

SIC02: Townsend’s Inlet Bridge, Sea Isle City, Cape May County, New Jersey

Environmental Data

Date Taken: 08/25/2022
Time: 4:58 PM
Temperature: 84°F
Humidity: 53%
Visibility*: 10+ miles
Wind Direction: South-southeast
Wind Speed: 10 mph
Conditions Observed: Fair

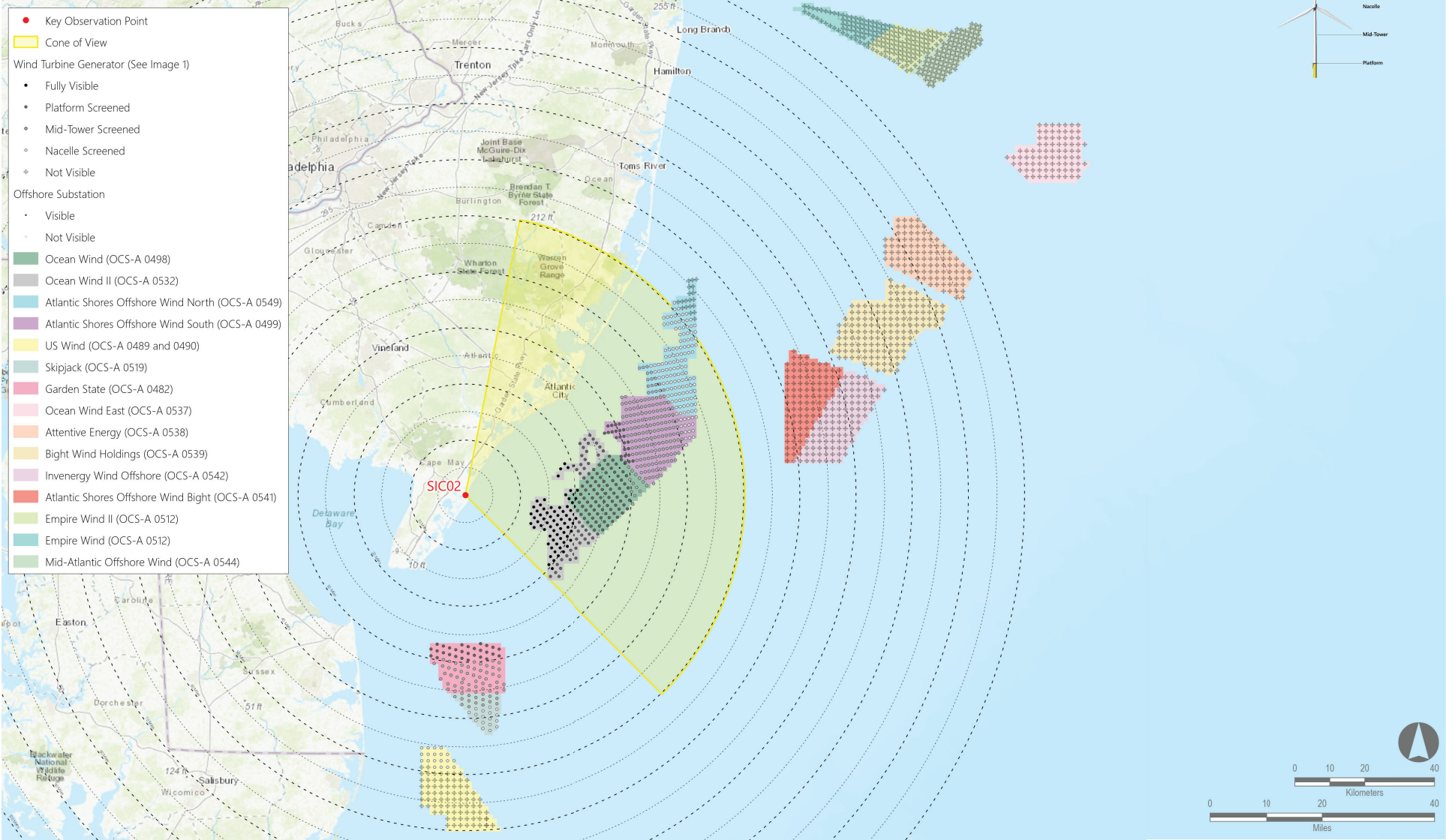
Camera Information
Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 40.18 feet AMSL

Key Observation Point Information

County: Cape May
Town: Ocean City
State: New Jersey
Location: Townsend's Inlet Bridge
Latitude, Longitude: 39.11919°N, 74.71576°W
Direction of View (Center): East-northeast (73.4°)
Field of View: 124° x 55°

Visual Resources
Character Area: Open Water/Ocean, Undeveloped Bay, Seascape (SCA)
User Group: Residents/Tourists
Visually Sensitive Resource: Sea Isle City Beach Dune Upland, Townsend Inlet Bridge (SI&A #3100003)

Key Observation Point Context



Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

Reasonably Foreseeable Projects Represented in Photosimulation

| | | 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 5 | Scenario 2 | Atlantic Shores Offshore Wind South (OCS-A 0499) | 2025-2027 | 1,047 | 200 | 205 | 27.4 | 43.6 |
| | | Ocean Wind (OCS-A 0498) | 2023-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| Scenario 4 | 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 | 1 | 33 | 35.3 | 42.2 |
| | | Garden State (OCS-A 0482) | 2023-2030 | 853 | 62 | 80 | 26.6 | 35.7 |
| | Scenario 3 | 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 | 134 | 164 | 37.6 | 51.1 |
| | | Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| | | 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 |

Notes:

- 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. OSS positions and dimensions 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 photosimulations assume visibility extends to the limit of physical visibility (including a standard 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 Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than 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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

MATCH LINE SIC02 PANO #2



ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, Cape May County, New Jersey

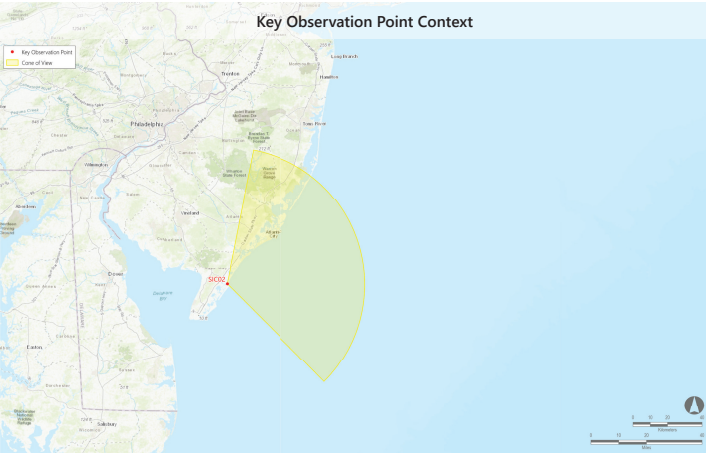
Existing Conditions (Panorama 1)

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.

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.





ATLANTIC SHORES

offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, Cape May County, New Jersey

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

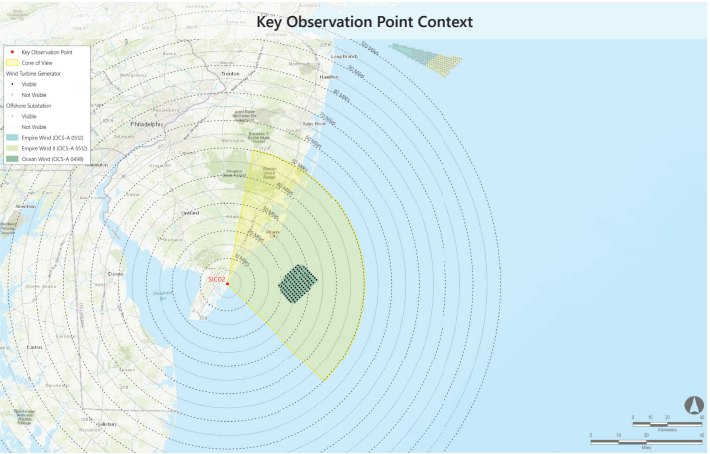
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOCM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 111 | 111 | 18.5 | 32.6 |
| 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 |





ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, 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)

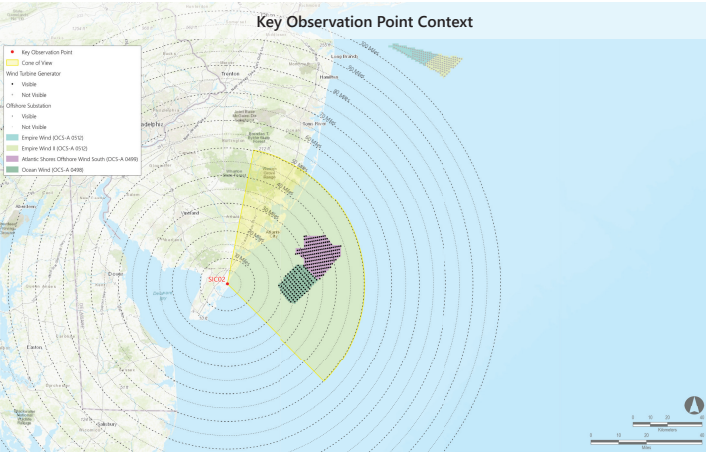
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 7" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 200 | 205 | 27.4 | 43.6 |
| Ocean Wind (OCS-A 0498) | 2024-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| 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 |





ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, 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)

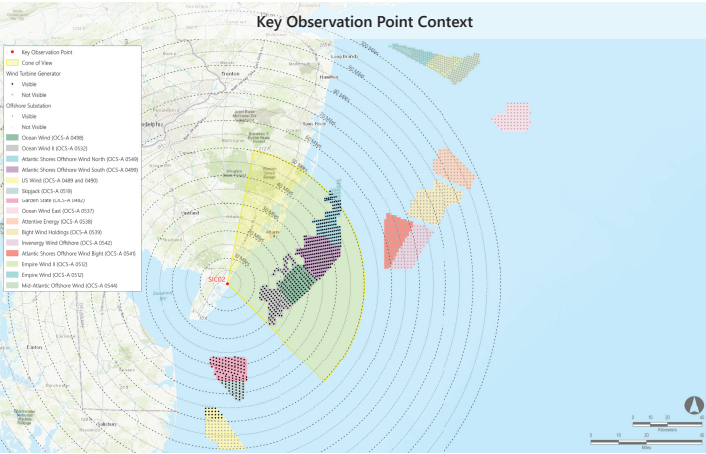
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This view should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform use RAL 1003 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 200 | 205 | 27.4 | 43.6 |
| Ocean Wind (OCS-A 0498) | 2024-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| 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 |
| Skippack (OCS-A 0519) | 2024-2030 | 853 | 1 | 33 | 35.3 | 42.2 |
| Garden State (OCS-A 0482) | 2023-2030 | 853 | 62 | 80 | 26.6 | 35.7 |
| 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 | 134 | 164 | 37.6 | 51.1 |
| Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| 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 |
| Right 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 |
| Inverenergy Wind Offshore (OCS-A 0542) | by 2030 | 853 | 0 | 99 | Not Visible | Not Visible |





ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, Cape May County, New Jersey

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

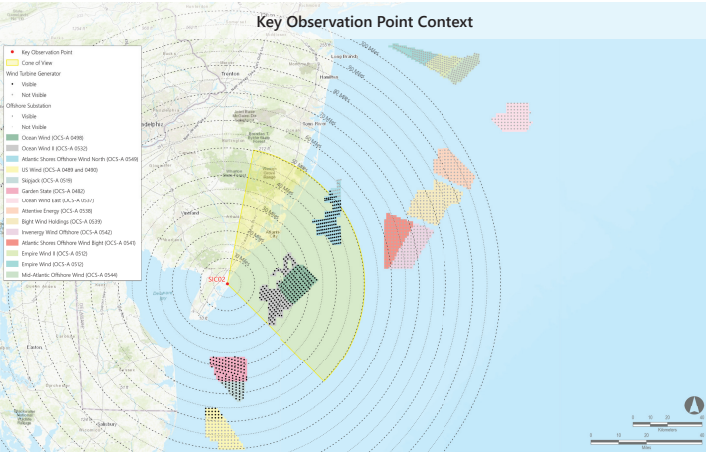
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

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Notes:

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- 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) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
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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 | 111 | 111 | 18.5 | 32.6 |
| 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 | 1 | 33 | 35.3 | 42.2 |
| Garden State (OCS-A 0482) | 2023-2030 | 853 | 62 | 80 | 26.6 | 35.7 |
| 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 | 134 | 164 | 37.6 | 51.1 |
| Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| 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 |
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MATCH LINE SIC02 PANO #2



ATLANTIC SHORES offshore wind

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SIC02: Townsend’s Inlet Bridge, Sea Isle City, Cape May County, New Jersey

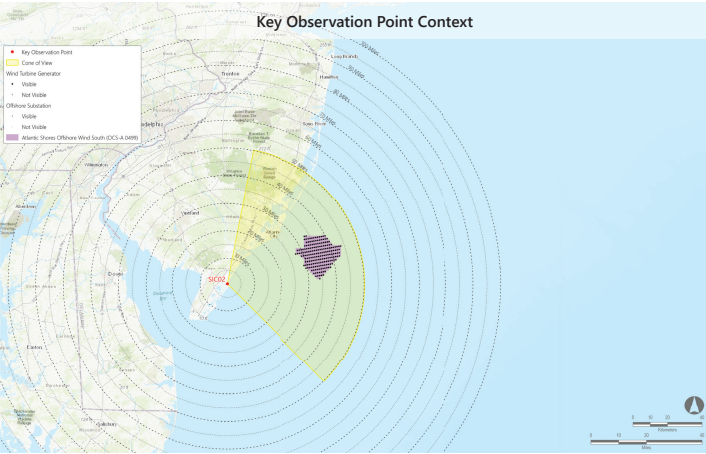
Photosimulation (Panorama 1): Scenario 5: Atlantic Shores South without the construction of other foreseeable planned activities

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

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- Notes:**
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| Atlantic Shores Offshore Wind South (OCS-A-0499) | 2023-2025 | 1,047 | 200 | 205 | 27.4 | 43.6 |



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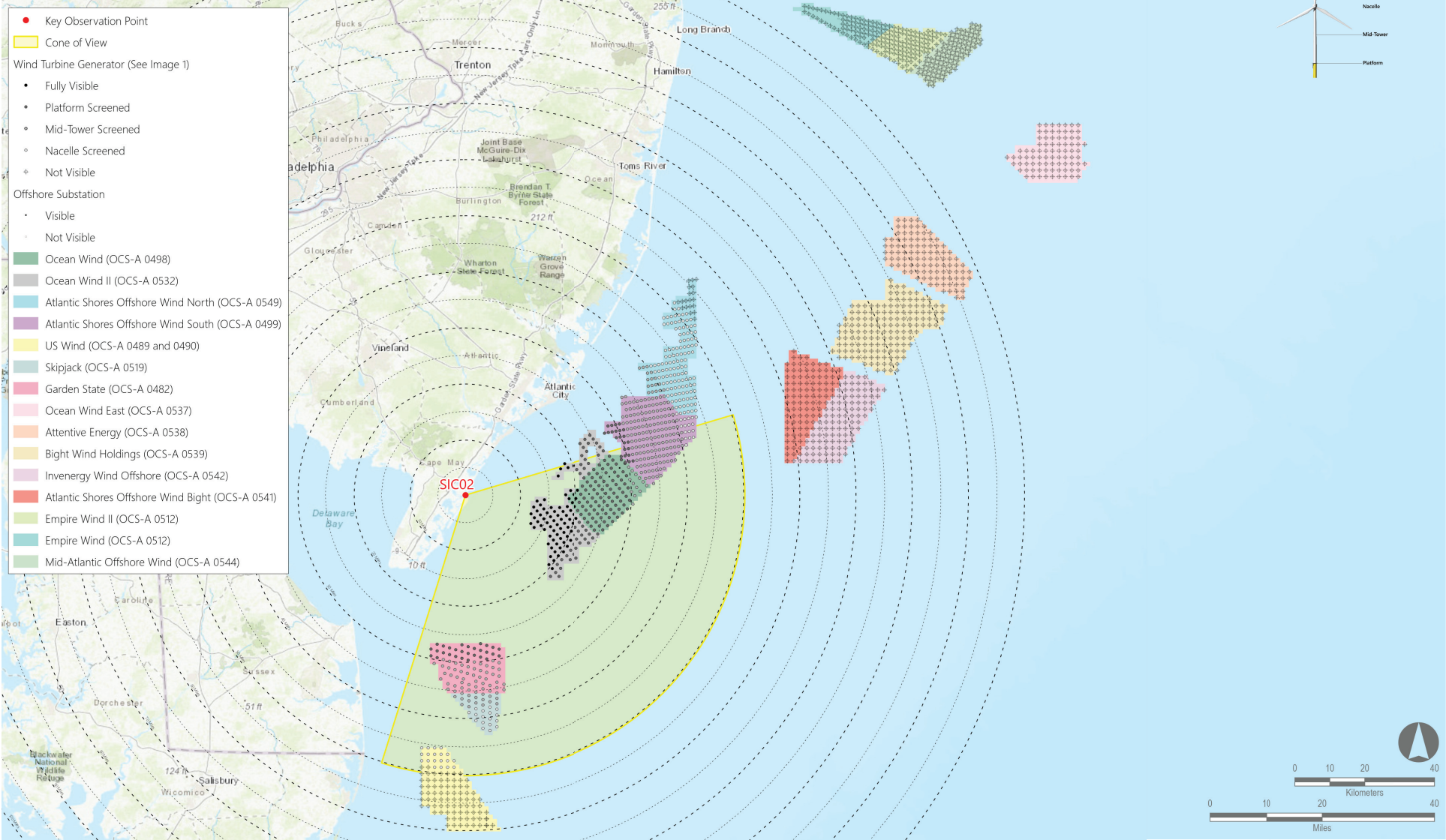
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Lens Focal Length: 50 mm
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Town: Ocean City
State: New Jersey
Location: Townsend’s Inlet Bridge
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Field of View: 124° x 55°

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User Group: Residents/Tourists
Visually Sensitive Resource: Sea Isle City Beach Dune Upland, Townsend Inlet Bridge (SI&A #3100003)

Key Observation Point Context



Reasonably Foreseeable Projects Represented in Photosimulation

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| | | Ocean Wind (OCS-A 0498) | 2023-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| | Scenario 1 | Empire Wind (OCS-A 0512) | 2024-2025 | 951 | 0 | 72 | Not Visible | Not Visible |
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| | | 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 | 134 | 164 | 37.6 | 51.1 |
| | | Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| | | 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 |
| | | | | | | | | |
| | | | | | | | | |

Notes:

- 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. OSS positions and dimensions 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 photosimulations assume visibility extends to the limit of physical visibility (including a standard 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 Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than 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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.



MATCH LINE SIC02 PANO #1



ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend's Inlet Bridge, Sea Isle City, Cape May
County, New Jersey

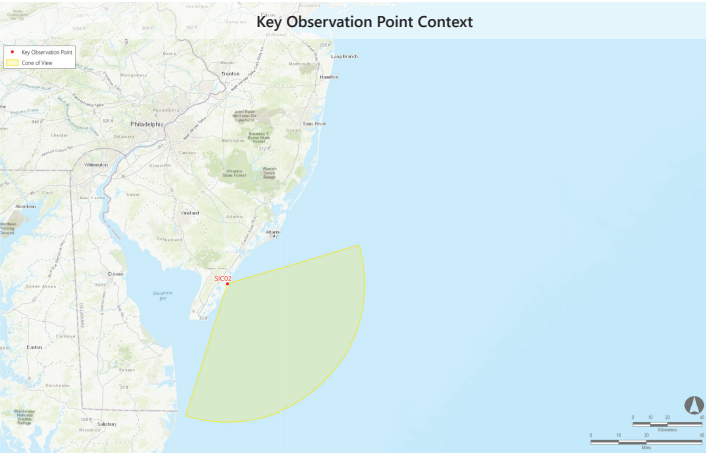
Existing Conditions (Panorama 2)

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.

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.





ATLANTIC SHORES

offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend’s Inlet Bridge, Sea Isle City, Cape May County, New Jersey

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

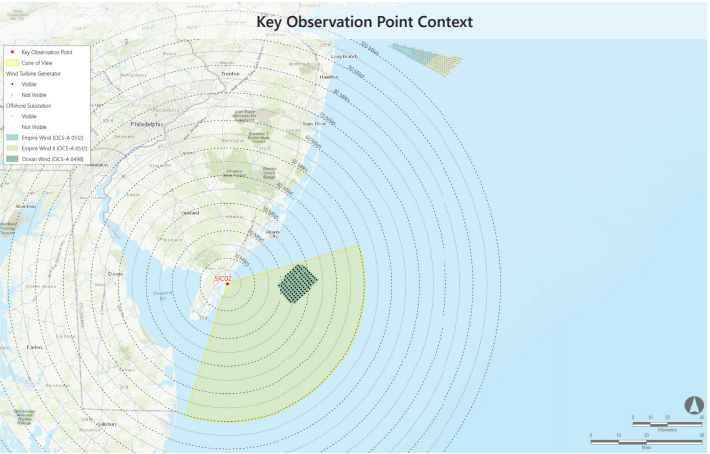
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOCM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 111 | 111 | 18.5 | 32.6 |
| 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 |





ATLANTIC SHORES

offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend’s Inlet Bridge, Sea Isle City, 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)

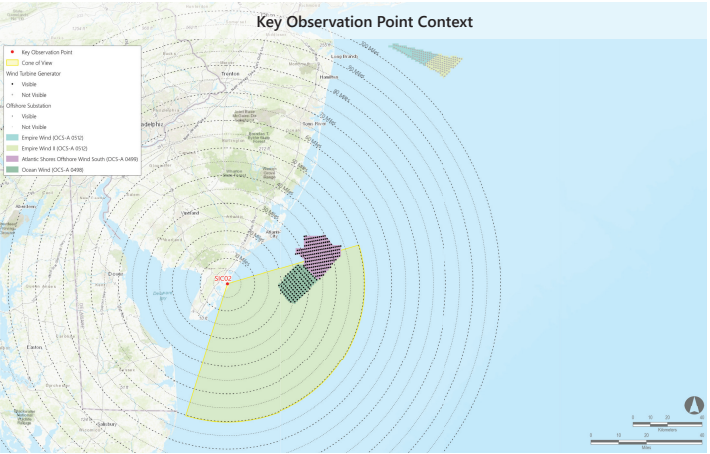
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOCM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 200 | 205 | 27.4 | 43.6 |
| Ocean Wind (OCS-A 0498) | 2024-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| 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 |





ATLANTIC SHORES

offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend’s Inlet Bridge, Sea Isle City, 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)

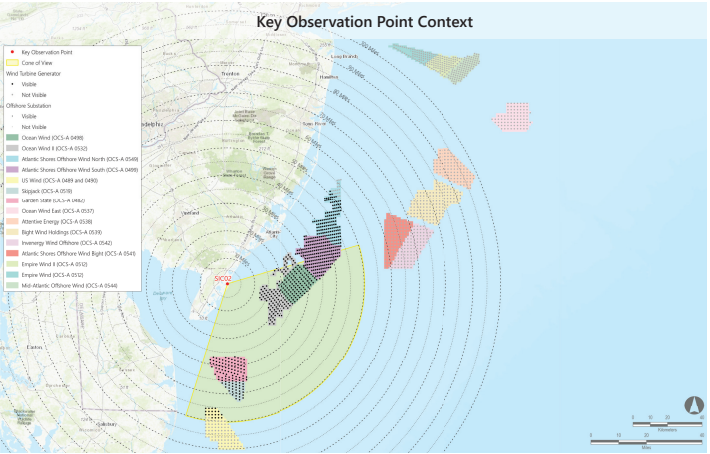
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This view should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 200 | 205 | 27.4 | 43.6 |
| Ocean Wind (OCS-A 0498) | 2024-2025 | 906 | 111 | 111 | 18.5 | 32.6 |
| 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 |
| Skippack (OCS-A 0519) | 2024-2030 | 853 | 1 | 33 | 35.3 | 42.2 |
| Garden State (OCS-A 0482) | 2023-2030 | 853 | 62 | 80 | 26.6 | 35.7 |
| 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 | 134 | 164 | 37.6 | 51.1 |
| Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| 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 |
| Right 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 |
| Invernergy Wind Offshore (OCS-A 0542) | by 2030 | 853 | 0 | 99 | Not Visible | Not Visible |





ATLANTIC SHORES offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend’s Inlet Bridge, Sea Isle City, Cape May County, New Jersey

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

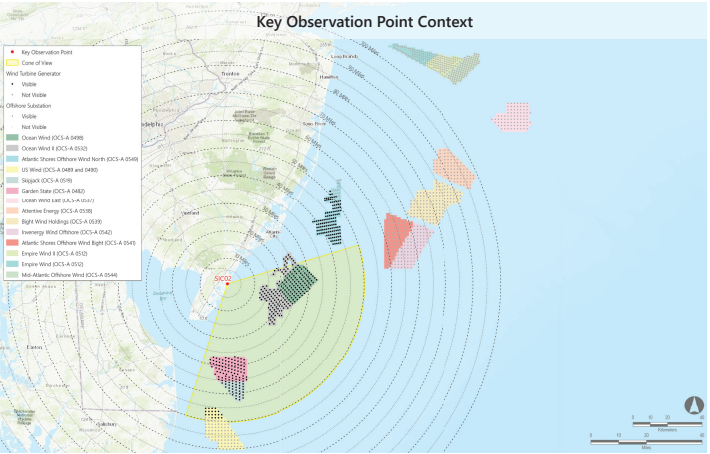
Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 18 inches in order to obtain the proper perspective.

This size should be exactly 1" long on the printed panorama.

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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
- WTG tower, blades, and nacelle use the BOEM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
- *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 earth and refraction. 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 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 cumulative array, this could account for 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.
- The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
- The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 | 111 | 111 | 18.5 | 32.6 |
| 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 | 1 | 33 | 35.3 | 42.2 |
| Garden State (OCS-A 0482) | 2023-2030 | 853 | 62 | 80 | 26.6 | 35.7 |
| 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 | 134 | 164 | 37.6 | 51.1 |
| Ocean Wind II (OCS-A 0532) | 2026-2030 | 906 | 111 | 111 | 12.1 | 26.0 |
| Mid-Atlantic Offshore Wind (OCS-A 0544) | by 2030 | 853 | 0 | 104 | Not Visible | Not Visible |
| Ocean Wind East (OCS-A 0517) | 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 |
| Invernergy Wind Offshore (OCS-A 0542) | by 2030 | 853 | 0 | 99 | Not Visible | Not Visible |





ATLANTIC SHORES

offshore wind

Appendix A: Atlantic Shores Offshore Wind Cumulative Photosimulations

SIC02: Townsend’s Inlet Bridge, Sea Isle City, 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 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.
 - 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. 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 derived from observations of the constructed Block Island Wind Farm. This refraction coefficient may yield more conservative visibility results (i.e. greater turbine visibility) than the viewshed analysis results which use a refraction coefficient of 0.13.
 - WTG tower, blades, and nacelle use the BOCM and FAA required color RAL 9010. The base and platform use RAL 1023 in accordance with USCG regulations.
 - 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 earth and refraction. 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 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 cumulative array, this could account for 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.
 - The resolution of the cumulative photosimulations balances the size and usability of the documents with the need for high resolution to see distant project components. Similarly to human vision, very distant turbines may appear blurry or difficult to decipher due to resolution limitations.
 - The Key Observation Point Context map considers screening by curvature of the earth, viewer height, and turbine height. Landscape screening features are not considered. Therefore, in this view, the number of visible turbines depicted on the map may not match the table due to the presence of landscape screening features.

| 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 (OC3-A 0499) | 2023-2025 | 1,047 | 200 | 205 | 27.4 | 43.6 |

