SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Environmental Data

Date Taken: 08/25/2022 Time: 7:05 AM Temperature: 67°F Humidity: 84% Visibility*: 10+ miles Wind Direction: West-northwest Wind Speed: 3 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 16.23 feet AMSL

Key Observation Point Information

County: Ocean Town: Seaside Park Borough State: New Jersey Location: Seaside Park Beach Latitude, Longitude: 39.93530°N, 74.07163°W Direction of View (Center): East-northeast (58.6°) Field of View: 124° x 55°

Visual Resources Character Area: Commercial Beachfront, Seascape (SCA) Üser Group: Residents/Tourists, Fishermen Visually Sensitive Resource: Seaside Park Beach and Boardwalk, U.S. Life Saving Station No. 13





Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations



Project

Notes: Offshore Substation location and dimensions are based on r

- considered in this photosimulation are subject to potential modification. *Historical meteorological data predicts visibility within a limit of 10 statute miles. However, visibility may extend beyond this distance. The phy

Reasonably Foreseeable Projects Represented in Photosimulation

Year of evelopment	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP**	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
2025-2027	1,047	118	205	39.0	48.0
2023-2025	906	0	111	Not Visible	Not Visible
2024-2025	951	52	72	39.8	46.1
2023-2027	951	6	104	44.6	46.0
2024-2030	853	0	33	Not Visible	Not Visible
2023-2030	853	0	80	Not Visible	Not Visible
2024	938	0	101	Not Visible	Not Visible
2025-2030	1,047	157	164	19.3	42.2
2026-2030	906	0	111	Not Visible	Not Visible
by 2030	853	0	104	Not Visible	Not Visible
by 2030	853	0	82	Not Visible	Not Visible
by 2030	853	7	101	42.4	43.9
by 2030	853	13	148	41.8	43.8
by 2030	853	17	95	39.5	43.9
by 2030	853	0	99	Not Visible	Not Visible

ary publicly available project data. Projects for which this data is not

refraction index). • WTG positions in the photosimulations are based on a refraction value of 7/6 or an approximate 0.14 coefficient derived from observations of the constructed Block Islande Indexing Vertications of the constructed Block Islande Indexing Vertications of the approximate 0.14 coefficient derived from observations of the constructed Block Islande Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis results which use a refraction coefficient of 0.13. • **The number of WTGs visible from the KOP was determined by human verified computer generated counts performed in the 3D camera views considering screening resulting from vegetation, structures, curvature of the eartir feraction. This count may vary from the actual number of WTGs visible in the respective views due to masking completed during post processing which may include people, waves, backs, or other minor obstructions that apper the photograph. Additionally, the WTG counts assumed the WTG blades are in the upright position whereas the photosimulations assume a random rotation pattern. Considering the largest WTG in the cumulative array, this concounts or up to 236 ft (72 m) in lost maximum height depending on the rotation position. • The cone of view indicated on the Key Observation Point Context map indicates the horizontal extent of view only and does not indicate the extent of WTG visibility.





SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Existing Conditions (Panorama 1)

Key Observation Point Context

Simulation Size: 60° in width by 29.3° in height. Images the work of the init should be viewed from a distance of 18 inches in order to obtain the proper perspective.

Notes: • Photosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.







SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 1): Scenario 1: 2023-2025 Project Construction (Ocean Wind, Empire Wind, Empire Wind II)

Simulation Size: 66° in width by 29.3° in height. Images that doubt the viewed from a distance of 18 inches on the prevent in order to obtain the proper perspective. percentra

- Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
 Offstore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation positions. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location and dimensions of the constructed Block Blad WIMG farm. This refraction coefficient daval for moder values of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations (Corregulations).
 "When there of WTGs visible from the KOP was determined by human verified computer generated counts performed in the 3D camera views considering screening screening resulting from vegation, structures, curvature of WTGs visible from the KOP was determined by human verified computer generated for the earth and refraction. This rate appear in the photosimulations assume a random rotation pattern. Considerent that appear in the photosimulations assume a random rotation pattern. Considerent the leveration Point Context map indicates the horizontal extent of view indicated to the Key Desviration Point Context map indicates the horizontal extent of various vision of the curvation of Vision to sculations the size dava and point of the commune the VIG visibility.
 The conde of view indicates the extent of VIG visibility.
 The conde of view indicates the extent of VIG visibility.
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Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	lotal Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0









SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 1): Scenario 2: Atlantic Shores Construction (2025-2027) added to Scenario 1 (Ocean Wind, Empire Wind, Empire Wind II, Atlantic Shores South)



- Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
 Offstore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation positions. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location and dimensions of the constructed Block Blad WIMG farm. This refraction coefficient daval for moder values of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations of the constructed Block Blad WIMG farm. This refraction coefficient daval for moderswations (Corregulations).
 "When there of WTGs visible from the KOP was determined by human verified computer generated counts performed in the 3D camera views considering screening screening resulting from vegation, structures, curvature of WTGs visible from the KOP was determined by human verified computer generated for the earth and refraction. This rate appear in the photosimulations assume a random rotation pattern. Considerent that appear in the photosimulations assume a random rotation pattern. Considerent the leveration Point Context map indicates the horizontal extent of view indicated to the Key Desviration Point Context map indicates the horizontal extent of various vision of the curvation of Vision to sculations the size dava and point of the commune the VIG visibility.
 The conde of view indicates the extent of VIG visibility.
 The conde of view indicates the extent of VIG visibility.
 The conde app

Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Iotal Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	118	205	39.0	48.0
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0









SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 1): Scenario 3: 2024-2030 Project construction added after the construction of Atlantic Shores South (Full Lease Build-out Including Atlantic Shores South)

Simulation Size: 66° in width by 29.3° in height. Images brackhold be viewed from a distance of 18 inches on the preted in order to obtain the proper perspective. performa

- Hordssin Size: 66' in width by 29.3' in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
 Offstore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location and dimensions of the constructed Block Blad WIG farm. This refraction coefficient days of the modervations of the constructed Block Blad WIG farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis results before days and the constructed Block Blad WIG farm. This refraction coefficient days of the onstructured Block Blad WIG farm. This refraction coefficient days is called from Observations of the constructed Block Blad WIG for an approximate of WIG subject from the SC was determined by human verified computer generated sources are of the earth and refraction. This variable from the SC and Inter of WIG's visible from the SC ourning yard from the actual number of WIG's visible in the respective view due to maximum height depending on the rotation position.
 The number of WIG's visible from the SC WIG's for the antual number of WIG's visible in the respective view due to maximum height depending on the rotation position.
 The constituent. Considered on the Key Deservation Point Context map indicates the horizontal extent of view indicated on the Key Deservation Point Context map indicates the horizontal extent of view indicates and the depending on the rotation position.
 The cond view indicate the extent of WIG wisbility.
 The subject of the card mating the project visibility.
 The visibil

Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	118	205	39.0	48.0
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0
Skipjack (OCS-A 0519)	2024-2030	853	0	33	Not Visible	Not Visible
Garden State (OCS-A 0482)	2023-2030	853	0	80	Not Visible	Not Visible
US Wind (OCS-A 0489 and 0490)	2024	938	0	101	Not Visible	Not Visible
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	157	164	19.3	42.2
Ocean Wind II (OCS-A 0532)	2026-2030	906	0	111	Not Visible	Not Visible
Mid-Atlantic Offshore Wind (OCS-A 0544)	by 2030	853	0	104	Not Visible	Not Visible
Ocean Wind East (OCS-A 0537)	by 2030	853	0	82	Not Visible	Not Visible
Attentive Energy (OCS-A 0538)	by 2030	853	7	101	42.4	43.9
Bight Wind Holdings (OCS-A 0539)	by 2030	853	13	148	41.8	43.8
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	17	95	39.5	43.9
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible









SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 1): Scenario 4: Full buildout of all lease areas without Atlantic Shores South

Simulation Size: 66° in width by 29.3° in height. Images that doubt the viewed from a distance of 18 inches on the prevent in order to obtain the proper perspective. percentra

Hordszin Size: 66' in width by 29.3' in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
Offstore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
Offstore Substation location and dimensions of the constructed Block Blad WIG farm. This refraction coefficient daval for moder waters of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG form Bar Mark and Platform.
"When there of WTGs visible from the KOP was determined by human verified computer generated curvature of WTGs visible from the KOP was determing screening resulting from vegation, structures, curvature of WTGs visible from the KOP was determined by human verified computer generated for subscreams dava the obstructions that appear in the photosimulations assume a random rotation pattern. Considering the largest WTG in the canual number of WTGs visible in the respective view due to maximum height depending on the rotation position.
The construct of view Indicates the extent of WTG visibility.
The construct on the key WTGs in the canual dual number of WTGs visible in the respective view due to maximum height depending on the rotation position.
The construct on the key WTGs in the computer set the photosimulations assume a random rotation pattern. Considerer

Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Iotal Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0
Skipjack (OCS-A 0519)	2024-2030	853	0	33	Not Visible	Not Visible
Garden State (OCS-A 0482)	2023-2030	853	0	80	Not Visible	Not Visible
US Wind (OCS-A 0489 and 0490)	2024	938	0	101	Not Visible	Not Visible
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	157	164	19.3	42.2
Ocean Wind II (OCS-A 0532)	2026-2030	906	0	111	Not Visible	Not Visible
Mid-Atlantic Offshore Wind (OCS-A 0544)	by 2030	853	0	104	Not Visible	Not Visible
Ocean Wind East (OCS-A 0537)	by 2030	853	0	82	Not Visible	Not Visible
Attentive Energy (OCS-A 0538)	by 2030	853	7	101	42.4	43.9
Bight Wind Holdings (OCS-A 0539)	by 2030	853	13	148	41.8	43.8
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	17	95	39.5	43.9
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible









SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 1): Scenario 5: Atlantic Shores South without the construction of other foreseeable planned activities

Simulation Size: 66° in width by 29.3° in height. Images that doubt the viewed from a distance of 18 inches on the prevent in order to obtain the proper perspective. percentra

Hordszin Size: 66' in width by 29.3' in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
Offstore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
Offstore Substation location and dimensions of the constructed Block Blad WIG farm. This refraction coefficient daval for moder waters of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG farm. This refraction coefficient daval for moderswatows of the constructed Block Blad WIG form Bar Mark and Platform.
"When there of WTGs visible from the KOP was determined by human verified computer generated curvature of WTGs visible from the KOP was determing screening resulting from vegation, structures, curvature of WTGs visible from the KOP was determined by human verified computer generated for subscreams dava the obstructions that appear in the photosimulations assume a random rotation pattern. Considering the largest WTG in the canual number of WTGs visible in the respective view due to maximum height depending on the rotation position.
The construct of view Indicates the extent of WTG visibility.
The construct on the key WTGs in the canual dual number of WTGs visible in the respective view due to maximum height depending on the rotation position.
The construct on the key WTGs in the computer set the photosimulations assume a random rotation pattern. Considerer

Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	118	205	39.0	48.0





SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Environmental Data

Date Taken: 08/25/2022 Time: 7:05 AM Temperature: 67°F Humidity: 84% Visibility*: 10+ miles Wind Direction: West-northwest Wind Speed: 3 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 16.23 feet AMSL

Key Observation Point Information

County: Ocean Town: Seaside Park Borough State: New Jersey Location: Seaside Park Beach Latitude, Longitude: 39.93530°N, 74.07163°W Direction of View (Center): East-northeast (58.6°) Field of View: 124° x 55°

Visual Resources Character Area: Commercial Beachfront, Seascape (SCA) Üser Group: Residents/Tourists, Fishermen Visually Sensitive Resource: Seaside Park Beach and Boardwalk, U.S. Life Saving Station No. 13





Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations



Project

Notes:

- Offshore Substation location and dimensions are based on r considered in this photosimulation are subject to potential modification. *Historical meteorological data predicts visibility within a limit of 10 statute miles. However, visibility may extend beyond this distance. The ph

Reasonably Foreseeable Projects Represented in Photosimulation

Year of evelopment	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP**	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
2025-2027	1,047	118	205	39.0	48.0
2023-2025	906	0	111	Not Visible	Not Visible
2024-2025	951	52	72	39.8	46.1
2023-2027	951	6	104	44.6	46.0
2024-2030	853	0	33	Not Visible	Not Visible
2023-2030	853	0	80	Not Visible	Not Visible
2024	938	0	101	Not Visible	Not Visible
2025-2030	1,047	157	164	19.3	42.2
2026-2030	906	0	111	Not Visible	Not Visible
by 2030	853	0	104	Not Visible	Not Visible
by 2030	853	0	82	Not Visible	Not Visible
by 2030	853	7	101	42.4	43.9
by 2030	853	13	148	41.8	43.8
by 2030	853	17	95	39.5	43.9
by 2030	853	0	99	Not Visible	Not Visible

ary publicly available project data. Projects for which this data is not

refraction index). • WTG positions in the photosimulations are based on a refraction value of 7/6 or an approximate 0.14 coefficient derived from observations of the constructed Block Islande Indexing Vertications of the constructed Block Islande Indexing Vertications of the approximate 0.14 coefficient derived from observations of the constructed Block Islande Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis results which use a refraction coefficient of 0.13. • **The number of WTGs visible from the KOP was determined by human verified computer generated counts performed in the 3D camera views considering screening resulting from vegetation, structures, curvature of the eartir feraction. This count may vary from the actual number of WTGs visible in the respective views due to masking completed during post processing which may include people, waves, backs, or other minor obstructions that apper the photograph. Additionally, the WTG counts assumed the WTG blades are in the upright position whereas the photosimulations assume a random rotation pattern. Considering the largest WTG in the cumulative array, this concounts or up to 236 ft (72 m) in lost maximum height depending on the rotation position. • The cone of view indicated on the Key Observation Point Context map indicates the horizontal extent of view only and does not indicate the extent of WTG visibility.





SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Existing Conditions (Panorama 2)

Key Observation Point Context

Simulation Size 66° in width by 29.3° in height. Images though the viewed from a distance of 18 inches the wavely? Tong on the prime in order to obtain the proper perspective.



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SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 2): Scenario 1: 2023-2025 Project Construction (Ocean Wind, Empire Wind, Empire Wind II)



- Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
 Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
 Offsore Substation location and dimensions of the constructed Block Blad WIG farm. This refraction coefficient daval for modervations of the constructed Block Blad WIG farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults wind use a reflection of 40.8 coefficient of 0.9 compared Block Blad WIG farm. This refraction coefficient daval for modervations of the constructed Block Blad WIG farm. This refraction coefficient daval for modervations of the constructed Block Blad WIG form Barbard and Plant Block Blad WIG form Black Black Blad WIG farm. This refraction in the 20 Camera views considered in This The form the actual number of WIGs wisble in the two was determined by human verified computer generated curvature of the earth and refraction. This refraction structures are the photosimulation stassume at readom not obstructions that appear in the photosimulation stassume a random rotation pattern. Considered This this This in the curvature of the location alto the VIGS wisble in the respective views due to maximum height depending on the rotation position.
 The construct on the curvation Point Context map indicates the horizontal extent or view only and does not indicate the extent of WIG wisbling.
 The context map appear blury or difficult to decipher due to rocation in mitation. The resolution in the redution blant starts are

Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0













SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 2): Scenario 2: Atlantic Shores Construction (2025-2027) added to Scenario 1 (Ocean Wind, Empire Wind, Empire Wind II, Atlantic Shores South)



Hotosimulation Size: 66' in width by 29.3' in height. Images should be viewed from 18 inches in order to total multi the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
WTG positions in the photosimulations are based on a refraction value of 7/6 or an approximate of the constructed Block Isad Wund Farm. This refraction coefficient derived from observations of the constructed Block Isad Wund Farm. This refraction coefficient target of the observations of the constructed Block Isad Wund Farm. This refraction coefficient target of the Isable from the COV was determined by human verified computer generated courses performed in the 3D camera views considering screening screening resulting from segation, structures, curvature of the earth article from the scale all number of WTGs visible from the COV was determined by human verified computer generated courses performed in the 3D camera views considering screening screening resulting from vegation, structures, curvature of the earth and refraction. This refraction. This refraction, This vertices wase, boast, or other innior obstructions that appear in the photosimulations assume a random rotation pattern. Considering the larges WTG in the canculative array, this could account for yos for the maximum height depending on the rotation position.
Procend of wise indicates the extent of WTG visibility.
Presolution of the coundative photosimulations balances the size and usability of the documents with the need to right provident position.
Provend of wise indicates the extent of WTG visibility.
Presolution of the coundative

Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
2023-2025	1,047	118	205	39.0	48.0
2024-2025	906	0	111	Not Visible	Not Visible
2023-2027	951	52	72	39.8	46.1
2025-2027	951	6	104	44.6	46.0
	Development 2023-2025 2024-2025 2023-2027	Year of Development Tip Height (feet) 2023-2025 1,047 2024-2025 906 2023-2027 951	Year of Development Marka Blade Tip Height (fect) Number of WTGs & SSS Visible from KOP ² 2023-2025 1.047 118 2024-2025 906 0 2023-2027 951 52	Vear of Development Number Trip Height (tect) Number Systems Number Systems Number Systems 2023-2025 10.47 118 2055 2024-2025 906 0.0 111 2023-2027 951 52.2 72	Year of DevelopmentNumber tip Height tip Height tip HeightNumber VHTGs VHTGs SSS Visible VHTGs SSS Visible VHTGs VersietNumber Distance Number Visible WTG Project2023-2025104711820539.02024-202590601111NetVisible2023-2027951527239.8













SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 2): Scenario 3: 2024-2030 Project construction added after the construction of Atlantic Shores South (Full Lease Build-out Including Atlantic Shores South)



Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available. WTGs are used for all foundation position. OS5 positions and dimensions considered in this photosimulation are subject to potential modification.
Offsore Substation location and dimensions of the constructed Block Blad WIG farm. This refraction coefficient daval for moder waters of the constructed Block Blad WIG farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults with use a reflection of the constructed Block Blad WIG farm. This refraction coefficient daval for moder views of the constructed Block Blad WIG farm. This refraction coefficient daval for moder views of the constructed Block Blad WIG form Bar and Platform.
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Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	118	205	39.0	48.0
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0
Skipjack (OCS-A 0519)	2024-2030	853	0	33	Not Visible	Not Visible
Garden State (OCS-A 0482)	2023-2030	853	0	80	Not Visible	Not Visible
US Wind (OCS-A 0489 and 0490)	2024	938	0	101	Not Visible	Not Visible
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	157	164	19.3	42.2
Ocean Wind II (OCS-A 0532)	2026-2030	906	0	111	Not Visible	Not Visible
Mid-Atlantic Offshore Wind (OCS-A 0544)	by 2030	853	0	104	Not Visible	Not Visible
Ocean Wind East (OCS-A 0537)	by 2030	853	0	82	Not Visible	Not Visible
Attentive Energy (OCS-A 0538)	by 2030	853	7	101	42.4	43.9
Bight Wind Holdings (OCS-A 0539)	by 2030	853	13	148	41.8	43.8
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	17	95	39.5	43.9
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible













SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 2): Scenario 4: Full buildout of all lease areas without Atlantic Shores South

Simulation Size: 66° in width by 29.3° in height. Images that doubt the viewed from a distance of 18 inches on the prevent in order to obtain the proper perspective. percentra

Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
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The number of VIGs visible from the KOP WIGs in the curvature of vision diacount for up to 236 t. (2 m) in lost maximum height depending on the rotation position.
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Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Ocean Wind (OCS-A 0498)	2024-2025	906	0	111	Not Visible	Not Visible
Empire Wind (OCS-A 0512)	2023-2027	951	52	72	39.8	46.1
Empire Wind II (OCS-A 0512)	2025-2027	951	6	104	44.6	46.0
Skipjack (OCS-A 0519)	2024-2030	853	0	33	Not Visible	Not Visible
Garden State (OCS-A 0482)	2023-2030	853	0	80	Not Visible	Not Visible
US Wind (OCS-A 0489 and 0490)	2024	938	0	101	Not Visible	Not Visible
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	157	164	19.3	42.2
Ocean Wind II (OCS-A 0532)	2026-2030	906	0	111	Not Visible	Not Visible
Mid-Atlantic Offshore Wind (OCS-A 0544)	by 2030	853	0	104	Not Visible	Not Visible
Ocean Wind East (OCS-A 0537)	by 2030	853	0	82	Not Visible	Not Visible
Attentive Energy (OCS-A 0538)	by 2030	853	7	101	42.4	43.9
Bight Wind Holdings (OCS-A 0539)	by 2030	853	13	148	41.8	43.8
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	17	95	39.5	43.9
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible













SPB01: Seaside Park Beach, Seaside Park Borough, Ocean County, New Jersey

Photosimulation (Panorama 2): Scenario 5: Atlantic Shores South without the construction of other foreseeable planned activities



- Hordosimulation Size: 66° in width by 29.3° in height. Images should be viewed from 18 inches in order to obtain the proper perspective. For on-screen viewing, user should zoom in until the 1-inch scale equals exactly one inch when measured on the screen.
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Project	Year of Development	Max Blade Tip Height (feet)	Potential Number of WTGs & OSSs Visible from KOP*	Total Number of WTGs & OSSs in Project	Theoretical Distance to Nearest Visible WTG (miles)	Theoretical Distance to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	118	205	39.0	48.0





