LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Environmental Data

Date Taken: 08/20/2020 Time: 9:32 AM Temperature: 76°F Humidity: 67% Visibility*: 10+ miles Wind Direction: North-northeast Wind Speed: 7 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 150.10 feet AMSL

Key Observation Point Information

County: Cape May Town: Lower State: New Jersey Location: Cape May Point State Park Latitude, Longitude: 38.93299°N, 74.96036°W Direction of View (Center): East-northeast (72.4°) Field of View: 124° x 55°

Visual Resources Character Area: Recreation, Seascape (SCA) User Group: Residents/Tourists Visually Sensitive Resource: Cape May Point State Park, Cape May Point State Park - Fishing Access, Cape May Point Borough Beach, Cape May Lighthouse, Bayshore Heritage Scenic Byway





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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)
Scenario 2	Atlantic Shores Offshore Wind South (OCS-A 0499)	2025-2027	1,047	145	205	45.0	58.9
	Ocean Wind (OCS-A 0498)	2023-2025	906	105	111	33.9	47.9
Scenario 1	Empire Wind (OCS-A 0512)	2024-2025	951	0	72	Not Visible	Not Visible
	Empire Wind II (OCS-A 0512)	2023-2027	951	0	104	Not Visible	Not Visible
	Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
	Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
	US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Scenario 3	Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
	Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
	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	0	101	Not Visible	Not Visible
	Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
	Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
	Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible
	3 Scenario 1 Scenario	Project Project Atlantic Shores Offshore Wind South (OCS-A 0499) Ocean Wind (OCS-A 0499) Empire Wind (OCS-A 0499) Empire Wind (OCS-A 0512) Empire Wind II (OCS-A 0512) Garden State (OCS-A 0519) Garden State (OCS-A 0482) US Wind (OCS-A 0489 and 0490) Ocean Wind II (OCS-A 0532) Atlantic Shores Offshore Wind 0490) Ocean Wind II (OCS-A 0532) Mid-Atlantic Offshore Wind (OCS-A 0534) Ocean Wind East (OCS-A 0537) Attentive Energy (OCS-A 0538) Bight Wind Holdings (OCS-A 0531) Invenergy Wind Offshore Wind Bight (OCS-A 0541)	Project Year of Development Atlantic Shores Offshore Wind South (OCS-A 0499) 2025-2027 Ocean Wind (OCS-A 0498) 2023-2025 Empire Wind (OCS-A 0512) 2024-2025 Empire Wind II (OCS-A 0512) 2023-2027 Skipjack (OCS-A 0512) 2023-2027 Garden State (OCS-A 0512) 2023-2030 US Wind (OCS-A 0482) 2023-2030 US Wind (OCS-A 0482) 2023-2030 Ocean Wind II (OCS-A 0519) 2025-2030 Ocean Wind II (OCS-A 0532) 2026-2030 Mid-Atlantic Shores Offshore Wind (OCS-A 0544) by 2030 Ocean Wind II (OCS-A 0532) 2026-2030 Mid-Atlantic Offshore Wind (OCS-A 0544) by 2030 Docean Wind East (OCS-A 0537) by 2030 Bight Wind Holdings (OCS-A 0539) by 2030 Atlantic Shores Offshore Wind Bight (OCS-A 0541) by 2030	Project Year of Development Max Blade Tip Height (feet) Atlantic Shores Offshore Wind South (OCS-A 0499) 2025-2027 1,047 Ocean Wind (OCS-A 0499) 2023-2025 906 Empire Wind (OCS-A 0512) 2024-2025 951 Empire Wind II (OCS-A 0512) 2023-2027 951 Skipjack (OCS-A 0512) 2024-2030 853 Garden State (OCS-A 0519) 2024-2030 853 US Wind (OCS-A 0482) 2023-2030 853 US Wind (OCS-A 0482) 2023-2030 1,047 Ocean Wind II (OCS-A 0519) 2024-2030 853 US Wind (OCS-A 0482) 2023-2030 1,047 Ocean Wind II (OCS-A 0539) 2025-2030 1,047 Ocean Wind II (OCS-A 0532) 2026-2030 906 Mid-Atlantic Offshore Wind (OCS-A 0544) by 2030 853 Ocean Wind East (OCS-A 0537) by 2030 853 Bight Wind Holdings (OCS-A 0539) by 2030 853 Atlantic Shores Offshore Wind (DSS-A 0541) by 2030 853 Invenergy Wind Offshore by 2030 853 <th>Project Year of Development Max Blade Tip Height (feet) Potential Number of WTGs & OSSs Visible (form KOP+* Atlantic Shores Offshore Wind South (OCS-A 0499) 2025-2027 1.047 145 Ocean Wind (OCS-A 0499) 2023-2025 906 105 Empire Wind (OCS-A 0499) 2023-2027 951 0 Empire Wind (OCS-A 0512) 2024-2025 951 0 Skipjack (OCS-A 0512) 2024-2030 853 33 Garden State (OCS-A 0482) 2023-2030 853 80 US Wind (OCS-A 0482) 2024-2030 853 80 US Wind (OCS-A 0482) 2024-2030 853 80 US Wind (OCS-A 0489 and 0490) 2024-2030 853 80 US Wind (OCS-A 0549) 2025-2030 1.047 13 Ocean Wind II (OCS-A 0532) 2026-2030 906 111 Mid-Atlantic Offshore Wind (OCS-A 0549) by 2030 853 0 Ocean Wind II (OCS-A 0532) by 2030 853 0 Ocean Wind East (OCS-A 0538) by 2030 853 0</th> <th>Project Year of Development Max Blade Tip Height (feet) Potential Number of Visits & OSSS Visits OSSS Total Number of Visits & OSSS Visits OSSS Allantic Shores Offshore Wind South (OCS-A 0499) 2025-2027 1,047 145 205 Ocean Wind (OCS-A 0499) 2023-2025 906 105 111 Imple Wind (OCS-A 0499) 2024-2025 951 0 72 Empire Wind (ICS-A 0512) 2024-2025 951 0 104 Skipjack (OCS-A 0512) 2024-2020 853 33 33 Garden State (OCS-A 0512) 2024-2030 853 80 80 US Wind (OCS-A 0512) 2024-2030 853 80 80 US Wind (OCS-A 0482) 2024-2030 853 80 80 US Wind (OCS-A 0482) 2024-2030 1047 13 164 Ocean Wind II (OCS-A 0482) 2025-2030 1047 13 164 Ocean Wind II (OCS-A 0532) 2026-2030 906 111 111 Mid-Attantic Offshore Wind (OCS-A 0537) by 2030 853 0</th> <th>Project New Read of Development Max Read Fip of WTG & G. 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SSS Other Mode Notes in Maxement Visible from Vice & OSS Development Vice & OSS Developmet Vice & OSS Development Vice & OSS

- onsidered in this photosimulation are subject to pote *Historical meteorological data predicts visibility within a limit of 10 statute miles. However, visibility may extend beyond this d WTG positions in the photosimulations are based on a refraction value of 7/6 or an appro
- ative visibility results (i.e. greater turbine visibility) umber of WTGs visible from the KOP was determ



Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

Reasonably Foreseeable Projects Represented in Photosimulation

ibility) that the viewshed analysis results which use a refraction coefficient of 0.13. etermined by human verified computer generated counts performed in the 3D ca her of WTGs visible in the respective views due to making completed during po iction. 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, boats, or other minor obstructions that app photograph. Additionally, the WTG counts assumed the WTG blades are in the upright position whereas the photosimulations assume a random notation pattern. Considering the largest WTG in the cumulative array, this unit for up to 236 ft. (72 m) in lost maximum height depending on the notation position. 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. Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening featuress are not considered. Therefore, in this view, the number of visible turbine ted on the map may not match the table due to the presence of landscape screening features.





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.



Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Existing Conditions (Panorama 1)

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.









LT02: Cape May Point State Park, Lower Township, Cape May 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

- 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.
 Ofkhore 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. OSS 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 0.14 coefficient derved from observations of the constructed Block sland Wurd Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turtine visibility) that the viewshed analysis results which use a refraction coefficient of 0.13.
 WTG tower, blades, and nacelle use the BCPM and FAA required color RAL 900. The base and platform use RAL 1023 in accordance with USC arguidations. The transperiation of the scath and effection. This count may vary from the scalt mumber of WTGs value for more black on making the photosimulation assume a reaction coefficient grant on the KOP was determine the photosimulations assume a random rotation pattern. Considering the largest WTG is in the coundative array. His cound account for up to 236 th, (72 m) in lost maximum height depending on the rotation position.
 The coefficient of view indicated on the KOP bevration Point Context map indicates the horizontal for Use 0.236 th, (72 m) in lost maximum height depending on the rotation position.
 The coefficient of the coefficient of WTG visibility.
 The resolution of the cumulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similary to human vision, very distant turbuism any appear burry or difficult to

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	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible

Key Observation Point Context

MATCH LINE** LT02 PANO #2









LT02: Cape May Point State Park, Lower Township, Cape May 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)



- 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.
 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. OSS 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 0.14 coefficient derved from observations of the constructed Block sland 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.
 WTG tower, blades, and nacelle use the BOEM and RAA required color RAL 900. The base and platform use RAL 102 in accordance with USC caputal source mixing yier form the scale in mome of WTGs visible from the KOP was determined by luman verified computer generated ormater of the scarth and refraction. This count may vary from the acual number of WTGs (visible not the scale and platform septiation, structures, ormatter of the scarth and refraction. This appear in 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 currulus indicates the horizontal leven of vision (1, 2 m) in lost maximum height depending on the rotation position.
 The cond view indicated on the key Observation Point Context map indicates the horizontal levent of vision vision wereas the size and usability of the documents with the need for high resolution to see distant project components. Similary to human vision, very distant turbulem s

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	145	205	45.0	58.9
Ocean Wind (OCS-A 0498)	2024-2025	906	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible

Key Observation Point Context











LT02: Cape May Point State Park, Lower Township, Cape May 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 beauty 1° hing on the printed be viewed from a distance of 18 inches on the printed in order to obtain the proper perspective. personna

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.
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. OSS opositions and dimensions considered in this photosimulation are subject to potential modification.
Offstore Substation location and dimensions considered in this photosimulation are subject to potential modification.
Offstore Substation location of the constructed Block Island Wind farm. This refraction coefficient may jeld more conservative visibility results (i.e. greater turbine visibility) that the viewshed on the science of the constructed Block Island Wind farm. This refraction coefficient tany jeld more conservative visibility results (i.e. greater turbine visibility) that the viewshed on the State of the Constructed Block Island Wind farm. This refraction no set subject to Wind State Island Block Island Wind farm. This refraction no set subject to Wind State Island Farm. This result with the viewshed block was determined by human verified computer generated curvature of the earth and refraction. This count may vary from the actual number of WTGs visible in the strong count may vary from the actual number of WTGs visible in the respective views due to maximum obstructions that appear in the photosimulation sasume a random rotation pattern. Considering the larged WTG is the curvature of MTGs visible in the second position.
The colution of the curvature of WTG visibility for the count may vary indicates the horizontal extent of view indicated on the key Observation Point Context map indicates the horizontal extent of visible of the earth and reflexine. This comparetion positorul.

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	145	205	45.0	58.9
Ocean Wind (OCS-A 0498)	2024-2025	906	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible
Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
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	0	101	Not Visible	Not Visible
Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible

Key Observation Point Context

MATCH LINE** LT02 PANO #2





MATCH LINE** LT02 PANO #2





Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May 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

- 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.
 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 positions. 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 14 coefficient derived from observations of the constructed Block Island Wind Fam. This refraction coefficient may yield more conservative visibility results (i.e. greater turtine visibility) that the viewshed analysis estudies with the are refraction coefficient do 0.13.
 With tower, block and nacelie use GGC regulated to 0.14 A required color RAL 900. The base and platform the GGC regulation in the 3D camera views considering screening resulting from vegreation, structures, curvature of the earth and refraction. This was determined by human verified computer generated curvature of the earth and refraction. This that appear in the photosimulations assume a random rotation pattern obstructions that appears in the photosimy Additionally the WGC counts assumed the WTG blades are in the upright position whereas the photosimulations for Corrections of the curvature of the earth and TG in the curvature area, this could account for up to 236 ft. (27 m) in lost maximum height depending on the retation position.
 The conde view indicated on the Key Observation Point Context map indicates the horizontal extent of wise only and be extent of the orgen and correction science in the wise of the earth and correction externations.
 The cost of wiew indicated and the Repending on the retation 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	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible
Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
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	0	101	Not Visible	Not Visible
Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible

Key Observation Point Context





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LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

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



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.
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. OSS 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 0.14 coefficient derved from observations of the constructed Block sland 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.
WTG tower, blades, and nacelle use the BOEM and RAA required color RAL 900. The base and platform use RAL 102 in accordance with USC caputal source mixing yier form the scale in mome of WTGs visible from the KOP was determined by luman verified computer generated ormater of the scarth and refraction. This count may vary from the acual number of WTGs (visible not the scale and platform septiation, structures, ormatter of the scarth and refraction. This appear in 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 currulus indicates the horizontal leven of vision (1, 2 m) in lost maximum height depending on the rotation position.
The cond view indicated on the key Observation Point Context map indicates the horizontal levent of vision vision wereas the size and usability of the documents with the need for high resolution to see distant project components. Similary to human vision, very distant turbulem s

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	145	205	45.0	58.9
	2023-2025	1,047	145	205	45.0	58.9

Key Observation Point Context



LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Environmental Data

Date Taken: 08/25/2022 Time: 2:35 PM Temperature: 88°F Humidity: 40% Visibility*: 10+ miles Wind Direction: South Wind Speed: 16 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 150.10 feet AMSL

Key Observation Point Information

County: Cape May Town: Lower State: New Jersey Location: Cape May Point State Park Latitude, Longitude: 38.93299°N, 74.96036°W Direction of View (Center): South-southeast (149.4°) Field of View: 124° x 55°

Visual Resources Character Area: Recreation, Seascape (SCA) User Group: Residents/Tourists Visually Sensitive Resource: Cape May Point State Park, Cape May Point State Park - Fishing Access, Cape May Point Borough Beach, Cape May Lighthouse, Bayshore Heritage Scenic Byway





	Reasonably	Toreseear	le i lojec	ts Represe	inted in Fi	lotosimu	
	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)
Scenario 2	Atlantic Shores Offshore Wind South (OCS-A 0499)	2025-2027	1,047	145	205	45.0	58.9
	Ocean Wind (OCS-A 0498)	2023-2025	906	105	111	33.9	47.9
Scenario 1	Empire Wind (OCS-A 0512)	2024-2025	951	0	72	Not Visible	Not Visible
	Empire Wind II (OCS-A 0512)	2023-2027	951	0	104	Not Visible	Not Visible
	Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
	Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
	US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Scenario 3	Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
	Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
	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	0	101	Not Visible	Not Visible
	Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
	Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
	Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible
es:							

- onsidered in this photosimulation are subject to pote *Historical meteorological data predicts visibility within a limit of 10 statute miles. However, visibility may extend beyond this d WTG positions in the photosimulations are based on a refraction value of 7/6 or an appro
- rative visibility results (i.e. greater turbine visibility) that the viewshed analysis results which use a refraction coefficient of 0.13, umber of WTGs visible from the KOP was determined by human verified computer generated counts performed in the 3D on. This count may vary from the actual number of WTGs visible in the respective views due to masking completed during por

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

ATLANTIC SHORES

🥽 offshore wind

Reasonably Foreseeable Projects Represented in Photosimulation

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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.



Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Existing Conditions (Panorama 2)





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Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Photosimulation (Panorama 2): 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

- 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. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location 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 0.14 coefficient derived from observations of the constructed Block Island WInd Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults and nacelle use the 60EM and FAA required color RAL 9010. The base and platform user RAL 1023 in accordance with USCG regulations.
 The number of WTGs visible from the K2O was determined by human verified computer generated counts performed in the 3D carrent views considering screening screening screening the location and the Caromas assumed the WTG blades are in the upright position whereas the photosimulation sassume a random rotation pattern. Considering the largest WTG in the cardual beat.
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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	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible

Key Observation Point Context







Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May 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)



- 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. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location 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 0.14 coefficient derived from observations of the constructed Block Island WInd Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults and nacelle use the 60EM and FAA required color RAL 9010. The base and platform user RAL 1023 in accordance with USCG regulations.
 The number of WTGs visible from the K2O was determined by human verified computer generated counts performed in the 3D carrent views considering screening screening screening the location and the Caromas assume the WTG blades are in the upright position whereas the photosimulation sassume a random rotation pattern. Considering the largest WTG in the cardual beat.
 The construction of the cardinal the depending on the rotation position.
 The assume the wise indicates the potential robustion stance structure requires and use of wise indicates and indicates the horizontal extent of wise not account for up to 236 tr. (27 m) in lost maximum height depending on the rotation position.
 The condition of the current robustion to set distant project components. Similarly to human vision, very distant turbine may appeare blury or difficult to decipher due to roso

Project	Year of Development	Max Blade Tip Height (feet)	Of WTGs & OSSs Visible from KOP*	Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	to Furthest Visible WTG (miles)
Atlantic Shores Offshore Wind South (OCS-A 0499)	2023-2025	1,047	145	205	45.0	58.9
Ocean Wind (OCS-A 0498)	2024-2025	906	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible

Key Observation Point Context







Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May 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)

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

- Antosimulation 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. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
 Off positions in the photosimulations are based on a refraction order Block Mad WmG Farm. This refraction coefficient derived from observations of the constructed Block Mad WmG 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 towse, Ibades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform (JSI) as accordinate with USG regulations.
 "The number of WTGs visible from the KOP was determined by human verified computer generated wite state the BOEM and FAA required to and with result of KS visible in the VDF was determined by human verified computer generated for the saturation of the statu that a plate in the photosimulations assume a transform or taking and the faction. This count may vary from the actual number of WTGs visible in the respective views due to masimum or plattuctions that appear in the photosimulations assume a random rotation pattern. Considering the lengething non-tonextom patients."
 The code on the indicate the extent of WTG visibility.
 The resolution of the curranduke photosimulations balances the size and usability of the documents with turbine may appear bury or difficult to decipher due to complexe. Similarly to human vision, very distatt turbines may appear bury or difficult to decipher due to conduste. T

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	145	205	45.0	58.9
Ocean Wind (OCS-A 0498)	2024-2025	906	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible
Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
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	0	101	Not Visible	Not Visible
Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible

Key Observation Point Context





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Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May 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

- 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. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location 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 0.14 coefficient derived from observations of the constructed Block Island WInd Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults and nacelle use the 60EM and FAA required color RAL 9010. The base and platform user RAL 1023 in accordance with USCG regulations.
 The number of WTGs visible from the K2O was determined by human verified computer generated counts performed in the 3D carrent views considering screening screening screening the location and the Caromas assume the WTG blades are in the upright position whereas the photosimulation sassume a random rotation pattern. Considering the largest WTG in the cardual beat.
 The construction of the cardinal the depending on the rotation position.
 The assume the wise indicates the potential robustion stance structure requires and use of wise indicates and indicates the horizontal extent of wise not account for up to 236 tr. (27 m) in lost maximum height depending on the rotation position.
 The condition of the current robustion to set distant project components. Similarly to human vision, very distant turbine may appeare blury or difficult to decipher due to roso

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 WTO (miles)
Ocean Wind (OCS-A 0498)	2024-2025	906	105	111	33.9	47.9
Empire Wind (OCS-A 0512)	2023-2027	951	0	72	Not Visible	Not Visible
Empire Wind II (OCS-A 0512)	2025-2027	951	0	104	Not Visible	Not Visible
Skipjack (OCS-A 0519)	2024-2030	853	33	33	25.7	34.1
Garden State (OCS-A 0482)	2023-2030	853	80	80	15.9	29.6
US Wind (OCS-A 0489 and 0490)	2024	938	98	101	32.6	49.4
Atlantic Shores Offshore Wind North (OCS-A 0549)	2025-2030	1,047	13	164	55.5	59.0
Ocean Wind II (OCS-A 0532)	2026-2030	906	111	111	26.0	43.2
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	0	101	Not Visible	Not Visible
Bight Wind Holdings (OCS-A 0539)	by 2030	853	0	148	Not Visible	Not Visible
Atlantic Shores Offshore Wind Bight (OCS-A 0541)	by 2030	853	0	95	Not Visible	Not Visible
Invenergy Wind Offshore (OCS-A 0542)	by 2030	853	0	99	Not Visible	Not Visible

Key Observation Point Context







Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

LT02: Cape May Point State Park, Lower Township, Cape May County, New Jersey

Photosimulation (Panorama 2): 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

- 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. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
 Offstore Substation location 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 0.14 coefficient derived from observations of the constructed Block Island WInd Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) that the viewshed analysis tesults and nacelle use the 60EM and FAA required color RAL 9010. The base and platform user RAL 1023 in accordance with USCG regulations.
 The number of WTGs visible from the K2O was determined by human verified computer generated counts performed in the 3D carrent views considering screening screening screening the location and the Caromas assume the WTG blades are in the upright position whereas the photosimulation sassume a random rotation pattern. Considering the largest WTG in the cardual beat.
 The construction of the cardinal the depending on the rotation position.
 The assume the wise indicates the potential robustion stance structure requires and use of wise indicates and indicates the horizontal extent of wise not account for up to 236 tr. (27 m) in lost maximum height depending on the rotation position.
 The condition of the current robustion to set distant project components. Similarly to human vision, very distant turbine may appeare blury or difficult to decipher due to roso

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	145	205	45.0	58.9



