



BOEM

Call for Information and Nominations

*Docket No. BOEM-2022-0023 – Commercial Leasing for
Wind Power Development on the Central Atlantic Outer
Continental Shelf (OCS)*

-Public-

June 28, 2022

PUBLIC



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Bureau of Ocean Energy Management (BOEM)
Office of Leasing and Plans
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123

RE: [Docket No. BOEM-2022-0023] Call for Information and Nominations – Commercial Leasing for Wind Power Development on the Central Atlantic Outer Continental Shelf

Dear Sir or Madam,

Avangrid Renewables, LLC (“Avangrid Renewables” or “the Company”) is pleased to submit its nomination areas for commercial offshore wind energy leasing on the Outer Continental Shelf (OCS) offshore the U.S. Central Atlantic coast. The nomination areas and comments contained herein reflect the extensive experience of the company and its affiliates in developing, operating, and maintaining a global offshore wind portfolio.

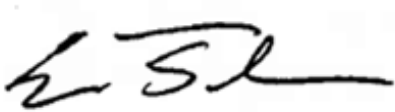
Avangrid Renewables, among the three largest wind operators in the United States based on installed capacity, is an indirect subsidiary of AVANGRID, Inc (“Avangrid”). Avangrid has approximately \$38 billion in assets in our two primary lines of business - Avangrid Networks and Avangrid Renewables. Avangrid Renewables owns and operates 8.5 gigawatts of electricity capacity, primarily through wind and solar power, with a presence in 22 states across the United States.

Avangrid supports the achievement of the Sustainable Development Goals approved by the member states of the United Nations and was named among the World’s Most Ethical companies in 2019 and 2020 by the Ethisphere Institute. Avangrid is a subsidiary of IBERDROLA S.A, (“Iberdrola”) one of the world’s largest electricity companies. The Iberdrola Group is a global energy leader and the leading wind energy producer.

This submission includes our response to Section 7 Requested Information from Interested or Affected Parties and Section 8 Required Nomination Information of BOEM’s Central Atlantic Call for Nominations.

Thank you for your consideration, and please let us know if you have any questions

Sincerely,



Eric Thumma
Vice President, New Business
Avangrid Renewables Offshore Wind

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Executive Summary

1. EXECUTIVE SUMMARY

Overview

Avangrid Renewables, LLC (“Avangrid Renewables” or “the Company”) appreciates the opportunity to submit nomination areas to the Bureau of Ocean Energy Management (“BOEM”) for commercial wind energy development in the Outer Continental Shelf (“OCS”) offshore Central Atlantic.

Avangrid Renewables is a subsidiary of AVANGRID, Inc (“AVANGRID”). AVANGRID has approximately \$38 billion in assets across two primary lines of business – Avangrid Networks and Avangrid Renewables. Avangrid Renewables, among the three largest wind energy generators in the United States, owns and operates 8.5 gigawatts (“GW”) of electricity capacity, primarily through wind and solar power installed across in 22 states across the United States.

Avangrid’s primary shareholder, IBERDROLA S.A. is a global energy leader and the number one producer of wind power in the world. This relationship allows Avangrid Renewables to benefit from the experience of Iberdrola affiliates, such as ScottishPower Renewable Energy Ltd and Iberdrola Renovables SAS. These affiliates have substantial expertise in offshore and onshore wind development, finance, construction, and operations. Collectively, they own one of the largest offshore wind portfolios in Europe, including nine projects that are already successfully constructed or in advanced development stages.

Avangrid Renewables, through its joint venture Vineyard Wind, LLC (“Vineyard Wind”) in Lease Area OCS-A 0501, is developing Vineyard Wind 1 – the first commercial-scale offshore wind project in the United States, which commenced construction in 2021. After restructuring the Vineyard Wind joint venture in 2021, Avangrid Renewables will develop, as a 100% owner, the OCS-A 0534 lease area just south of the Vineyard Wind 1 project. The OCS-A 0534 lease area includes the Park City Wind project – selling power to the State of Connecticut – and the Commonwealth Wind project, which will also be located in OCS-A 0534, was selected as part of Massachusetts’ third offshore wind competitive procurement process in December 2021. Commonwealth Wind will deliver 1,232 MW of clean energy to the residents of Massachusetts. Avangrid Renewables is also the 100% owner of Lease Areas OCS-A 0508 for the 122,000-acre Kitty Hawk Wind project, which represents upwards of 2,500 MW of potential wind capacity off the coasts of Virginia and North Carolina.

Site Selection Methodology

Avangrid Renewables’ Central Atlantic nomination areas summary is in **Figure 1-1** and **Table 1-1** below. The required nomination information for each of the proposed lease areas within the within the Central Atlantic Call Areas of A, B, C, D, E, and F are enclosed in this response. Additionally, the Company has enclosed its legal, technical, and financial qualifications to hold an offshore wind lease in federal waters. Each nomination area presented below in the Central Atlantic Call Areas represents potentially developable project areas that Avangrid Renewables encourages BOEM to continue to refine and evaluate with increasing levels of stakeholders’ engagement, data collection, and environmental assessment through the Wind Energy Area identification process. Avangrid Renewables notes that the **nomination areas proposed in the north-western call areas A, B, C, and D are favored over areas E and F due to stronger wind resources and shallower depths**, however, the order in which the nominations are listed below is based on preliminary naming convention only.

BOEM Suggested Acre Limit

In Docket BOEM-2022-0023, Section 8a states, “BOEM would consider the nomination of an area comprising approximately 80,000 acres reasonable, as it would likely be able to support an 800-megawatt wind energy facility (assuming a power density of 0.01 megawatts per acre). Nominations that considerably exceed approximately 80,000 acres, such as a nomination for all of the Call Area, may be deemed unreasonable and not accepted by BOEM.”

Avangrid Renewables notes that BOEM sized the 80,000-acre limit for an 800 MW wind farm. However, in order to optimize transmission concepts, achieve reasonable economies of scale, and to reflect latest spacing and turbine sizing, Avangrid Renewables has proposed larger nomination areas that still reflect subdivisions of the Call Areas and site selection methodology.

The nomination areas should be sized at 2.5 to 3 GW to accommodate two high-voltage direct current (HVDC) projects to achieve economies of scale. This enables offshore wind developers to secure a pipeline of projects in a given region, at a volume which can incentivize the supply chain to relocate into the region to maximize jobs and economic benefits. It also enables more efficient transportation and installation campaigns and procurement to achieve lower cost of energy. Additional site selection methodology rationale is enclosed with the Avangrid Renewables nominations submission.

Considerations for Technically Challenging Sites

Avangrid Renewables’ wishes to provide feedback to BOEM on the viability of constructing a wind energy facility in frontier areas with water depths greater than 1300 meters to advance the responsible siting and identification of wind energy areas in the Central Atlantic Call Areas. Avangrid Renewables recognizes the challenges associated with developing floating offshore wind in extreme depths, however, the Company has chosen to nominate several areas for development within Call Areas E and F as it believes potential exists to commercially develop these areas in the future, after fixed-bottom lease areas. Today, the deep-water call areas of the Central Atlantic exhibit strong wind resource but present several challenges from a development, environmental protection, and execution perspective. As deep-water floating offshore wind technology is commercialized over the coming decade, these call areas may become cost-competitive resources, able to produce renewable energy for states and load centres along the Mid-Atlantic coastline.

While floating offshore wind development does not have a hard technical limitation in terms of depth, Avangrid Renewables recognized that the areas in the Central Atlantic Call Areas beyond the continental shelf can exceed 2500-meter depths and are located in ecologically sensitive areas. In addition to extreme depths, Call Areas E and F are exposed to a high frequency of hurricane events and the presence of strong currents driven by the Gulf Stream. Dedicated hurricane (and extra-tropical storm) modeling would likely be required to develop projects in these regions. As a developer, Avangrid Renewables aligns with the goals of the east coast states and the federal government to deploy as much offshore wind as required to meet procurement targets and mitigate the impacts of climate change. **The Company stresses that BOEM should prioritize of less complex sites first such as the shallower sites of Call Areas A, B, C, and D to the west.** Deeper sites, however, will be possible to develop later (and should therefore not be removed from consideration). Overall, once the floating offshore wind industry on the West Coast achieves technical and political maturity, Avangrid Renewables anticipates that these more challenging areas will become developable.

FIGURE 1-1 CENTRAL ATLANTIC CALL AREAS - NOMINATIONS SUMMARY

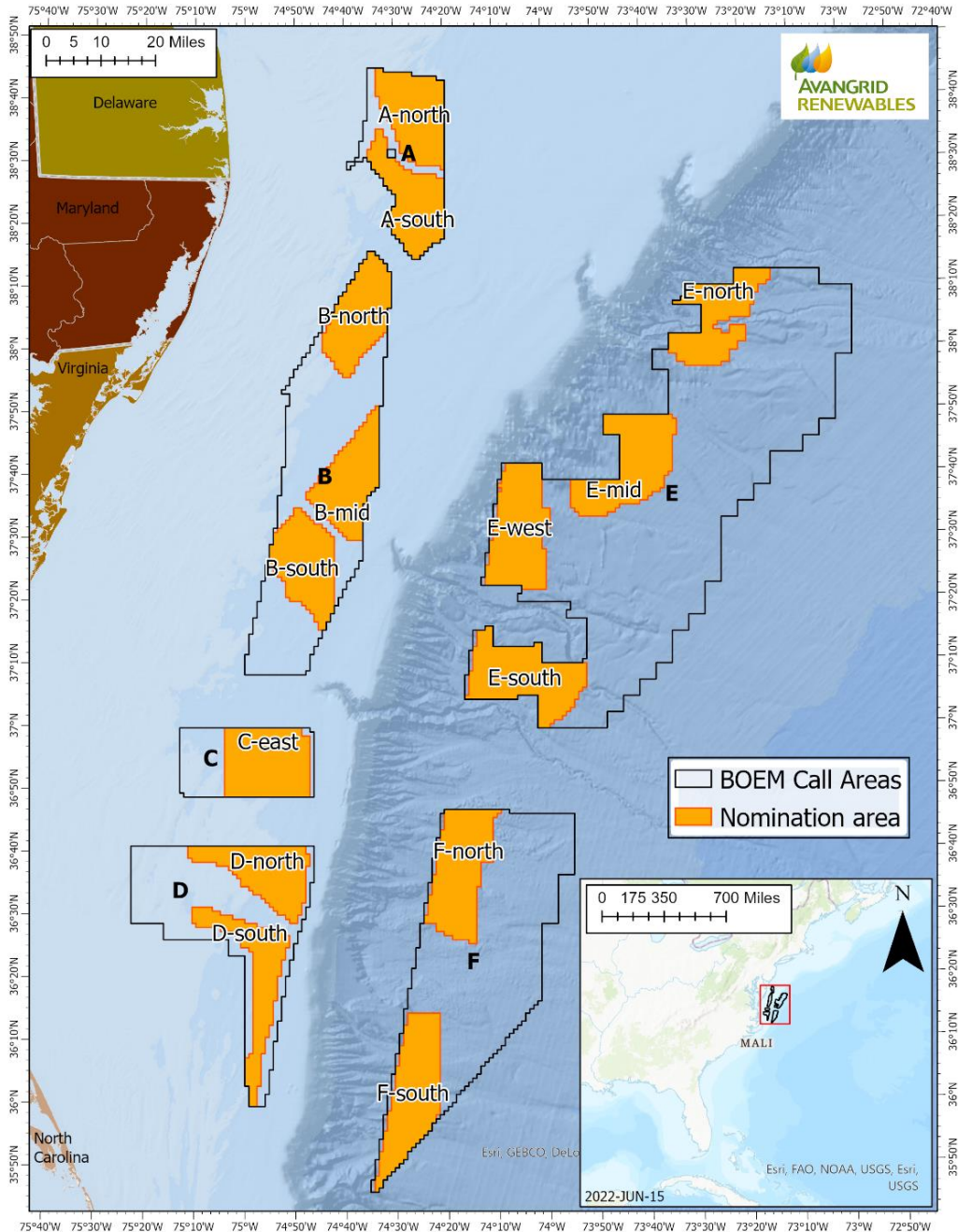


TABLE 1-1 NOMINATIONS SUMMARY

Nomination Area(s)	Acres	Capacity Potential [GW] ¹
A-North	109,648	2.7
A-South	106,800	2.7
B-North	110,004	2.7
B-Middle	108,224	2.7
B-South	111,428	2.8
C-East	125,668	3.2
D-North	106,800	2.8
D-South	105,020	2.1
E-North [FLOATING]	109,648	2.6
E-Middle [FLOATING]	135,992	3.1
E-West [FLOATING]	135,280	3.4
E-South [FLOATING]	136,704	3.5
F-North [FLOATING]	136,348	3.5
F-South [FLOATING]	138,484	3.4
Total	1,676,048	41.7

1. Estimate, Based on 15-MW WTG and Avangrid Renewables' preliminary assumptions

2. CLOSING REMARKS

As stated above, the *Required Nomination Information* for each of the nomination areas within the Central Atlantic Call Area is enclosed in this response to the Call for Information and Nominations. Additionally, Avangrid Renewables has enclosed its legal, technical, and financial qualifications to hold an offshore wind lease in federal waters offshore the Central Atlantic.

Avangrid Renewables appreciates the opportunity to submit its nominations and we look forward to the ongoing industry and stakeholder collaboration as BOEM continues to advance its robust wind energy area identification, environmental assessment process, and future leasing opportunities.

3. NOMINATION – CALL AREA A NORTH

Avangrid Renewables presents nomination area A North to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 3-1** below.

TABLE 3-1 NOMINATION – CALL AREA A NORTH

Area Nomination Name	Call Area	Approximate Area (acres)	Potential Capacity (GW)
A North	Call Area A	109,648	2.7

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below are described in **Figure 3-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 3-2** below. In addition, the nomination for the A North Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 3-1 NOMINATION – CALL AREA A NORTH MAP

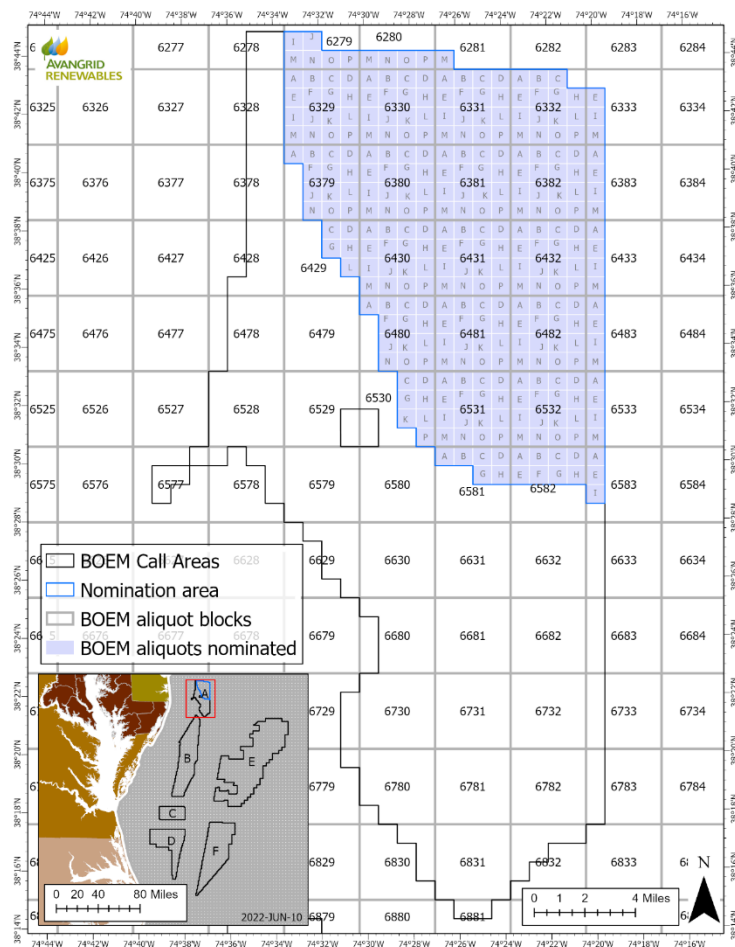


TABLE 3-2 NOMINATION - CALL AREA A NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Salisbury	NJ18-05	6279									X	X			X	X	X	X
Salisbury	NJ18-05	6280													X	X	X	X
Salisbury	NJ18-05	6281													X			
Salisbury	NJ18-05	6329	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6330	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6331	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6332	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6333					X				X				X			
Salisbury	NJ18-05	6379	X	X	X	X		X	X	X		X	X	X		X	X	X
Salisbury	NJ18-05	6380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6381	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6382	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6383	X				X				X				X			
Salisbury	NJ18-05	6429			X	X			X	X				X				
Salisbury	NJ18-05	6430	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6431	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6432	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6433	X				X				X				X			
Salisbury	NJ18-05	6480	X	X	X	X		X	X	X		X	X	X		X	X	X
Salisbury	NJ18-05	6481	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6482	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6483	X				X				X				X			
Salisbury	NJ18-05	6530			X	X			X	X			X	X				X
Salisbury	NJ18-05	6531	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6532	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6533	X				X				X				X			
Salisbury	NJ18-05	6581	X	X	X	X			X	X								
Salisbury	NJ18-05	6582	X	X	X	X	X	X	X	X								
Salisbury	NJ18-05	6583	X				X				X							

4. NOMINATION – CALL AREA A SOUTH

Avangrid Renewables presents nomination area A South to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 4-1**.

TABLE 4-1 NOMINATION – CALL AREA A SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
A South	Call Area A	106,800	2.7

1. Based on hypothetical 15 MW turbine described below

After technical, developmental, and commercial assessment, AVANGRID RENEWABLES has drawn the below area described in **Figure 4-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 4-2** below. In addition, the nomination for the A South Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 4-1 NOMINATION – A SOUTH AREA MAP

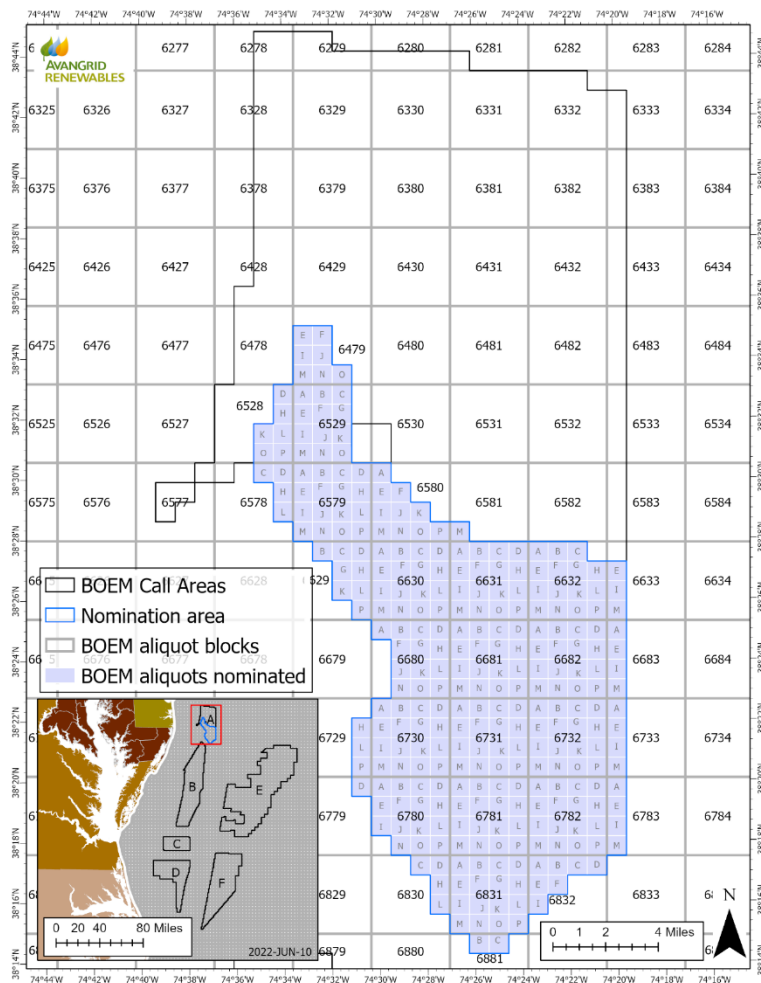


TABLE 4-2 NOMINATION – A SOUTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Salisbury	NJ18-05	6479					X	X			X	X			X	X	X	
Salisbury	NJ18-05	6528				X				X			X	X			X	X
Salisbury	NJ18-05	6529	X	X	X		X	X	X		X	X	X		X	X	X	
Salisbury	NJ18-05	6578			X	X				X				X				
Salisbury	NJ18-05	6579	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6580	X				X	X			X	X	X		X	X	X	X
Salisbury	NJ18-05	6581													X			
Salisbury	NJ18-05	6629		X	X	X			X	X			X	X				X
Salisbury	NJ18-05	6630	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6631	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6632	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6633					X				X				X			
Salisbury	NJ18-05	6680	X	X	X	X	X	X	X	X		X	X	X		X	X	X
Salisbury	NJ18-05	6681	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6682	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6683	X				X				X				X			
Salisbury	NJ18-05	6729								X				X				X
Salisbury	NJ18-05	6730	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6731	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6732	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6733	X				X				X				X			
Salisbury	NJ18-05	6779				X												
Salisbury	NJ18-05	6780	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Salisbury	NJ18-05	6781	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6782	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6783	X				X				X				X			

Protraction Name	Protraction Name	Block No.	A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P
Salisbury	NJ18-05	6830			X		X				X				X				
Salisbury	NJ18-05	6831	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6832	X	X	X		X	X	X			X							
Salisbury	NJ18-05	6881		X	X														

5. NOMINATION – CALL AREA B NORTH

Avangrid Renewables presents nomination area B North to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 5-1**.

TABLE 5-1 NOMINATION – CALL AREA B NORTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
B North	Call Area B	110,004	2.7

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 5-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 5-2** below. In addition, the nomination for the B North Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 5-1 NOMINATION – B NORTH AREA MAP

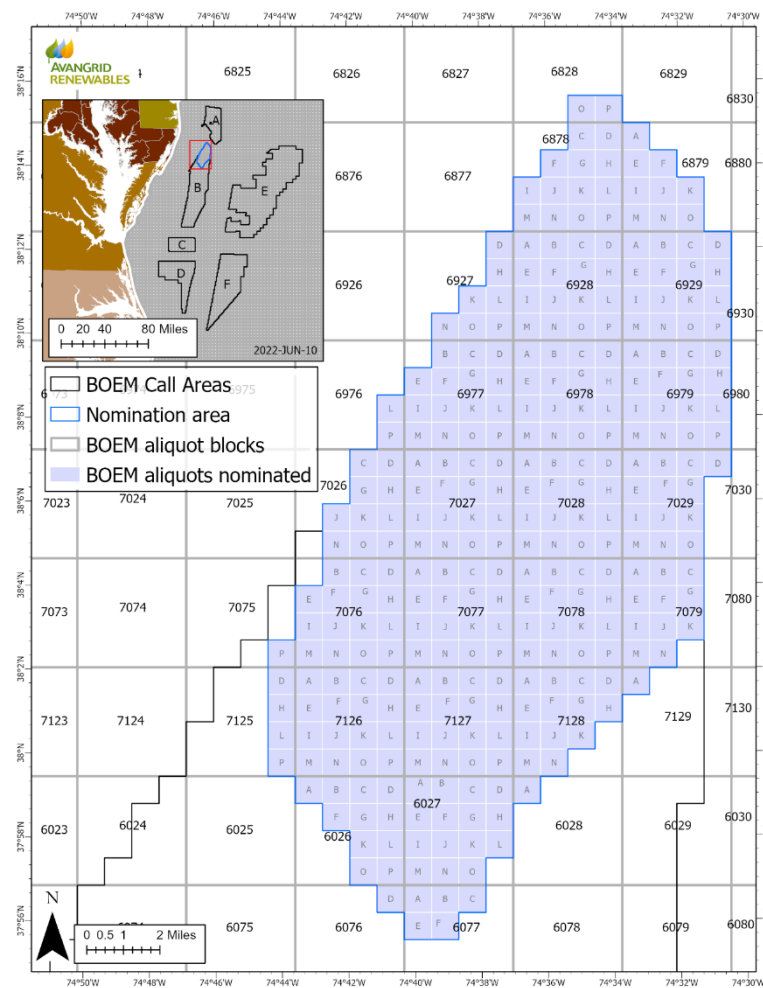


TABLE 5-2 NOMINATION - B NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6026	X	X	X	X		X	X	X			X	X			X	X
Chincoteague	NJ18-08	6027	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Chincoteague	NJ18-08	6028	X															
Chincoteague	NJ18-08	6076				X												
Chincoteague	NJ18-08	6077	X	X	X		X	X										
Salisbury	NJ18-05	6828															X	X
Salisbury	NJ18-05	6878			X	X		X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6879	X				X	X			X	X	X		X	X	X	
Salisbury	NJ18-05	6927				X				X			X	X		X	X	X
Salisbury	NJ18-05	6928	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6929	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6976												X				X
Salisbury	NJ18-05	6977		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6978	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	6979	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7026			X	X			X	X		X	X	X		X	X	X
Salisbury	NJ18-05	7027	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7028	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7029	X	X	X	X	X	X	X		X	X	X		X	X	X	
Salisbury	NJ18-05	7075																X
Salisbury	NJ18-05	7076		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7077	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7078	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7079	X	X	X		X	X	X		X	X	X		X	X		
Salisbury	NJ18-05	7125				X				X				X				X
Salisbury	NJ18-05	7126	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Salisbury	NJ18-05	7127	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Salisbury	NJ18-05	7128	X	X	X	X	X	X	X	X	X	X	X		X	X		
Salisbury	NJ18-05	7129	X															

6. NOMINATION – CALL AREA B MIDDLE

Avangrid Renewables presents nomination area B Middle to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 6-1**.

TABLE 6-1 NOMINATION – CALL AREA B MIDDLE

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
B Middle	Call Area B	108,224	2.7

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 6-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 6-2** below. In addition, the nomination for the B Middle Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 6-1 NOMINATION – B MIDDLE AREA MAP

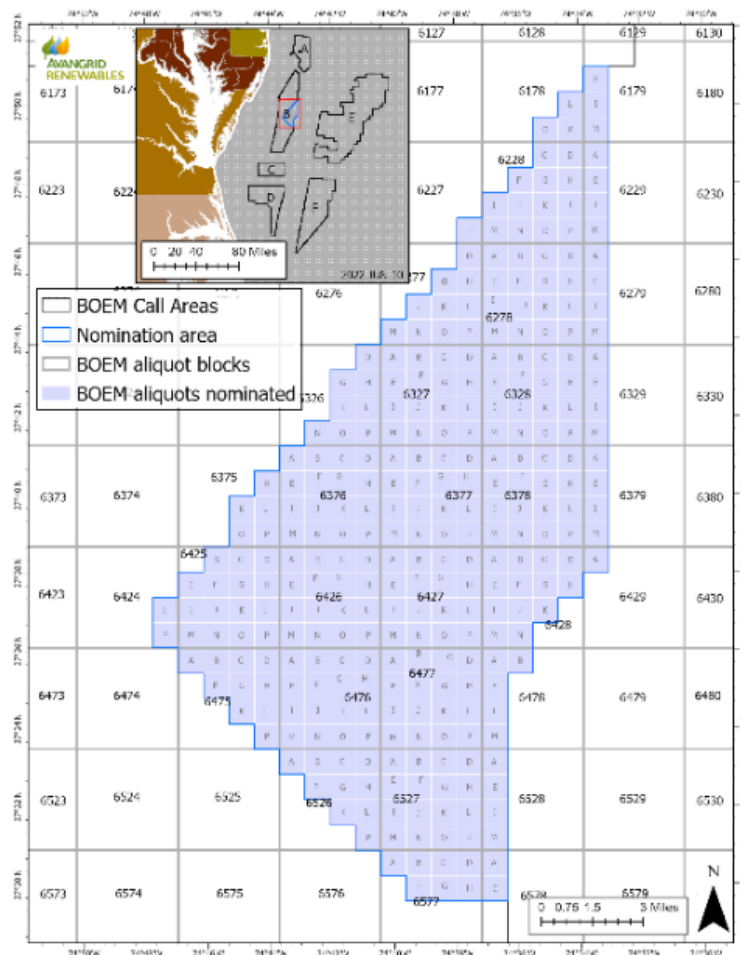


TABLE 6-2 NOMINATION - B MIDDLE PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6178												X			X	X
Chincoteague	NJ18-08	6179					X				X				X			
Chincoteague	NJ18-08	6227																X
Chincoteague	NJ18-08	6228			X	X		X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6229	X				X				X				X			
Chincoteague	NJ18-08	6277				X			X	X		X	X	X	X	X	X	X
Chincoteague	NJ18-08	6278	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6279	X				X				X				X			
Chincoteague	NJ18-08	6326				X			X	X			X	X		X	X	X
Chincoteague	NJ18-08	6327	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6328	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6329	X				X				X				X			
Chincoteague	NJ18-08	6375								X			X	X			X	X
Chincoteague	NJ18-08	6376	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6377	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6378	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6379	X				X				X				X			
Chincoteague	NJ18-08	6424												X				X
Chincoteague	NJ18-08	6425		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6426	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6427	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6428	X	X	X	X	X	X	X	X	X	X	X		X	X		
Chincoteague	NJ18-08	6429	X															
Chincoteague	NJ18-08	6475	X	X	X	X		X	X	X			X	X				X
Chincoteague	NJ18-08	6476	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6477	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6478	X	X			X				X				X			
Chincoteague	NJ18-08	6526	X	X	X	X	X	X	X	X	X	X	X		X	X		
Chincoteague	NJ18-08	6527	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6528	X				X				X				X			
Chincoteague	NJ18-08	6577	X	X	X	X		X	X	X								
Chincoteague	NJ18-08	6578	X				X											

7. NOMINATION – CALL AREA B SOUTH

Avangrid Renewables presents nomination area B South to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 7-1**.

TABLE 7-1 NOMINATION – CALL AREA B SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
B South	Call Area B	111,428	2.8

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 7-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 7-2** below. In addition, the nomination for the B South Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 7-1 NOMINATION – B MIDDLE AREA MAP

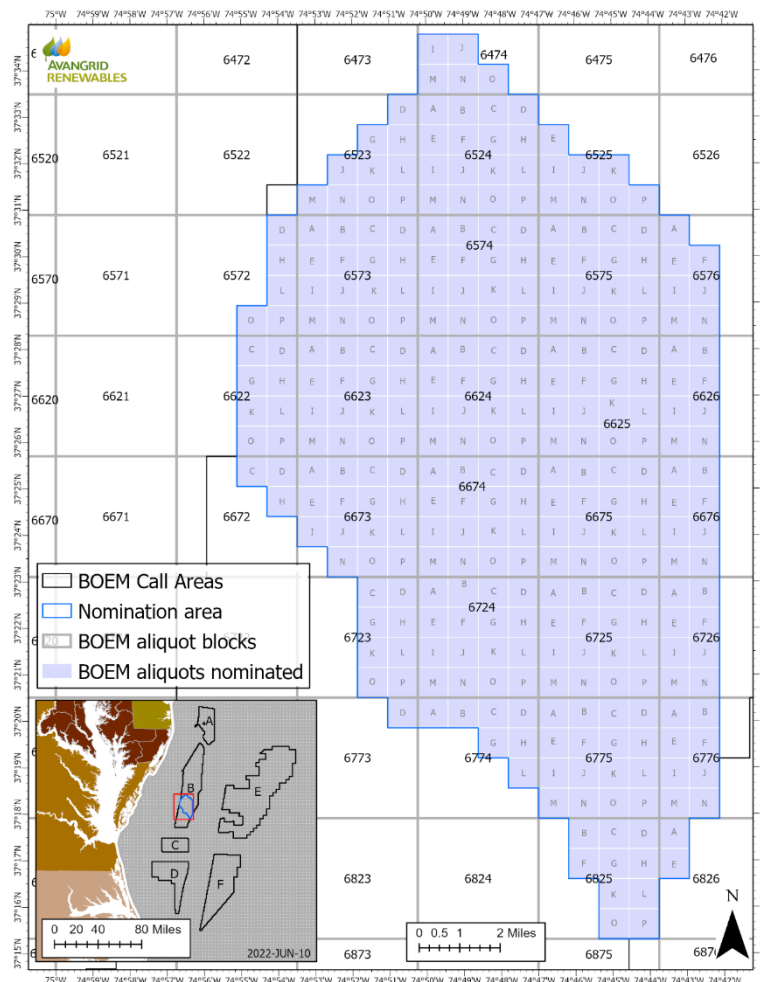


TABLE 6-2 NOMINATION – AREA B SOUTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6474									X	X			X	X	X	
Chincoteague	NJ18-08	6523				X			X	X		X	X	X	X	X	X	X
Chincoteague	NJ18-08	6524	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6525					X				X	X	X		X	X	X	X
Chincoteague	NJ18-08	6572				X				X				X			X	X
Chincoteague	NJ18-08	6573	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6574	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6575	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6576	X				X	X			X	X			X	X		
Chincoteague	NJ18-08	6622			X	X			X	X			X	X			X	X
Chincoteague	NJ18-08	6623	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6624	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6625	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6626	X	X			X	X			X	X			X	X		
Chincoteague	NJ18-08	6672			X	X				X								
Chincoteague	NJ18-08	6673	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Chincoteague	NJ18-08	6674	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6675	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6676	X	X			X	X			X	X			X	X		
Chincoteague	NJ18-08	6723			X	X			X	X			X	X			X	X
Chincoteague	NJ18-08	6724	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6725	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6726	X	X			X	X			X	X			X	X		
Chincoteague	NJ18-08	6773				X												
Chincoteague	NJ18-08	6774	X	X	X	X			X	X				X				
Chincoteague	NJ18-08	6775	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6776	X	X			X	X			X	X			X	X		

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6825		X	X	X		X	X	X			X	X			X	X
Chincoteague	NJ18-08	6826	X				X											

8. NOMINATION – CALL AREA C EAST

Avangrid Renewables presents nomination area C East to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 8-1** below.

TABLE 7-1 NOMINATION – CALL AREA C SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
C East	Call Area C	125,668	3.2

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 8-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 8-2** below. In addition, the nomination for the C East Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 7-1 NOMINATION – CALL AREA C EAST MAP

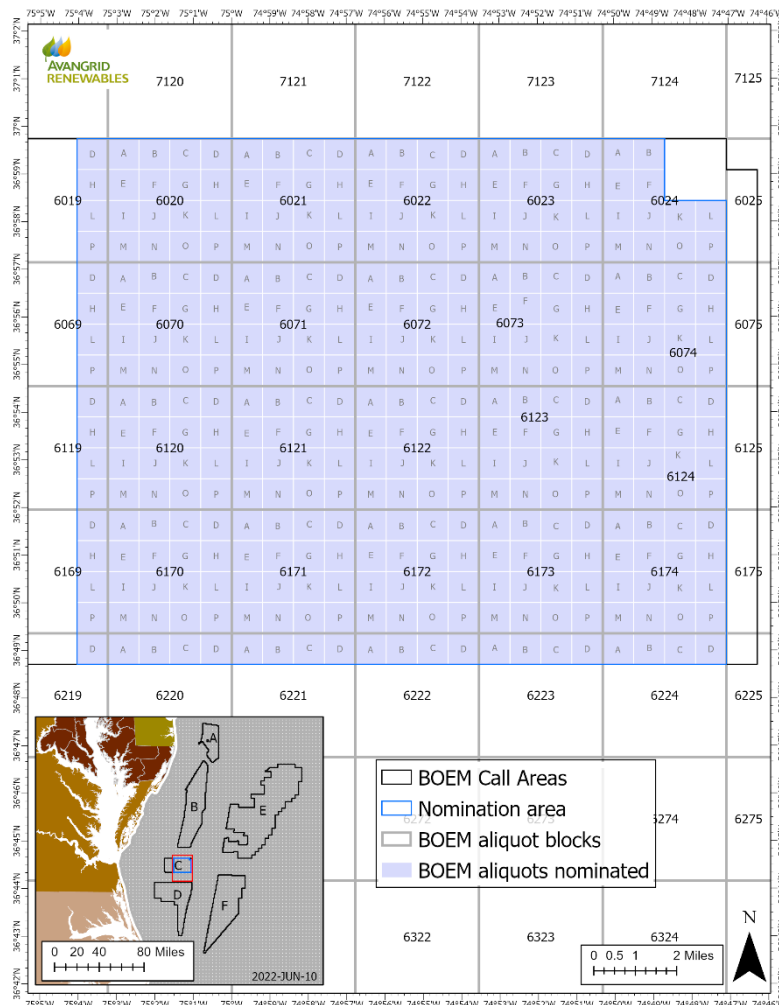


TABLE 7-2 NOMINATION - C EAST PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6019				X				X				X				X
Currituck Sound	NJ18-11	6020	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6021	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6022	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6023	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6024	X	X			X	X			X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6069				X				X				X				X
Currituck Sound	NJ18-11	6070	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6071	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6072	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6073	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6074	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6119				X				X				X				X
Currituck Sound	NJ18-11	6120	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6121	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6122	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6123	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6124	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6169				X				X				X				X
Currituck Sound	NJ18-11	6170	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6171	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6172	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6173	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6174	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6219				X												
Currituck Sound	NJ18-11	6220	X	X	X	X												
Currituck Sound	NJ18-11	6221	X	X	X	X												

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6222	X	X	X	X												
Currituck Sound	NJ18-11	6223	X	X	X	X												
Currituck Sound	NJ18-11	6224	X	X	X	X												

9. NOMINATION – CALL AREA D NORTH

Avangrid Renewables presents nomination area D North to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 9-1**.

TABLE 8-1 NOMINATION – CALL AREA D NORTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
D North	Call Area D	106,800	2.9

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 9-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 9-2** below. In addition, the nomination for the D North Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 9-1 NOMINATION – CALL AREA D NORTH MAP

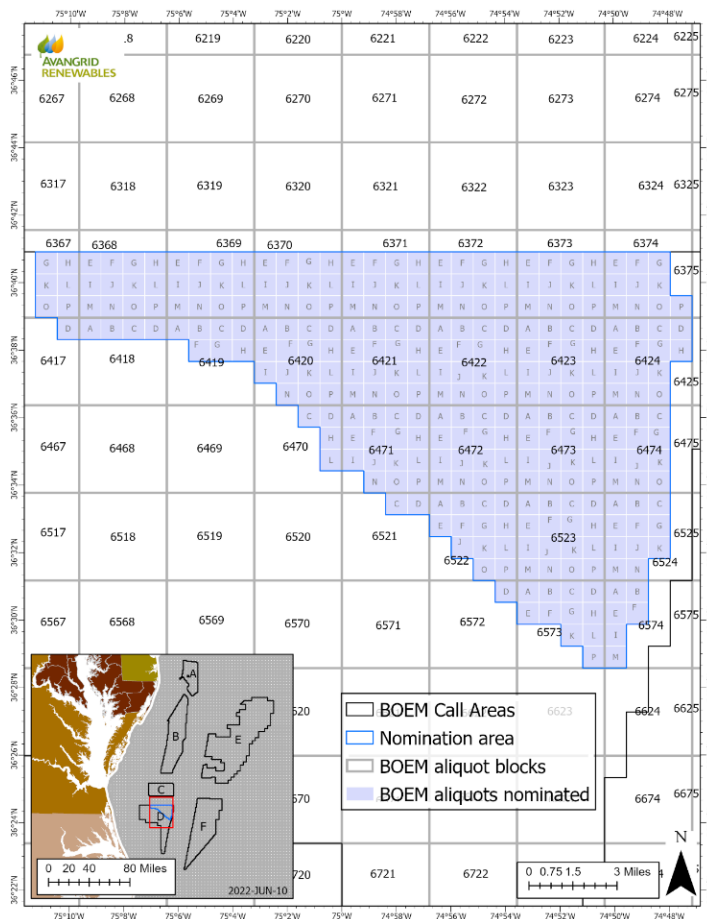


TABLE 9-2 NOMINATION - D NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6367							X	X			X	X			X	X
Currituck Sound	NJ18-11	6368					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6369					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6370					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6371					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6372					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6373					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6374					X	X	X		X	X	X		X	X	X	X
Currituck Sound	NJ18-11	6417				X												
Currituck Sound	NJ18-11	6418	X	X	X	X												
Currituck Sound	NJ18-11	6419	X	X	X	X		X	X	X								
Currituck Sound	NJ18-11	6420	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Currituck Sound	NJ18-11	6421	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6422	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6423	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6424	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Currituck Sound	NJ18-11	6470			X	X				X				X				
Currituck Sound	NJ18-11	6471	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Currituck Sound	NJ18-11	6472	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6473	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6474	X	X	X		X	X	X		X	X	X		X	X	X	
Currituck Sound	NJ18-11	6521			X	X												
Currituck Sound	NJ18-11	6522	X	X	X	X	X	X	X	X		X	X	X			X	X
Currituck Sound	NJ18-11	6523	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6524	X	X	X		X	X	X		X	X	X		X	X		
Currituck Sound	NJ18-11	6572				X												
Currituck Sound	NJ18-11	6573	X	X	X	X	X	X	X	X			X	X				X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6574	X	X			X	X			X				X			
Currituck Sound	NJ18-11	6223	X	X	X	X												
Currituck Sound	NJ18-11	6224	X	X	X	X												

10. NOMINATION - CALL AREA D SOUTH

Avangrid Renewables presents nomination area D South to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 10-1** below.

TABLE 10-1 NOMINATION - CALL AREA D SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
D South	Call Area D	105,020	2.1

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 10-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 10-2** below. In addition, the nomination for the D South Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 9-1 NOMINATION - CALL AREA D SOUTH MAP

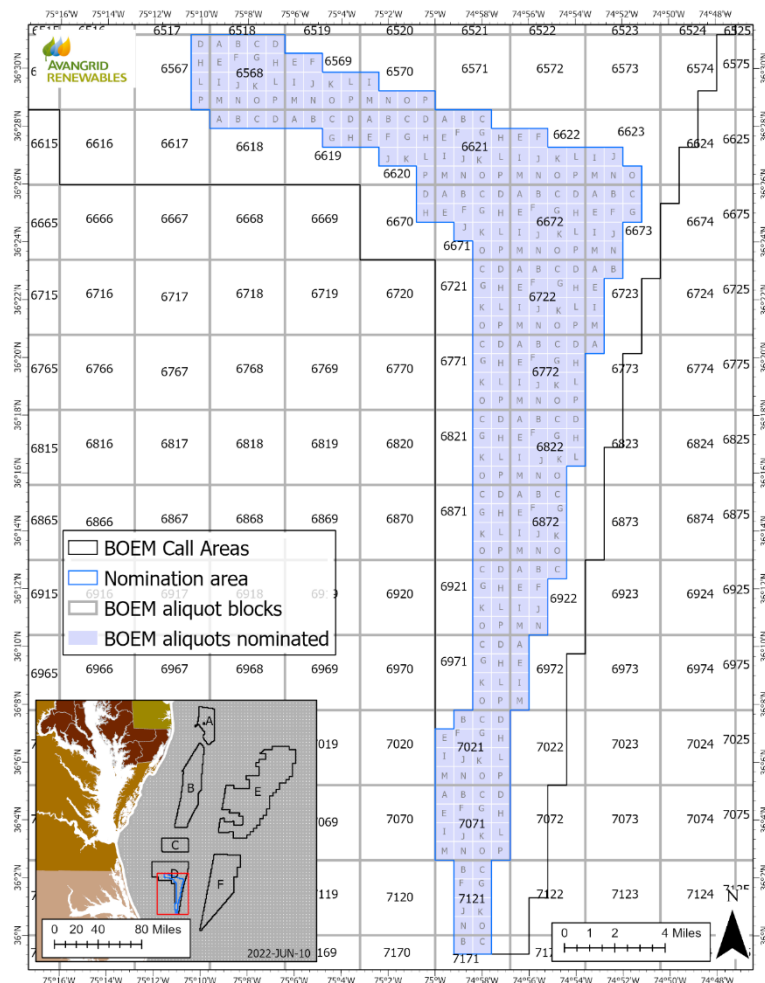


TABLE 9-2 NOMINATION - D NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6367							X	X			X	X			X	X
Currituck Sound	NJ18-11	6368					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6369					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6370					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6371					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6372					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6373					X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6374					X	X	X		X	X	X		X	X	X	X
Currituck Sound	NJ18-11	6417				X												
Currituck Sound	NJ18-11	6418	X	X	X	X												
Currituck Sound	NJ18-11	6419	X	X	X	X		X	X	X								
Currituck Sound	NJ18-11	6420	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Currituck Sound	NJ18-11	6421	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6422	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6423	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6424	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Currituck Sound	NJ18-11	6470			X	X				X				X				
Currituck Sound	NJ18-11	6471	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Currituck Sound	NJ18-11	6472	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6473	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6474	X	X	X		X	X	X		X	X	X		X	X	X	
Currituck Sound	NJ18-11	6521			X	X												
Currituck Sound	NJ18-11	6522	X	X	X	X	X	X	X	X		X	X	X			X	X
Currituck Sound	NJ18-11	6523	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6524	X	X	X		X	X	X		X	X	X		X	X		
Currituck Sound	NJ18-11	6572				X												
Currituck Sound	NJ18-11	6573	X	X	X	X	X	X	X	X			X	X				X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6574	X	X			X	X			X				X			
Currituck Sound	NJ18-11	6223	X	X	X	X												
Currituck Sound	NJ18-11	6224	X	X	X	X												

11. NOMINATION - CALL AREA E NORTH

Avangrid Renewables presents nomination area E North to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 10-1** below.

TABLE 10-1 NOMINATION - CALL AREA E North

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW)
E North	Call Area E	109,648	2.6

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 10-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 10-2** below. In addition, the nomination for the E North Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 10-1 NOMINATION - CALL AREA E NORTH MAP

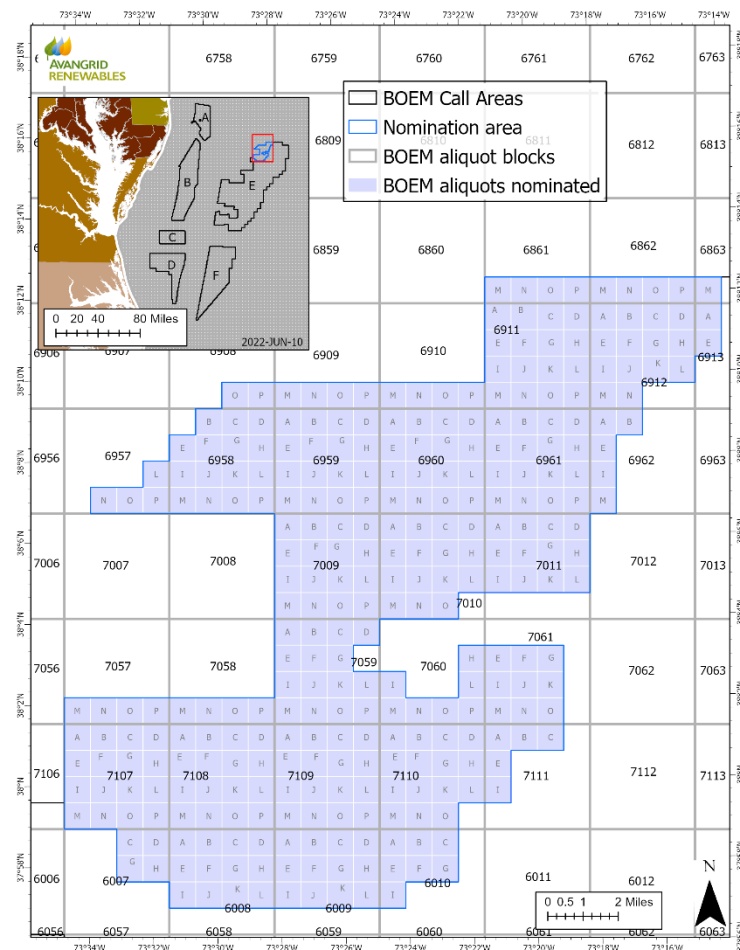


TABLE 10-2 NOMINATION - E NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Baltimore Rise	NJ18-09	6007			X	X			X	X								
Baltimore Rise	NJ18-09	6008	X	X	X	X	X	X	X	X	X	X	X	X				
Baltimore Rise	NJ18-09	6009	X	X	X	X	X	X	X	X	X	X	X	X				
Baltimore Rise	NJ18-09	6010	X	X	X		X	X	X		X							
Wilmington Canyon	NJ18-06	6861													X	X	X	X
Wilmington Canyon	NJ18-06	6862													X	X	X	X
Wilmington Canyon	NJ18-06	6863													X			
Wilmington Canyon	NJ18-06	6908															X	X
Wilmington Canyon	NJ18-06	6909													X	X	X	X
Wilmington Canyon	NJ18-06	6910													X	X	X	X
Wilmington Canyon	NJ18-06	6911	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	6912	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Wilmington Canyon	NJ18-06	6913	X				X											
Wilmington Canyon	NJ18-06	6957												X		X	X	X
Wilmington Canyon	NJ18-06	6958		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	6959	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	6960	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	6961	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	6962	X	X			X				X				X			
Wilmington Canyon	NJ18-06	7009	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	7010	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Wilmington Canyon	NJ18-06	7011	X	X	X	X	X	X	X	X	X	X	X	X				
Wilmington Canyon	NJ18-06	7057													X	X	X	X
Wilmington Canyon	NJ18-06	7058													X	X	X	X
Wilmington Canyon	NJ18-06	7059	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	7060								X	X			X	X	X	X	X
Wilmington Canyon	NJ18-06	7061					X	X	X		X	X	X		X	X	X	

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Wilmington Canyon	NJ18-06	7107	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	7108	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	7109	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilmington Canyon	NJ18-06	7110	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Wilmington Canyon	NJ18-06	7111	X	X	X		X				X							

12. NOMINATION- CALL AREA E MIDDLE

Avangrid Renewables presents nomination area E Middle to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 12-1**.

TABLE 11-1 NOMINATION - CALL AREA E MIDDLE

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW) ¹
E Middle	Call Area E	135,992	3.1

1. Based on hypothetical 15 MW turbine described below

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 12-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 12-2** below. In addition, the nomination for the E Middle Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 12-1 NOMINATION - CALL AREA E MIDDLE MAP

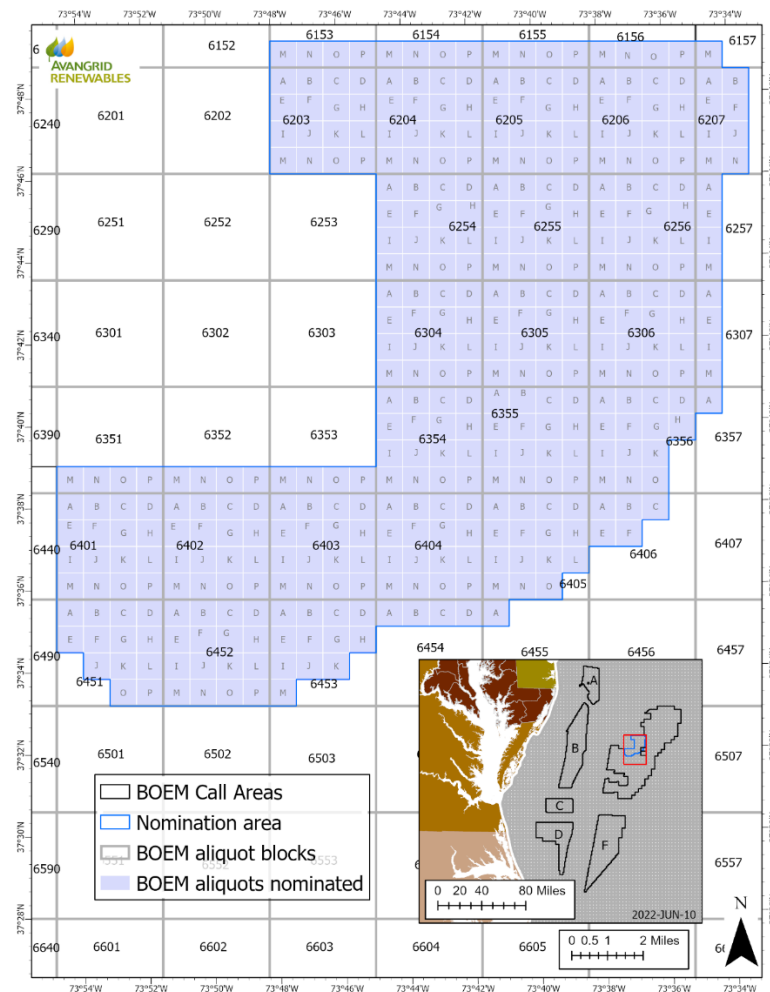


TABLE 12-2 NOMINATION - E MIDDLE PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Baltimore Rise	NJ18-09	6153													X	X	X	X
Baltimore Rise	NJ18-09	6154													X	X	X	X
Baltimore Rise	NJ18-09	6155													X	X	X	X
Baltimore Rise	NJ18-09	6156													X	X	X	X
Baltimore Rise	NJ18-09	6157													X			
Baltimore Rise	NJ18-09	6203	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6204	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6205	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6206	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6207	X	X			X	X			X	X			X	X		
Baltimore Rise	NJ18-09	6254	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6255	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6256	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6257	X				X				X				X			
Baltimore Rise	NJ18-09	6304	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6305	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6306	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6307	X				X				X				X			
Baltimore Rise	NJ18-09	6351													X	X	X	X
Baltimore Rise	NJ18-09	6352													X	X	X	X
Baltimore Rise	NJ18-09	6353													X	X	X	X
Baltimore Rise	NJ18-09	6354	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6355	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6356	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Baltimore Rise	NJ18-09	6357	X															
Baltimore Rise	NJ18-09	6401	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6402	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Baltimore Rise	NJ18-09	6403	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6404	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6405	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Baltimore Rise	NJ18-09	6406	X	X	X		X	X										
Baltimore Rise	NJ18-09	6451	X	X	X	X	X	X	X	X		X	X	X			X	X
Baltimore Rise	NJ18-09	6452	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-09	6453	X	X	X	X	X	X	X	X	X	X	X		X			
Baltimore Rise	NJ18-09	6454	X	X	X	X												
Baltimore Rise	NJ18-09	6455	X															

13. NOMINATION – CALL AREA E WEST

Avangrid Renewables presents nomination area E West to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 13-1**.

TABLE 13-1 NOMINATION – CALL AREA E WEST

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW) ¹
E West	Call Area E	135,280	3.4

1. Based on hypothetical 15 MW turbine described below

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 13-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 13-2** below. In addition, the nomination for the E West Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 13-1 NOMINATION – CALL AREA E WEST MAP

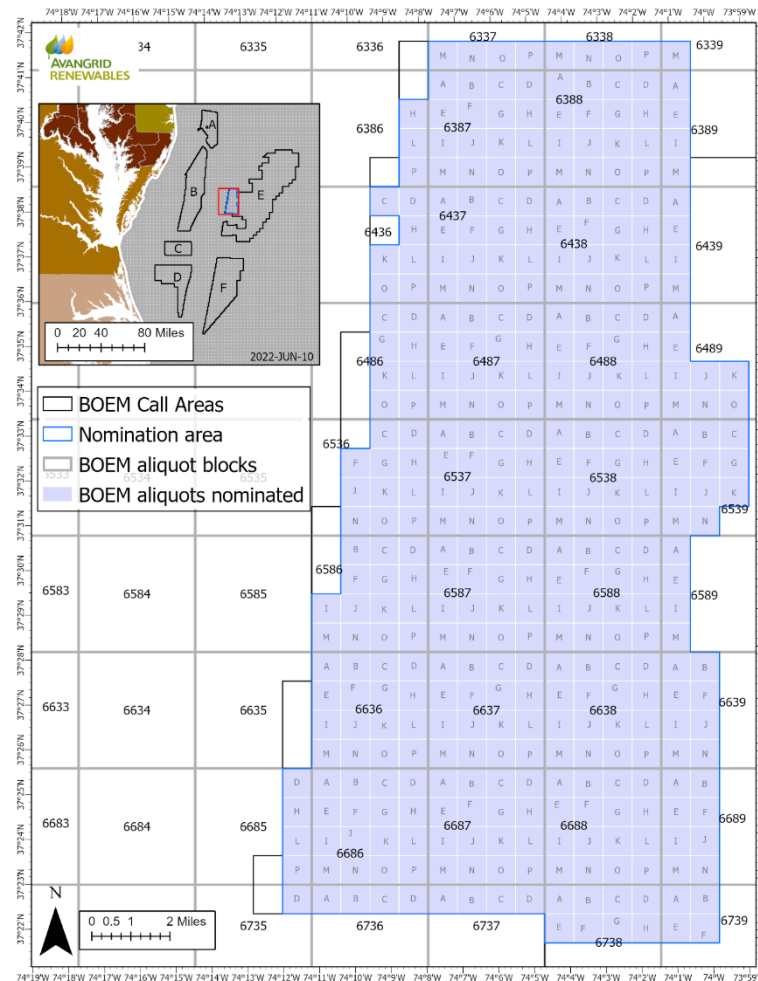


TABLE 13-2 NOMINATION - E WEST PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6337													X	X	X	X
Chincoteague	NJ18-08	6338													X	X	X	X
Chincoteague	NJ18-08	6339													X			
Chincoteague	NJ18-08	6386								X				X				X
Chincoteague	NJ18-08	6387	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6388	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6389	X				X				X				X			
Chincoteague	NJ18-08	6436			X	X				X			X	X			X	X
Chincoteague	NJ18-08	6437	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6438	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6439	X				X				X				X			
Chincoteague	NJ18-08	6486			X	X			X	X			X	X			X	X
Chincoteague	NJ18-08	6487	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6488	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6489	X				X				X	X	X		X	X	X	
Chincoteague	NJ18-08	6536			X	X		X	X	X		X	X	X		X	X	X
Chincoteague	NJ18-08	6537	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6538	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6539	X	X	X		X	X	X		X	X	X		X	X		
Chincoteague	NJ18-08	6586		X	X	X		X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6587	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6588	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6589	X				X				X				X			
Chincoteague	NJ18-08	6636	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6637	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6638	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	6639	X	X			X	X			X	X			X	X		
Chincoteague	NJ18-08	6685				X				X				X				X
Chincoteague	NJ18-08	6686	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6687	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6688	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6689	X	X			X	X			X	X			X	X		
Chincoteague	NJ18-08	6735				X												
Chincoteague	NJ18-08	6736	X	X	X	X												
Chincoteague	NJ18-08	6737	X	X	X	X												
Chincoteague	NJ18-08	6738	X	X	X	X	X	X	X	X								
Chincoteague	NJ18-08	6739	X	X			X	X										

14. NOMINATION- CALL AREA E SOUTH

Avangrid Renewables presents nomination area E South to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 14-1**.

TABLE 14-1 NOMINATION - CALL AREA E SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW) ¹
E South	Call Area E	135,280	3.5

1. Based on hypothetical 15 MW turbine described below

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 14-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 14-2** below. In addition, the nomination for the E South Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 13-1 NOMINATION - CALL AREA E SOUTH MAP

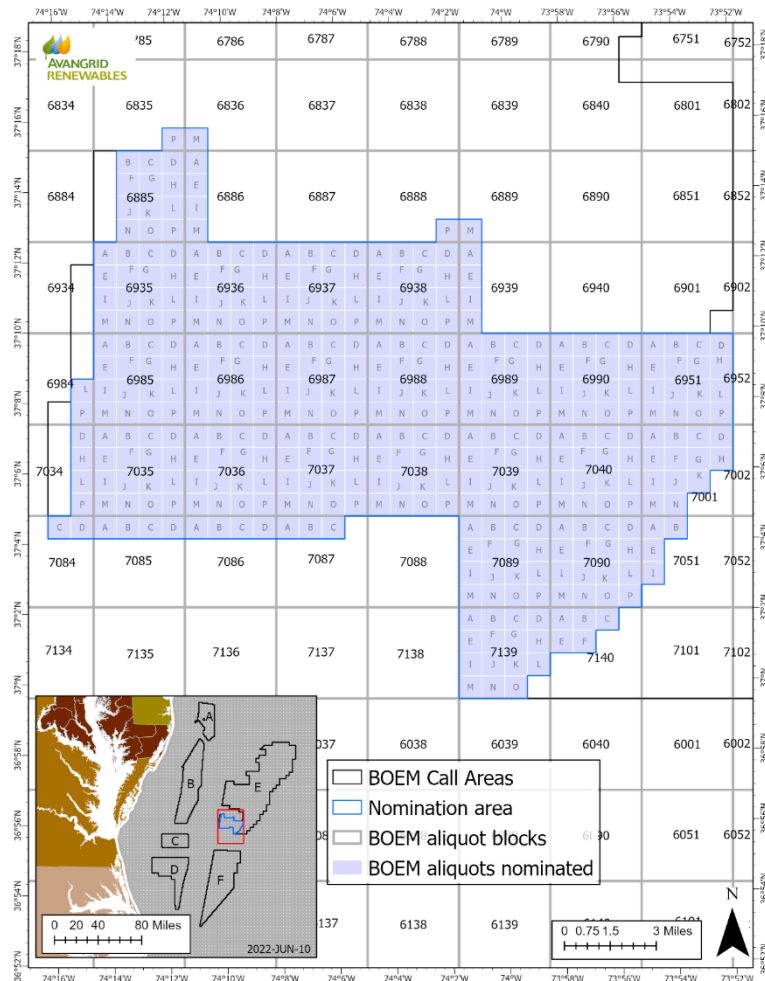


TABLE 13-2 NOMINATION - E SOUTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Baltimore Rise	NJ18-08	6951	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Baltimore Rise	NJ18-08	7001	X	X	X	X	X	X	X	X	X	X	X		X	X		
Baltimore Rise	NJ18-08	7051	X	X			X				X							
Chincoteague	NJ18-08	6835																X
Chincoteague	NJ18-08	6836													X			
Chincoteague	NJ18-08	6885		X	X	X		X	X	X		X	X	X		X	X	X
Chincoteague	NJ18-08	6886	X				X				X				X			
Chincoteague	NJ18-08	6888																X
Chincoteague	NJ18-08	6889													X			
Chincoteague	NJ18-08	6935	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6936	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6937	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6938	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6939	X				X				X				X			
Chincoteague	NJ18-08	6984												X				X
Chincoteague	NJ18-08	6985	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6986	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6987	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6988	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6989	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	6990	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7034				X				X				X				X
Chincoteague	NJ18-08	7035	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7036	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7037	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7038	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7039	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Chincoteague	NJ18-08	7040	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7084			X	X												
Chincoteague	NJ18-08	7085	X	X	X	X												
Chincoteague	NJ18-08	7086	X	X	X	X												
Chincoteague	NJ18-08	7087	X	X	X													
Chincoteague	NJ18-08	7089	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7090	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chincoteague	NJ18-08	7139	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Chincoteague	NJ18-08	7140	X	X	X		X	X										

15. NOMINATION – CALL AREA F NORTH

Avangrid Renewables presents nomination area F North to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 15-1**.

TABLE 14-1 NOMINATION – CALL AREA F NORTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW) ¹
F North	Call Area F	136,348	3.4

1. Based on hypothetical 15 MW turbine described below
 After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 15-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 15-2** below. In addition, the nomination for the F North Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 15-1 NOMINATION – CALL AREA F NORTH MAP

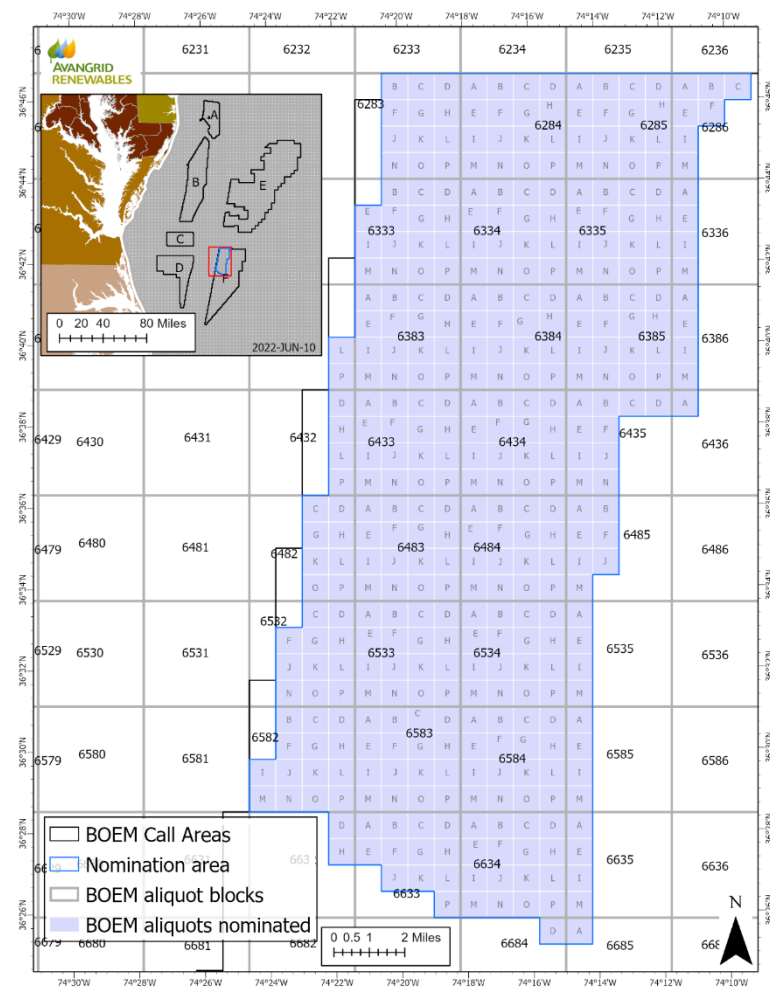


TABLE 15-2 NOMINATION - F NORTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6283		X	X	X		X	X	X		X	X	X		X	X	X
Currituck Sound	NJ18-11	6284	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6285	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6286	X	X	X		X	X			X				X			
Currituck Sound	NJ18-11	6333		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6334	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6335	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6336	X				X				X				X			
Currituck Sound	NJ18-11	6382												X				X
Currituck Sound	NJ18-11	6383	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6384	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6385	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6386	X				X				X				X			
Currituck Sound	NJ18-11	6432				X				X				X				X
Currituck Sound	NJ18-11	6433	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6434	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6435	X	X	X	X	X	X			X	X			X	X		
Currituck Sound	NJ18-11	6436	X															
Currituck Sound	NJ18-11	6482			X	X			X	X			X	X			X	X
Currituck Sound	NJ18-11	6483	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6484	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6485	X	X			X	X			X	X			X			
Currituck Sound	NJ18-11	6532			X	X		X	X	X		X	X	X		X	X	X
Currituck Sound	NJ18-11	6533	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6534	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6535	X				X				X				X			
Currituck Sound	NJ18-11	6582		X	X	X		X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6583	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6584	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6585	X				X				X				X			
Currituck Sound	NJ18-11	6632				X				X								
Currituck Sound	NJ18-11	6633	X	X	X	X	X	X	X	X		X	X	X				X
Currituck Sound	NJ18-11	6634	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6635	X				X				X				X			
Currituck Sound	NJ18-11	6684				X												
Currituck Sound	NJ18-11	6685	X															

16. NOMINATION- CALL AREA F SOUTH

Avangrid Renewables presents nomination area F South to advance in evaluation for future commercial leasing opportunities in federal waters in the Central Atlantic as seen in **Table 16-1**.

TABLE 16-1 NOMINATION - CALL AREA F SOUTH

Area Nomination	Call Area	Approximate Area (acres)	Potential Capacity (GW) ¹
F South	Call Area F	138,484	3.4

1. Based on hypothetical 15 MW turbine described below

After technical, developmental, and commercial assessment, Avangrid Renewables has drawn the below area described in **Figure 16-1** which would fit the lease area size and site characterization for a future commercial scale offshore wind project. The area of interest protraction analysis is presented in **Table 16-2** below. In addition, the nomination for the F South Area as a spatial file compatible with ArcGIS 10.8.1 is included with this submission.

FIGURE 16-1 NOMINATION - CALL AREA F SOUTH MAP

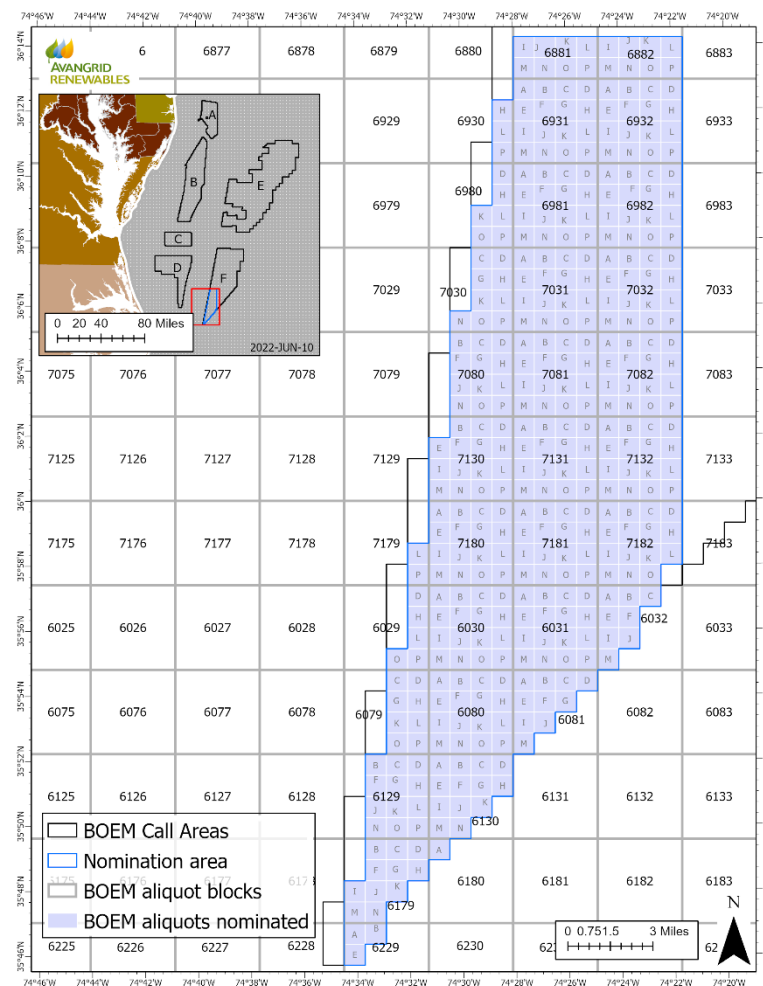


FIGURE 16-1 NOMINATION - CALL AREA F SOUTH PROTRACTION

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Currituck Sound	NJ18-11	6881									X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6882									X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6930								X				X				X
Currituck Sound	NJ18-11	6931	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6932	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6980				X				X			X	X			X	X
Currituck Sound	NJ18-11	6981	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	6982	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7030			X	X			X	X			X	X		X	X	X
Currituck Sound	NJ18-11	7031	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7032	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7080		X	X	X		X	X	X		X	X	X		X	X	X
Currituck Sound	NJ18-11	7081	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7082	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7130		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7131	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7132	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7179												X				X
Currituck Sound	NJ18-11	7180	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7181	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Currituck Sound	NJ18-11	7182	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Manteo	NI18-02	6029				X				X				X			X	X
Manteo	NI18-02	6030	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Manteo	NI18-02	6031	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Manteo	NI18-02	6032	X	X	X		X	X			X	X			X			
Manteo	NI18-02	6079			X	X			X	X			X	X			X	X
Manteo	NI18-02	6080	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Protraction Name	Protraction Name	Block No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Manteo	NI18-02	6081	X	X	X	X	X	X	X		X	X			X			
Manteo	NI18-02	6129		X	X	X		X	X	X		X	X	X		X	X	X
Manteo	NI18-02	6130	X	X	X	X	X	X	X	X	X	X	X		X	X		
Manteo	NI18-02	6179		X	X	X		X	X	X	X	X	X		X	X		
Manteo	NI18-02	6180	X															
Manteo	NI18-02	6229	X	X			X											