on the specific work being proposed under the transmission projects.
- All additional requests for information shall be made to NJDMAVA via the OPRA process found at https://www.nj.gov/military/community/public-access/opra/
- **To access this document package, send a request to:**
  - Jill Priar (Jill.Priar@dmava.nj.gov);
  - and Steven Hoffman (Steven.Hoffman@dmava.nj.gov)

Mid-Atlantic Offshore Development, LLC

New Jersey Offshore Wind Solicitation #3 Bidders' Conference

March 24, 2023

MID-ATLANTIC
OFFSHORE DEVELOPMENT

Who We Are

https://www.midatlantic-offshore.com/

https://www.edf-re.com/

https://www.shell.com/energy-and-innovation/new-energies.html

Mid-Atlantic Offshore Development

- Mid-Atlantic Offshore Development (MAOD) is a 50/50 joint venture between EDF Renewables North America and Shell New Energies US
- MAOD is separate and distinct entity from Atlantic Shores Offshore Wind, will ensure that it satisfies any FERC requirements for standards of conduct and affiliate requirements

EDF Renewables Experience

- In North America, EDF has developed 20GW of renewables projects over past 20 years
- EDF operates 10GW of wind, solar and bioenergy projects
- EDFR affiliate developed, constructed, maintaining and operating subsea transmission facilities (i.e., Blythe and Teesside Offshore wind project in UK)
- EDF Power System & Transmission Engineering Centre (CIST) and EDF R&D available to provide technical, project design, construction development, construction and operation for HVDC systems

Shell New Energies Experience

- In North America, Shell is the largest U.S. OCS leaseholder and producer
- In the US, two JVs with offshore leases and an estimated capacity of 4.1 GW.
- Shell consortium built Borssele III & IV wind farm off the Dutch coast. First power August 2020
- Shell 79.9% shareholder in CrossWind consortium
- July 2020 Shell and Eneco awarded tender for the 759MW Hollandse Kust (noord)

MID-ATLANTIC OFFSHORE DEVELOPMENT

NJ BPU SAA Order Scope for Larrabee Collector Station

MAOD Facilities

- 230 kV 3 x breaker and a half substation with a nominal current rating of 4000A and four single phase 500/230kV 450MVA autotransformers to step up the voltage for connection to the Smithburg substation
- Design and site preparation shall be suitable for expansion to a 230 kV 4 X 230 kV breaker and a half substation and seven single phase 500/230 kV 450 MVA autotransformers to step up voltage for connection of two circuits to Smithburg substation

Land for OREC Generator Facilities

- Land should be suitable to accommodate installation of four (4) individual converters and circuits with equivalent rating of 1400MVA at 400 kV
- MAOD will commit to work with NJBPU and Staff, PJM, the relevant transmission owners, and all future developers to make land access available for construction of converters by those future developers to support the integration of OSW generators to achieve the OSW goals of New Jersey
- Offshore developers to receive equal and adequate access to MAOD land to construct and maintain equipment related to their projects

Larrabee Collector Station Scope

Scope

- Larrabee Collector Station (LCS): MAOD to design, build and operate the LCS where offshore wind projects will be connected
- Land: Awarded offshore wind projects will be provided with 8 -10 acre parcels, with MAOD providing site preparation and interface implementation. Site preparation will consist of tree clearing, clearing and grading with native soil, seeding, temporary fencing and access roads

Expected Interfaces

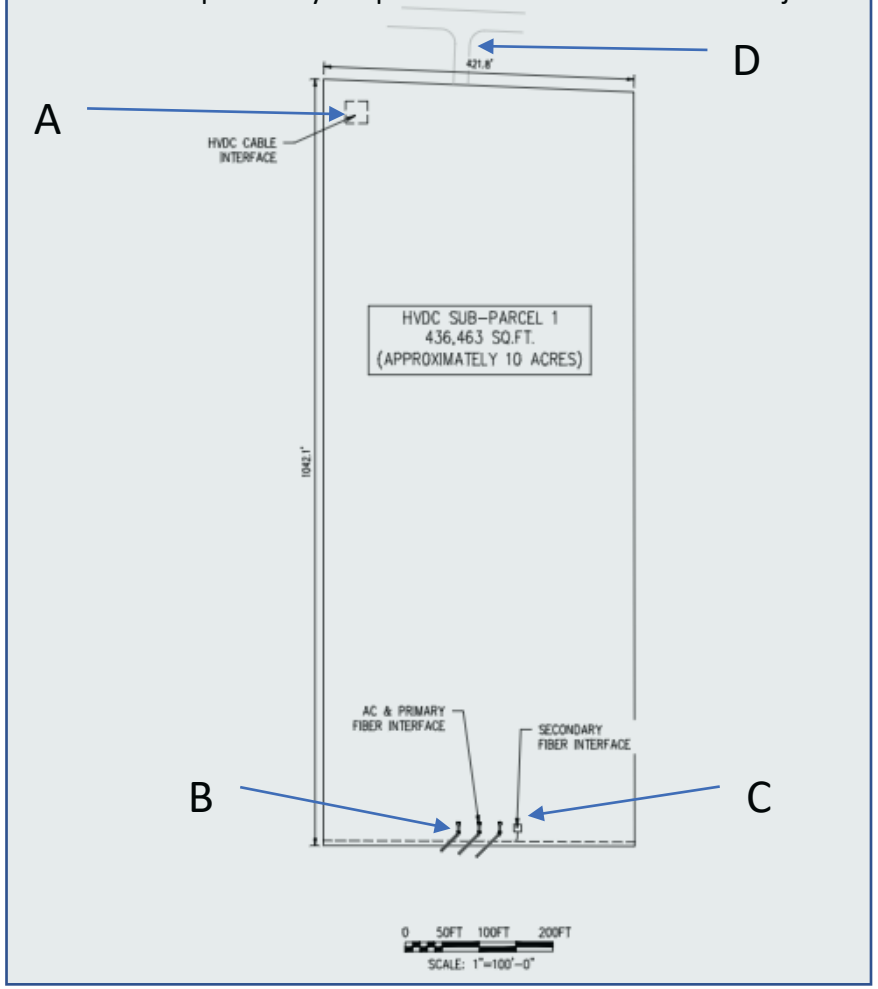
A. DC Power interface: Vault (or equivalent) “North” of each parcel where DC cables will be entering the parcel

B. AC Power interface: Dead-end structure “South” of each parcel, with slack span (or equivalent) between onshore converter and interface

C. Protection and control interface with LCS: Primary with AC Power Interface and redundant path adjacent to primary

D. Access road: separate access road anticipated

Illustrative parcel layout provided for Offshore Wind Project



MID-ATLANTIC OFFSHORE DEVELOPMENT

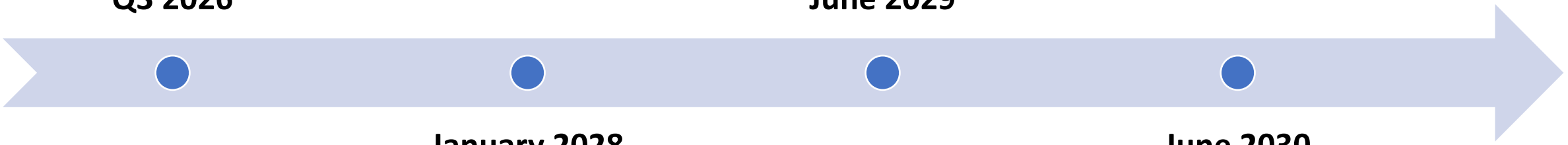
Permitting Responsibilities

Scope Overview

- MAOD will be obtaining the following **state and local** permits related to the AC switchyard and the land on which DC converter stations will be installed
- MAOD will not be obtaining any federal, or New Jersey state and local permits or authorizations on behalf of the awarded offshore developer(s). Each offshore developer will be responsible for permitting their transmission lines to the parcel and for the construction of their equipment on the MAOD parcel

MAOD Permitting Scope	Agency
NJPDES 5G3 Stormwater General Construction Permit	NJDEP Division of Water Quality, Bureau of Stormwater Permitting
NJDEP Water Use / Temporary Dewatering Permit	NJDEP Division of Water Supply & Geoscience
Soil Erosion and Sediment Control Plan Permit	New Jersey Natural Resources Conservation Program, Freehold Soil Conservation District
Howell Township Major Site Plan Approval	Township of Howell, Department of Community Development & Land Use
Howell Township Tree Removal Permit	Township of Howell, Department of Community Development & Land Use

Project Schedule



Site preparation work Completion

Q3 2026

January 2028

LCS Circuit 1 ready for Backfeed

LCS Circuit 2 ready for Backfeed

June 2029

June 2030

LCS Circuit 3 ready for Backfeed

In Service Dates of Larrabee Collector Substation circuits are aligned with NJBPU solicitation schedule and related JCP&L project work.

MID-ATLANTIC OFFSHORE DEVELOPMENT

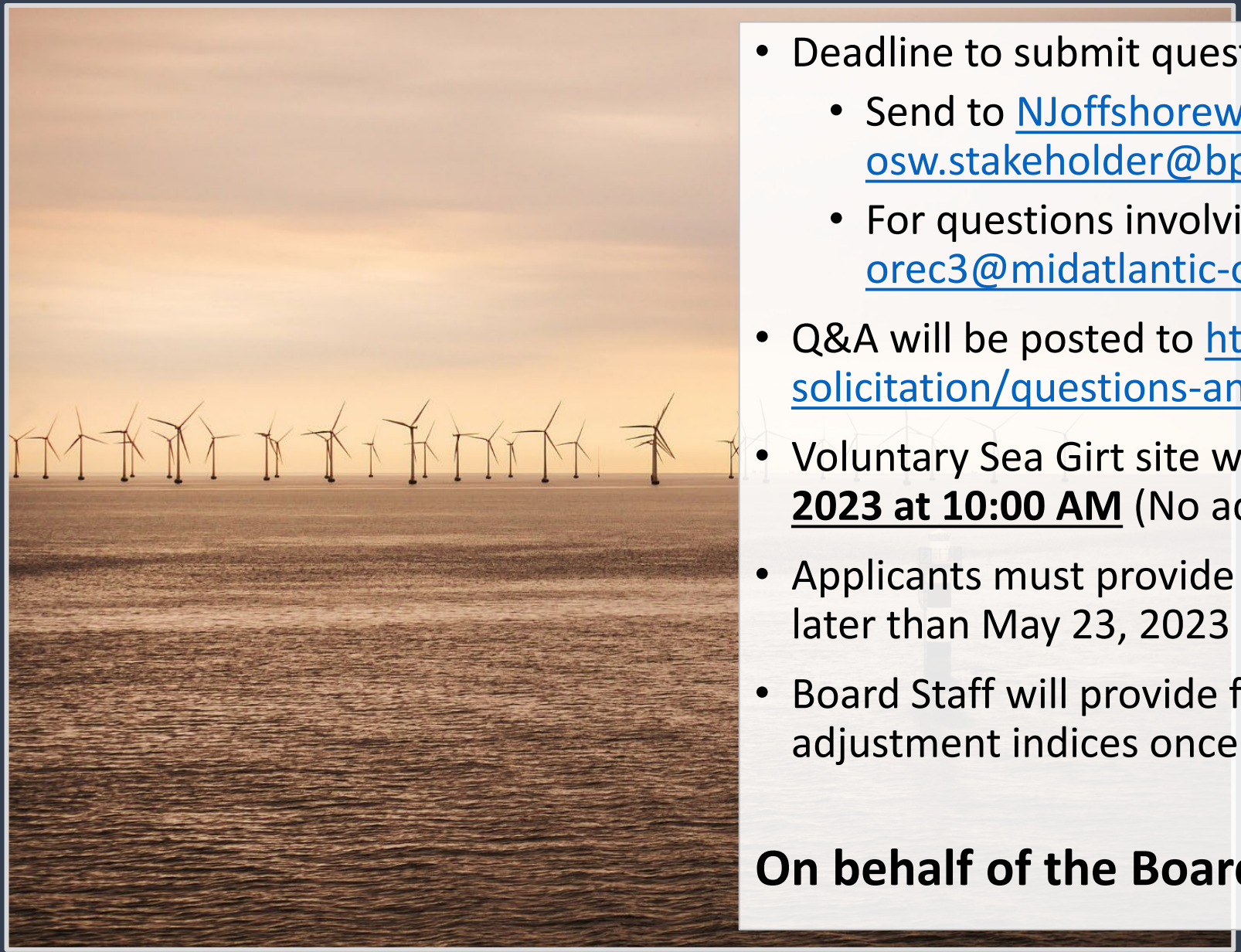
Thank You

Questions?

Contact Info

Matt Virant
matthew.virant@midatlantic-offshore.com
858-521-3552

Next Steps



- Deadline to submit questions is May 12, 2023
  - Send to NJoffshorewind@levitan.com and osw.stakeholder@bpu.nj.gov
  - For questions involving the LCS, please also cc: orec3@midatlantic-offshore.com
- Q&A will be posted to https://njoffshorewind.com/third-solicitation/questions-and-answers on a rolling basis
- Voluntary Sea Girt site walk-through is **Monday, April 10, 2023 at 10:00 AM** (No additional dates available)
- Applicants must provide a Notice of Intent to Respond no later than May 23, 2023
- Board Staff will provide final base values for the inflation adjustment indices once the values are published

On behalf of the Board and Board Staff, thank you.