



12 E. 49th Street | 11th Floor  
New York, NY 10017

September 26, 2023

**PUBLIC COPY**

New Jersey Board of Public Utilities  
44 South Clinton Ave  
Trenton, New Jersey 08625  
via: Levitan ShareFile Portal

RE: Attentive Energy LLC Response to Clarifying Questions Set 2 (part 1 of 2), Received on September 19, 2023

Dear Board Staff and Levitan & Associates,

Attentive Energy LLC ("Attentive Energy") is excited to have the opportunity to provide the New Jersey Board of Public Utilities ("BPU") with additional information regarding its Attentive Energy Two Project (the "Project") submission into BPU's third offshore wind solicitation. The Project will supply the State of New Jersey with up to 1,342 megawatts ("MW") of clean and renewable offshore wind energy, and it is expected to power more than 600,000 homes and generate up to \$12 billion in economic activity. Additionally, Attentive Energy Two will help the State prepare for the impacts of climate change and pave the way for New Jersey to achieve its greenhouse gas emissions targets while creating economic opportunities for communities statewide and prioritizing affordability for ratepayers. Attentive Energy, through [REDACTED] TotalEnergies [REDACTED], has deep global offshore development and operating experience, combined with a track record of investing in and partnering with local communities in the State through decades of respective company footprints in New Jersey. This Project will continue this track record of economic development by delivering up to 15,000 job-years for New Jersey residents.

Attentive Energy respectfully provides the following responses to BPU's letter dated September 19, 2023 providing Clarifying Questions Set 2 for Attentive Energy's Application submitted in response to BPU's third offshore wind solicitation.<sup>1</sup> This letter contains responses to the first part of Clarifying Questions Set 2. The BPU granted an extension to the Set #2 Clarifying Information Submission Deadline to 5:00 pm Eastern Time on October 3, 2023. Responses to questions on the Project Financing Plan, Project Revenue Plan and Strategy, Interconnection Plan, Application Form – Revenues worksheet, and Application Form – Bills-of-Goods worksheet will be provided by that extended deadline.

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<sup>1</sup> Portions of this response contain confidential, proprietary, and/or commercially-sensitive information that constitute trade secrets or are submitted to the BPU by Attentive Energy as a commercial enterprise or derived from information obtained from such commercial enterprise and that if disclosed would cause substantial injury to the competitive position of such enterprise. Attentive Energy has submitted a Confidential Copy of this response that should be treated as a non-public record that is exempt from disclosure to the extent permitted under applicable laws and/or as expressly set forth in the Solicitation Guidance Document ("SGD"). Attentive Energy has also submitted a redacted version of this response that should only be released to the public to the extent permitted under applicable laws and/or as expressly set forth in the SGD. Attentive Energy's General Counsel Murray Greene attests to the truth and accuracy of the confidential nature of the information marked as confidential in these documents. All notices or other communications regarding the confidential nature of this response should be directed to Murray Greene at [murray.greene@totalenergies.com](mailto:murray.greene@totalenergies.com).

## Applicant Information

### 1. Section 1.15: Regarding the credit ratings provided in Tables 1-8 and 1-9:

#### a. What are the dates of the provided credit ratings?

Table 1-8 provides TotalEnergies SE's credit ratings. Dates for each rating are below<sup>2</sup>:

- TotalEnergies SE's S&P long-term credit rating of A+ is dated June 30, 2022
- TotalEnergies SE's Moody's long-term credit rating of A1 is dated March 21, 2023
- TotalEnergies SE's Fitch long-term rating of AA- is dated December 7, 2022



#### b. Are the provided ratings the most recent issuer or senior long-term unsecured ratings?

Yes, the ratings provided in response to question 1.a above are the most recent issuer or senior long-term unsecured ratings.

#### c. If not, please provide the most recent issuer or senior long-term unsecured ratings.

N/A, please see response to question 1.b.

#### d. Table 1-9 is inconsistently labeled, please confirm that the provided ratings are for [REDACTED] and not TotalEnergies SE.

Please see response to question 1.a. This was a typographical error, and the ratings in Table 1-9 were intended to reference [REDACTED] and not TotalEnergies SE.

#### e. Has [REDACTED] been placed on a watch list or received a notice of potential changes in the last twelve months or that are currently outstanding from any major credit rating agency?

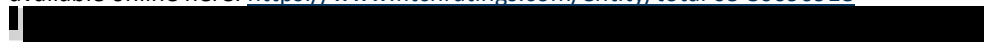
Related to the TotalEnergies SE ratings, no. Moody's is expected to issue a new credit opinion in the coming weeks; however, TotalEnergies SE's rating will be unchanged.

Related to the [REDACTED] ratings, no; nothing has been flagged in recent credit reports.

#### f. If so, please provide.

N/A, please see response to question 1.e.

<sup>2</sup> S&P and Moody's ratings for TotalEnergies SE are available on its website here: <https://totalenergies.com/investors/bonds/ratings>. Date of last review is provided. TotalEnergies does not solicit Fitch for a rating, therefore TotalEnergies does not present the Fitch rating on its website. Rather, the Fitch rating is available online here: <https://www.fitchratings.com/entity/total-se-80090918>



2. Appendix 1-J: Why were 2022 financial statements for [REDACTED] not provided? If audited 2022 financial statements are available, please provide them. If audited 2022 financial statements are not available, please provide unaudited financial statements if available.

Financial statements for [REDACTED] Inc. for the period ending December 31, 2022 are provided with this transmittal. [REDACTED]

### Project Descriptions

3. Section 2.2.1: Regarding the project location and indicative layout.

a. Is the absence of wind turbines on the [REDACTED] due to wind availability or other factors? If other factors, please explain.

[REDACTED]

b. Has Attentive Energy factored in the lease area boundary setbacks for [REDACTED] as well as tips of the turbine blades?

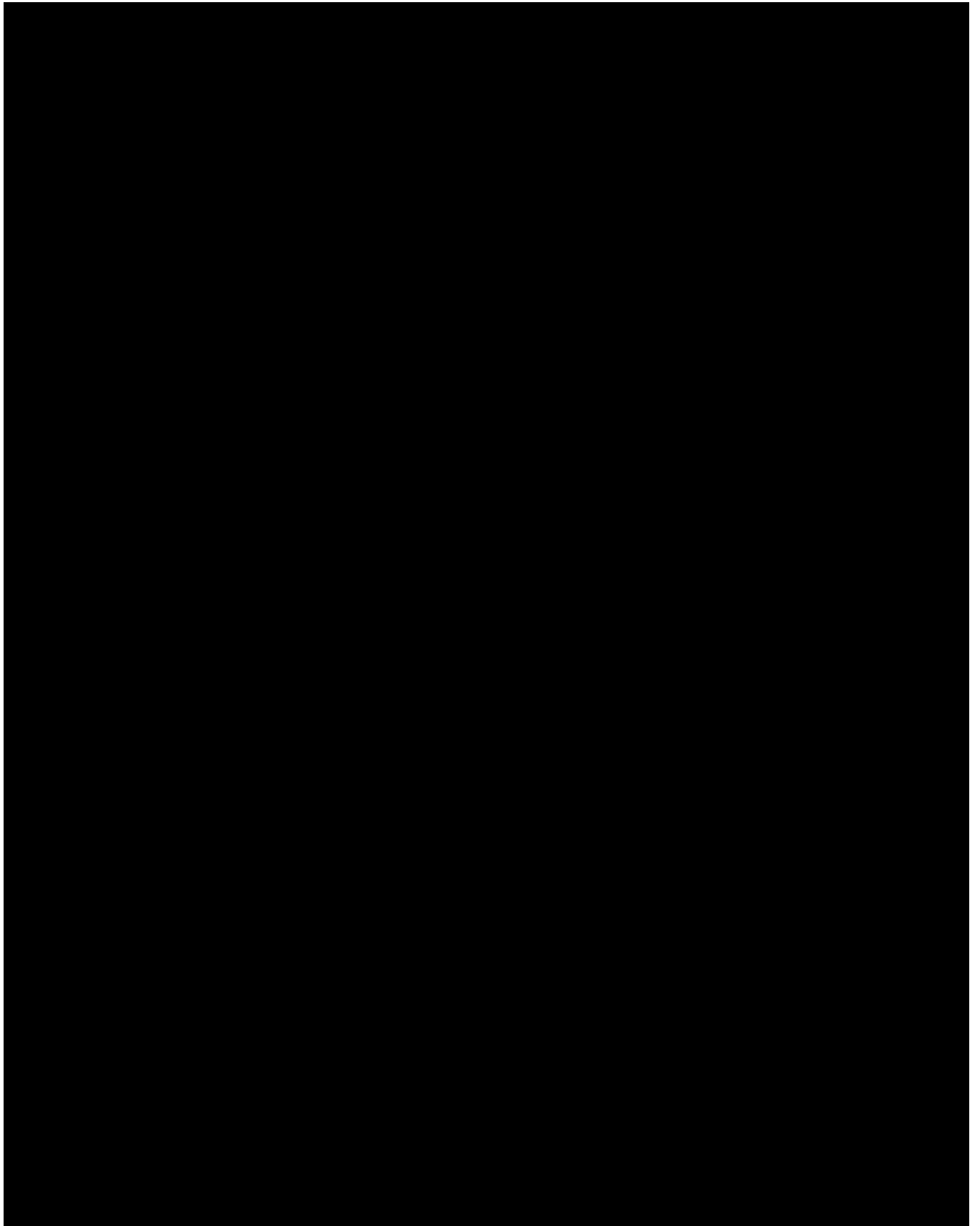
Yes, Attentive Energy has factored in the Lease Area boundary setbacks for [REDACTED] as well as tips of the WTG blades. WTGs (including rotor/swept area) are wholly within the Lease Area, excluding the No Surface Occupancy area.

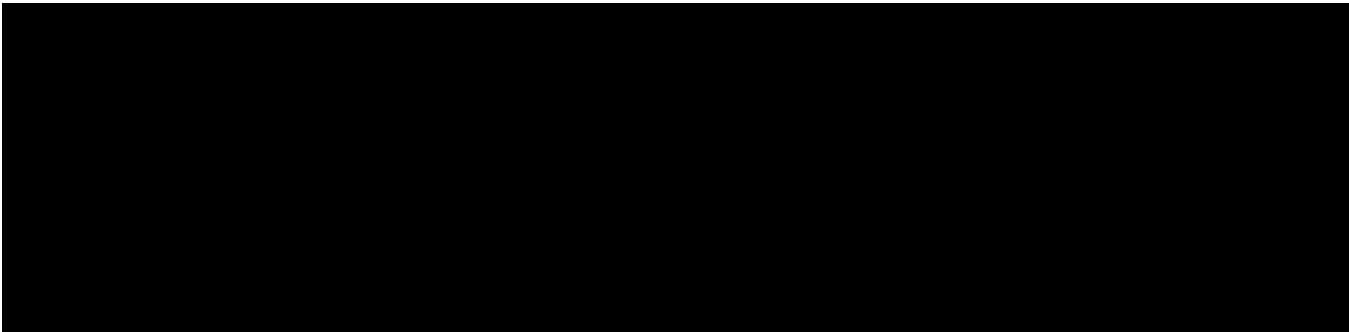
4. Section 2.2.1. Figure 2-4 indicates that [REDACTED]

a. Please clarify which cables are active and which are abandoned.

Attentive Energy has extensively developed its Project design and offshore routing based on several factors, including [REDACTED]

[REDACTED] This information is provided in Table 1 below. Attentive Energy will identify the exact crossings later in the Project's development phase, once the Project's layout is finalized.

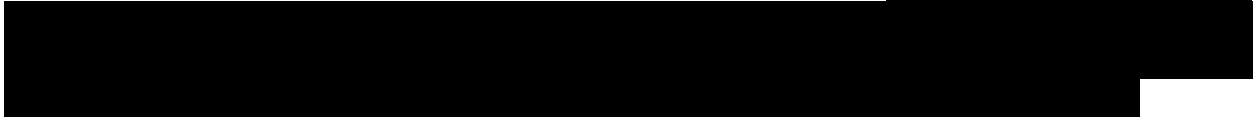




b. Please discuss how the installation of [redacted] inter-array cables, and export cable will:

i. Accommodate [redacted] and protect their integrity.

Attentive Energy, through its ongoing survey campaigns and desktop investigations, has identified multiple site constraints that are actively being evaluated and mitigated. [redacted]



ii. Avoid creating additional potential risk to commercial or recreational fishing.

Attentive Energy, through its detailed engineering and installation assessment exercises, will avoid creating additional potential risk to commercial or recreational fishing to the extent practicable. Some of the efforts to be undertaken by Attentive Energy include:

- [redacted]

- [REDACTED]

Attentive Energy recognizes that maritime and fishing communities have expressed concerns about layout designs, navigation safety, and fishing access. In recognition of concerns from various stakeholders, Attentive Energy has developed layout principles to guide discussions about site layout and mitigate risks to mariners. These layout principles are provided on page 2-32 of the Application Narrative and page 11-A-23 the Fisheries Protection Plan, which is Attachment 11-A to the Application. These rules have been developed in collaboration with Attentive Energy’s Fisheries Representatives (“FRs”) and through feedback gained through the engagement of the recreational and commercial fisheries community. These principles may be adapted in the future as additional feedback is received from stakeholders.

**iii. Avoid adverse interactions with existing and potential future artificial reefs; please describe any engagement Attentive Energy has had with DEP on this matter.**

Attentive Energy understands that, like all offshore wind areas, there are diverse uses of the Lease Area and surrounding waters. Attentive Energy commits to responsible coexistence with other ocean users. As such, Attentive Energy places a specific focus on balancing responsible offshore wind development with important fishery resources and uses that may be present in the Project Area. Attentive Energy intends to avoid all current and planned future artificial reef sites. Attentive Energy’s indicative WTG locations, inter-array cables, and export cable routes are sited to avoid known artificial reefs as are identified on navigational charting and publicly available documents.

Regarding existing and potential future artificial reefs within New Jersey State waters, Attentive Energy hosted a detailed cable routing discussion with the New Jersey Department of Environmental Protection (“NJDEP”) on June 6, 2023, as noted in Table 13-2 of the Application. The objective of the meeting was to identify Attentive Energy’s current export cable routing options and identify various constraints, including artificial reefs, in the Project Area and surrounding regions. The meeting provided a forum for meaningful discussion with the NJDEP on constraints analysis and mitigation along the Project routes.

[REDACTED]

**c. Please describe what Attentive Energy considers as the optimal cable corridor width as well as the minimum acceptable cable corridor width.**

The development and definition of the cable corridor width will vary as the Project progresses and depending on application, i.e., whether for permitting, installation, or operation activities. Prior to construction, during the Project’s permitting and engineering development phase, Attentive Energy will survey a relatively wide corridor for reconnaissance purposes to establish where a viable finished corridor might lie. [REDACTED]

[REDACTED] At later survey stages, such as for pre-installation, higher resolution surveys for cable engineering, hazard avoidance and archaeology purposes may be required to cover smaller areas, and for these activities Attentive Energy may utilize a narrower cable corridor.

During Project operation, the primary consideration is maintenance corridor width clearance between adjacent assets for cable repairs, which is primarily a function of water depth. Attentive Energy considers a corridor width of [REDACTED] as a minimum to ensure proper clearance to perform cable repair activities during a failure event, etc.

These parameters will be further refined throughout the Project’s detailed engineering exercises, after incorporating Geotechnical and Geophysical survey data.

**d. What permits or consents are needed from the owners of the existing cables? How will Attentive Energy obtain these and how long will that take?**

Attentive Energy will commence infrastructure crossing agreement processes following a Board Decision and submittal of the first round of state and federal permit applications, as outlined in Table 14-1 in the Application Narrative. [REDACTED]

[REDACTED] More information regarding this timeline is included in Attachment 12-A to the Application, which is the Attentive Energy Two Project Schedule.

**5. Section 2.3: Table 2-5 indicates that the selected [REDACTED] is commercially available. Please confirm that this is correct, or if not, provide the development status of the [REDACTED] and the timeframe for the equipment to be type-certified and become commercially available.**

Attentive Energy confirms that the [REDACTED] is considered commercially available, as the term “commercially available” is utilized within the industry. [REDACTED]

Attentive Energy provided further clarification on the development and certification of the [REDACTED] within in its response to the NJ OSW Administrative Completeness Review Findings, submitted on September 1, 2023. In summary, that response highlighted that this WTG has been presented and reviewed by [REDACTED]

Attentive Energy has already performed due diligence through its corporate engineering department, OneTech, on the current product development plan and will continue to engage [REDACTED]

[REDACTED] Attentive Energy will continuously assess the progress of the proposed WTG to verify no deviation in the development plan would affect the ability of Attentive Energy to use the technology for the Project. [REDACTED]

**6. Section 2.7.4, p. 2-46: The Application states that** [REDACTED]

**Do any of Attentive Energy’s project options utilize**

**a** [REDACTED]  
Attentive Energy has adopted a PDE approach to engineering and siting development which extends to [REDACTED] This strategy allows for flexibility in both design and supply chain evolution throughout the development phase of the Project. While a [REDACTED]

[REDACTED] As of the Project’s conceptual design stage, this scenario is most likely to occur for Project options that are based on the [REDACTED] and is primarily driven by water depth. It is for this reason that for certain Project options utilizing the [REDACTED], Attentive Energy has offered both the [REDACTED].

**7. Section 2.7.1:** [REDACTED]

**a. Please summarize Attentive Energy’s progress to date** [REDACTED]

Since 2019, when the Attentive Energy team participated in the BPU’s Ports and Harbors Roundtable Discussion, it has been committed to working with the State and supporting New Jersey’s objective to develop port infrastructure for the offshore wind industry. The Attentive Energy team has further supported [REDACTED]



[Redacted]

[Redacted]

[Redacted]

b. Is Attentive Energy aware of significant logistical constraints that would hinder or otherwise impair [Redacted]

[Redacted] What mitigation measures or remedies have been considered to reduce such constraints?

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

c. Page 3-46 indicates

[Redacted]

As described further in Attentive Energy's Application and included in

[Redacted]

[Redacted]

Nevertheless, as stated in Attentive Energy's Application,

[Redacted]

Finally, Attentive Energy hereby confirms that

[Redacted]

[REDACTED]

As described in question 7.c and in Attentive Energy's Application, [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

As described in question 7.c, [REDACTED]

[REDACTED]

As described in the response to question 7.c, [REDACTED]

[REDACTED]

[REDACTED]

Nevertheless, Attentive Energy stands by its [REDACTED]

[REDACTED]

**f. Has Attentive Energy had any preliminary discussions with other ports?**

Yes. Attentive Energy has conducted extensive engagement with marshalling port owners and master tenants along the East Coast. [REDACTED]

[REDACTED]

[REDACTED] Please see Section 2.7 of the Application Narrative for additional information regarding Attentive Energy's thorough evaluation of the marshalling port landscape.

**g. What alternatives have been considered if Attentive Energy is not able to [REDACTED] [REDACTED]? Please summarize what alternatives have been identified and the timing associated with implementing an alternative to support [REDACTED]**

Please see Attentive Energy's response to questions 7.d and 7.e, which describe the extent to which Attentive Energy's Project options [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Finally, Attentive Energy provides the following information to clarify the [REDACTED]

[REDACTED]

[REDACTED]

[Responses to questions 8-9 (Project Financing Plan) and questions 10-24 (Project Revenue Plan and Strategy) will be submitted by October 3, 2023.]

### Economic Development Plan

25. Section 8.2.1: Page 8-10 states [REDACTED]

[REDACTED]

[Redacted]

[Redacted]

26. Section 8.2.1: Page 8-12 states

[Redacted]

First, it is generally the role of the offshore wind developer to provide

[Redacted]

[Redacted]

[REDACTED]

[REDACTED]

### Environmental Protection Plan and Emissions Impacts

**27. Section 10-A:** Table 10-A-13 lists Attentive Energy’s proposed funding for various research programs through [REDACTED]. Please provide copies of any memoranda of understanding (“MOUs”) or other agreements that Attentive Energy has executed with these research partners. If there are no formal agreements with these partners, please clarify the status of Attentive Energy’s engagement with each of these proposed partners.

Attentive Energy has executed agreements with multiple partners, which are provided as Attachment 8-G to Attentive Energy’s Application. The agreements are in the form of Letters of Intent, which were developed through, and backed by, extensive discussions with partners. The agreements outline how the specific programs will be implemented and achieved, as well as Attentive Energy’s financial commitments.

Attentive Energy has agreed with partners to develop binding agreements upon award in the BPU’s third offshore wind solicitation and will continue to work in the months ahead to further develop the programs. Given that the partnerships were developed, in part, to complement existing efforts by the New Jersey Research and Monitoring Initiative, Attentive Energy welcomes engagement with, and input from, the NJDEP and the BPU on these programs as they develop and progress.

**28. Attachment 10-A:** Please explain how Attentive Energy will consider the cumulative impacts of New Jersey’s offshore wind program and interactive impacts with offshore wind development plans in neighboring states.

Attentive Energy will submit a Construction and Operations Plan (“COP”) to the Bureau of Ocean Energy Management (“BOEM”). BOEM will use this COP as the foundation for an environmental impact statement (“EIS”), [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] The proposed fisheries and environmental research and conservation efforts will support current and future offshore wind projects, helping to ensure regional and cumulative impacts are considered and addressed.

29. **Attachment 10-A, Appendix E:** Attachment 6 of the SGD specifies protective measures for avian and bat resources. Attentive Energy’s response states, [REDACTED]

[REDACTED] (italics added.)

[REDACTED]

Attentive Energy’s environmental team is a group of dedicated conservationists, with a long collective history working on wildlife issues. Demonstrating its commitment to being an environmental steward, Attentive Energy aims to achieve a [REDACTED]

[REDACTED]

[REDACTED]

30. **Baseline Environmental Characterization:** Please explain the fishing restrictions, if any, in the Scallop Closed Area, 2021 Mid-Atlantic Access Area, Mid-Atlantic Exemption Area, Northeastern United States Closed Area, Mid-Atlantic Coastal Waters Area, and Waters off New Jersey Closure Area, and how the status of these areas impacts the Project design.

The Attentive Energy Lease Area falls entirely [REDACTED]

[REDACTED] The Atlantic sea scallop fishery is managed using a series of rotational access areas that restrict where and when scallop vessels can fish, benefiting both habitat and scallop populations. The scallop rotational areas are managed by National Oceanic and Atmospheric Administration (“NOAA”) National Marine Fisheries Service (“NMFS”) and the New England Fisheries Management Council based upon biological indicators of ecosystem health, and therefore there is no fixed schedule in which areas are opened or closed. [REDACTED]

[REDACTED]



Such a dynamic closure and opening system can lead to changes in commercial fishing behavior and vessel traffic in and around the Project Area over time.



Attentive Energy's Project design will continue to be informed by these engagements and its review of site constraints, including fisheries. Please see the response to question 4.b.ii above regarding steps Attentive Energy has taken to consider input from fisheries, such as developing layout principles to guide discussions about site layout and mitigate risks to mariners.

**31. Attachment 10-B: The Data Management and Availability Plan includes the statement: "An extensive list of figures showing areas of data collection and study are included in the Baseline Assessment, which is provided as Appendix A of the EPP (Attachment 10-A) in this Application." Please provide a clearer indication of which figures in the Baseline Environmental Characterization this is referring to.**

The list of figures that show areas of data collection and study area from the Baseline Environmental Characterization Report, which is included as Attachment 10-A: Appendix A to Attentive Energy's Application, include:

- Figure 1-1. Location of Lease Area and Indicative Offshore Export Cable Routes
- Figure 1-2. Indicative Onshore Routes Between Landfall and POI
- Figure 2-1. Proposed FLiDAR Deployment Location
- Figure 2-2. Approximate Locations of 2023 SPI-PV and Grab Sampling in the Lease Area
- Figure 3-1. BOEM Sand Resource Areas and USACE Sand Borrow Areas
- Figure 3-2. Benthic Sediments of New Jersey Continental Shelf
- [Redacted]
- Figure 3-4. Artificial Reefs Near the Offshore Project Area
- Figure 3-5. Marine Protected Areas Near the Offshore Project Area
- Figure 3-6. Submerged Aquatic Vegetation within the Manasquan River
- Figure 4-1. New Jersey Landscape Regions Near the Onshore Project Area
- Figure 4-2. Wetlands Near the Onshore Project Area
- [Redacted]
- Figure 4-4. New Jersey Protected Species Habitat by Rank Near the Onshore Project Area
- [Redacted]
- Figure 4-6. Finfish Migration Pathways Near the Onshore Project Area
- Figure 4-7. NJDEP Macroinvertebrate Monitoring Stations Near the Onshore Project Area

- Figure 5-1. Farmlands Identified Near the Onshore Project Area  
[REDACTED]
- Figure 5-3. Overburdened Communities Near the Onshore Project Area
- Figure 5-4. Limited English Speaking Communities Near the Onshore Project Area
- Figure 5-5. Contaminated Sites Located Near the Onshore Project Area
- Figure 5-6. UXO Near the Offshore Project Area
- Figure 5-7. Flight Track Data in the Vicinity of the Lease Area – November 2022
- Figure 5-8. Instrument Flight Regulation Aeronautical Chart  
[REDACTED]
- Figure 5-10. AIS Vessel Tracking Locations for Cargo and Tanker Vessels
- Figure 5-11. Prime Fishing Grounds Near the Offshore Project Area  
[REDACTED]
- Figure 5-14. AIS Vessel Tracking Locations for Fishing Vessels
- Figure 5-15. Fishing Seasons of Key Species of Finfish in the State of New Jersey
- Figure 5-16. Fishing Seasons of Key Species of Shellfish in the State of New Jersey
- Figure 5-17. Shipwrecks and New Jersey CRGIS Grids Near the Project Area

**32. Attachment 10-B Data Management and Availability Plan: Page 157 of the pdf states, “Attentive Energy understands the need to disseminate data to the most appropriate publicly accessible databases as soon as feasible following QA/QC to maximize the data’s exposure and utility.”**

**a. Please be more specific about the timing of when QA/QC will be conducted and when data will be disseminated.**

Different types of data will have different QA/QC and dissemination timelines. Almost all data Attentive Energy will collect is used to support federal and State permitting, with the largest data needs being for the COP. The data collected for the COP will be QA/QCed prior to COP submittal to BOEM, and public dissemination of that information will come with BOEM’s publication of a Notice of Intent to Prepare an Environmental Impact Statement (“NOI”). These data will be shared through public meetings, which are currently held in person and virtually, and via the Federal Register. For data that Attentive Energy funds the collection of but is not strictly related to the Project, the QA/QC and dissemination of these data will be conditioned by individual agreements with that research organization. Examples of this type of data includes [REDACTED]

For other Project-related data that Attentive Energy collects that is not on a timeline associated with COP submittal or review, Attentive Energy plans to work with entities to share data to the extent it is not proprietary.

**b. Will all data be proprietary to Attentive Energy or will consents from any other party(ies) need to be obtained prior to the release and dissemination of this data?**

No, not all data will be proprietary to Attentive Energy. As discussed in the response to question 32.a, some data will be made public sooner than others without external consent needed, such as data Attentive Energy has collected surveying businesses to better understand supply chain opportunities. Other data will follow the consenting process of the individual organization collecting the data, [REDACTED]

[REDACTED] Other data will be proprietary, such as the data collected for the COP—most of which will be disseminated by BOEM via the EIS process.

Some data may need to be purchased [REDACTED] or requested from federal agencies (such as fisheries landings information from the National Marine Fisheries Service). No consents are required for these data.

Some data will be required directly via land surveys which may require land access permission. The consents needed to access these areas will be secured on a case-by-case basis with the appropriate landowner.

**c. If consents are needed, how will they be obtained?**

Please see response to question 32.b. Attentive Energy will obtain consents by working with the relevant parties for each type of data. For example, consents to acquire survey data on private land will be secured directly by Attentive Energy or its third-party representative working directly with the landowner to receive written permission.

**Fisheries Protection Plan**

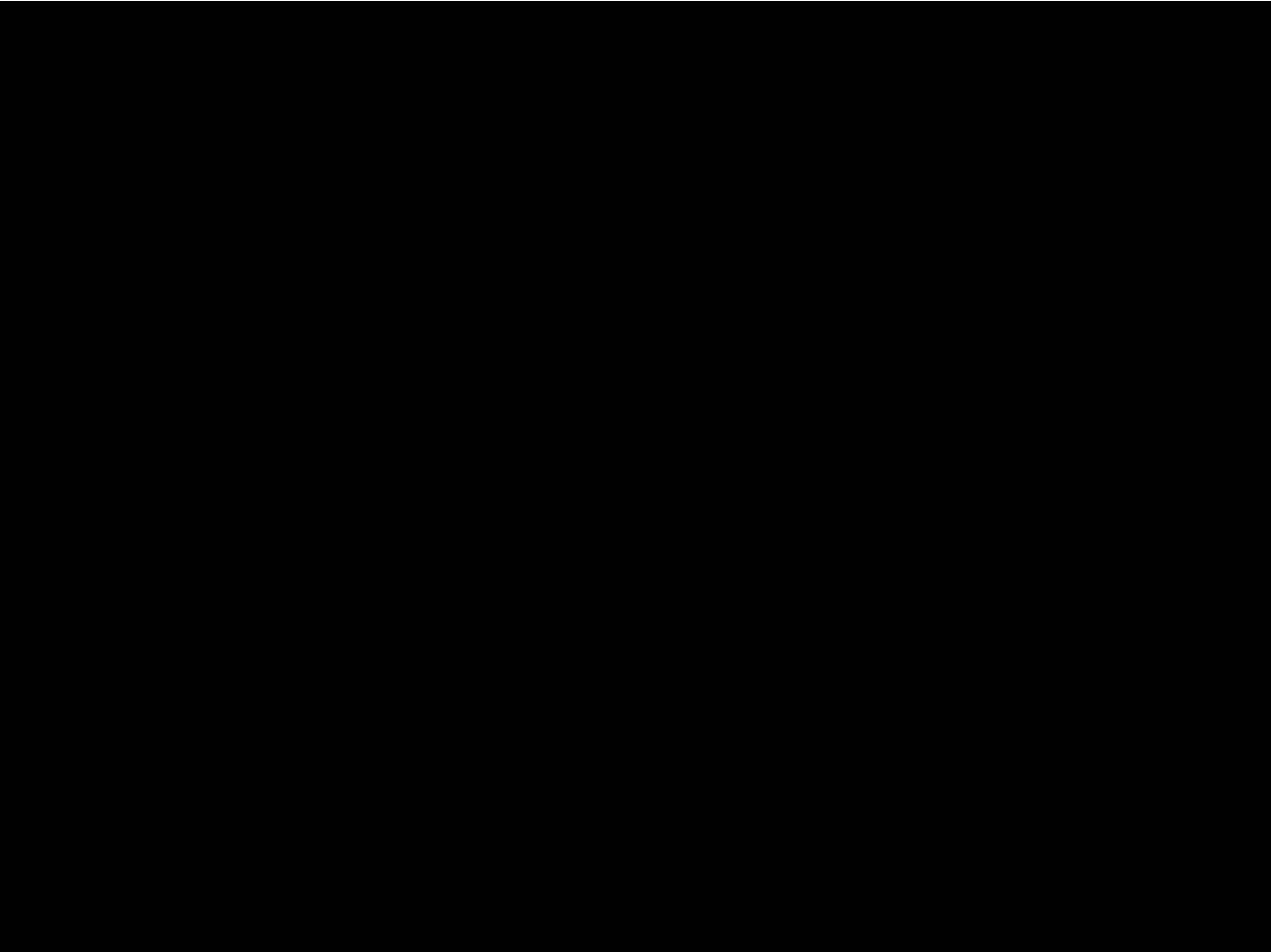
**33. Section 11: Does Attentive Energy intend to establish exclusion zones around each turbine and the offshore substation? If so, will the radius around each turbine vary based on its location within the array? What is the radius around each turbine and how will the area be marked?**

No, [REDACTED]

**34. Attachment 11-A, p. 11-A-9: Attentive proposes to use Automatic Identification Systems (AIS) for navigational safety. Please describe how AIS will be deployed, including identification of specific locations.**

Attentive Energy will deploy AIS in accordance with BOEM and USCG guidelines. To inform its Navigation Safety Risk Assessment, which will be submitted as part of the COP, [REDACTED]

[REDACTED] in Figure 10-A-1 in Attachment 10-A (the Environmental Protection Plan) to Attentive Energy's Application. [REDACTED]



Please see the response to question 36 for additional information on AIS.

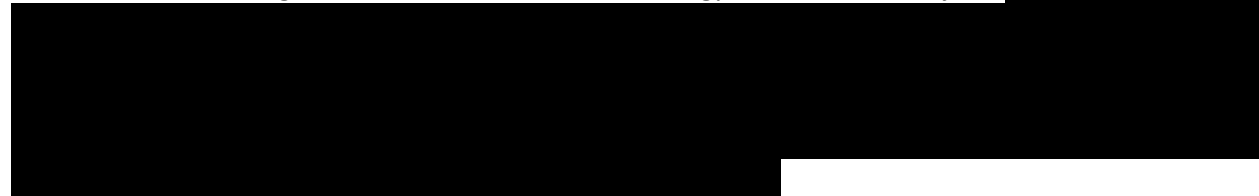
**35. Attachment 11-A, p. 11-A-7 and 11-A-23:** Regarding impacts to commercial and recreational fisheries, the application states that “Attentive Energy commits to developing a Project layout, construction, and operations scheme that minimizes the impacts to these industries within the Project Area.” Attachments to Section 2 include various maps that show the proposed layout of turbines within the lease area, and the inter-array cables. P. 2-7 states that the [REDACTED]



a. Have fisheries stakeholders informed you that a [REDACTED]



Yes. Through direct engagement with active members of the recreational and commercial fishing communities, including consultation with Attentive Energy’s FRs for the Project, [REDACTED]



**b. What are the design constraints with respect to the turbine grid layout?**

Attentive Energy is developing its Lease Area to deliver up to 3 GW total offshore wind capacity [REDACTED]

Attentive Energy will continue to refine the Project’s spacing, orientation, and layout in the years ahead during the development phase of the Project.

**c. Please explain how the orientation and spacing of the turbines shown in the maps addresses potential impacts to, and navigational safety concerns of commercial and recreational fisheries.**

Attentive Energy’s conceptual orientation and spacing is informed by years of proactive engagement with commercial and recreational fishing communities and the USCG. The conceptual design conforms to the USCG’s Navigation and Inspection Circular 01-19 (“NVIC 01-19”)<sup>4</sup> (2019) and its Port Access Route Study: Seacoast of New Jersey Including Offshore Approaches to the Delaware Bay, Delaware (“NJ-Delaware PARS”)<sup>5</sup> (2022), which assesses navigation safety in an area larger than, but including, Attentive Energy’s Lease Area (OCS-A 0538). Both documents provide guidance on offshore wind farm layout and spacing.

Specifically on spacing, the NJ-Delaware PARS drew on several in-depth studies including input from the Responsible Offshore Development Association (“RODA”), the Recreational Fishing Alliance (“RFA”), and local New Jersey commercial fishing vessel operators. The NJ-Delaware PARS concluded that “adequate width for a single lane for vessels 200 feet in length, in an area with less than 4,400 vessel transits per year, is 0.60 nautical miles. Larger and less maneuverable vessels will likely avoid transiting within the Lease Area, therefore the USCG does not recommend formal establishment of shipping safety fairways or other routing measures within a wind farm, within the study area at this time.” Attentive Energy’s [REDACTED] will be more fully analyzed during the Navigation Safety Risk Assessment included in the Project’s COP.

**d. Please describe any potential navigational risks posed by the current turbine spacing.**

Attentive Energy benefits from the offshore O&M experience of TotalEnergies, whose safety-driven culture has been a cornerstone of its long history of successful, reliable marine operations. As described in Question 35.c, Attentive Energy’s layout has been designed in line with all applicable navigation safety standards and regulations. Installing structures in an offshore marine environment inherently introduces new navigation and safety risks, such as increased risk of collision, allision, and extra transit times. Attentive Energy’s [REDACTED] has been discussed with both the USCG and fishing

<sup>4</sup> <https://www.dco.uscg.mil/Portals/9/DCO%20Documents/5p/5ps/NVIC/2019/NVIC%2001-19-COMDTPUB-P16700-4-dtd-01-Aug-2019-Signed.pdf?ver=2019-08-08-160540-483>

<sup>5</sup> <https://www.federalregister.gov/documents/2022/03/24/2022-06228/port-access-route-study-seacoast-of-new-jersey-including-offshore-approaches-to-the-delaware-bay>

community through face-to-face discussions reviewing draft Project layouts. The proposed layout will be further analyzed through the Navigation Safety Risk Assessment to be included in the Project's COP.

**36. Attachment 11-A, p. 11-A-23: Please explain and provide a reference for the BOEM guidelines for installing AIS on turbines.**

BOEM guidelines for installing AIS on WTGs are contained in BOEM's Guidelines for Lighting and Marking of Structures Supporting Renewable Energy Development (2021)<sup>6</sup>. Per the guidelines, AIS transponders should be placed on all significant peripheral structures ("SPS") or other significant locations within the wind energy facility and should be capable of transmitting signals marking the locations of all structures within the facility. The guidelines further outline that the "transponders should be approved by USCG based on the recommendation from the respective USCG district office."

For Attentive Energy, the respective USCG district office is District Five in Portsmouth, Virginia. The current USCG District Five guidance on AIS transponders on WTGs, contained within the District Five Local Notice to Mariners under the Offshore Structure Private Aids to Navigation ("PATON") Marking Guidance, state that AIS transponders should be installed on:

- Each SPS; and
- Intermediate peripheral structures ("IPS") adjacent to a fairway or used to identify a designated vessel transit route through the farm or closely adjacent farms, shall also be identified by a properly encoded AIS message 21.

The structures may be marked with either physical or synthetic AIS message 21 as circumstances warrant; the broadcasts should be made at sufficient power to provide a relatively uniform coverage recommended to extend at least 8 nautical miles beyond the periphery of the offshore wind farm to allow sufficient time for ship operators to detect and make any necessary course or speed alterations.

The AIS transponders must be capable of transmitting signals marking the locations of all structures within the facility. Further, the design must be approved at the USCG Headquarters level (CG-NAV) based on District Five's recommendation.

Please see the response to question 34 for information on how Attentive Energy plans to deploy AIS.

### Project Timeline

**37. Section 12.2.1: How many months before project COD does Attentive Energy need the PBI to be completed? Please describe the steps and timelines related to cable installation and supplying backfeed to the project between PBI completion and project COD.**

As described in Attachments 12-A and 12-B to Attentive Energy's Application, the Prebuild Infrastructure must be ready for Attentive Energy to pull cables by [REDACTED]

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<sup>6</sup> <https://www.boem.gov/sites/default/files/documents/renewable-energy/2021-Lighting-and-Marking-Guidelines.pdf>

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Responses to questions 38-53 (Interconnection Plan) will be submitted by October 3, 2023.]

### Permitting Plan

54. Section 14.3, Table 14-1: Does any portion of the Project and/or Prebuild Infrastructure require a request for a diversion under the New Jersey Green Acres program? Please explain why or why not.

[Redacted]

[REDACTED]

## O&M Plan

55. Section 15.4.4: [REDACTED]

a. Based on the geophysical and geotechnical surveys conducted to date, does Attentive Energy believe that a cable burial depth of 2 meters can be achieved along the entire export cable route?

Attentive Energy's Geophysical and Geotechnical surveys are currently in progress, [REDACTED]  
[REDACTED] The surveys cover the entirety of Lease Area OCS-A 0538, along the export cable corridor, and across survey corridor widths. [REDACTED]

[REDACTED] After final Geophysical and Geotechnical data is received, it will be interpreted, and a final report will be produced by early 2024 to determine the actual seabed conditions.

b. When are the results of the cable risk assessment expected to be available?

[REDACTED]

## Cost-Benefit Analysis

56. Section 17.2: Regarding Table 17-4:

a. Please provide additional information to support the claim that the [REDACTED]  
[REDACTED] What is the direct total spend, direct labor spend and direct job-years associated with the Development phase?

[REDACTED]

b. Please provide additional information that supports the reasonableness of the high ratio between secondary (indirect and induced) and direct jobs. Using the total values, this table claims that [REDACTED]

[REDACTED]



c. Please clarify whether the Increased Compensation column corresponds to labor spend. If not, please define Increased Compensation.

Yes, the Increased Compensation column corresponds to labor spend.

d. Please clarify whether the Increased Compensation column encompasses direct, indirect, induced or all economic impacts.

The Increased Compensation column in Table 17-4 encompasses direct impacts only.

e. Please provide additional information to support the reasonableness of the Increased Compensation column. If this column is assumed to encompass only direct economic impacts,

[REDACTED]

f. Please clarify whether the Cumulative Economic Benefit column corresponds to Output, Value Added, or something else.

The Cumulative Economic Benefit column corresponds to output and is inclusive of both direct and secondary impacts.

57. Section 17.3.1: Was the [REDACTED] scenario with the Project used as the basis for energy, capacity, or REC revenues in the merchant revenue assessment? If not, what scenario was used?

[REDACTED]

58. Sections 17.3.1 and 17.4: Were the same [REDACTED] simulations utilized to calculate wholesale energy price and emissions impacts?

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

59. Sections 17.3.1 and 17.4: Did [REDACTED] simulations assume that the 11 GW by 2040 offshore wind development target for New Jersey was met, save removing the proposed project in the “as-is” case? What are Atlantic Shores Project 2’s assumptions for GWh of offshore wind generation in 2040? Please provide the basis for these assumptions.

Question 59 references Atlantic Shores Project 2, but Attentive Energy has provided a response assuming the question is intended for Attentive Energy. Both the “with project” and “without project” [REDACTED]

[REDACTED]

[REDACTED]

### Application Forms

[Responses to questions 60-63 (Application Forms – Revenues worksheet) will be submitted by October 3, 2023.]

64. “Emissions Impacts Project”: Please explain why the avoided emissions of all pollutants [REDACTED].

Avoided emissions forecasts were generated via [REDACTED]

[REDACTED] Emissions reductions due to the Project were determined by comparing “with project” and “without project” [REDACTED] cases, and it is predicted that the overall PJM grid [REDACTED]

[REDACTED]

65. “Emissions Impacts Prebuild”: Please explain the source(s) for the direct emissions during the development and operations phases. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1

[Responses to questions 66-67 (Application Forms – Bills of Goods) will be submitted by October 3, 2023.]

We again thank the BPU's Offshore Wind Team for the opportunity to address clarifications related to Attentive Energy's Application. We look forward to supporting New Jersey and its communities as a long-term partner. If you have any additional questions or seek clarification to any of our responses, please do not hesitate to contact me at [christen.wittman@totalenergies.com](mailto:christen.wittman@totalenergies.com) or (508) 272-6987.

Sincerely,



Christen Wittman  
Vice President Project Development