VINEYARD MID-ATLANTIC

CONSTRUCTION AND OPERATIONS PLAN

VOLUME II

JANUARY 2025



PREPARED BY:

Epsilon ASSOCIATES INC.

SUBMITTED BY:

VINEYARD MID-ATLANTIC LLC

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

PUBLIC VERSION

Vineyard Mid-Atlantic COP

Appendix II-J Seascape, Landscape, and Visual Impact Assessment (Part 2)

- Appendix E Photo Simulations

Prepared by:
Saratoga Associates

Prepared for:
Vineyard Mid-Atlantic LLC



January 2025

Revision	Date	Description
0	January 2024	Initial submission.
1	July 2024	Initial submission of SLVIA Appendix F- Preliminary Visual Assessment – Onshore Substations.
2	November 2024	Updated to address Bureau of Ocean Energy Management Round 2 Comments and to incorporate revisions to the Project Design Envelope.
2	January 2025	Resubmitted without revisions.

Appendix E

PHOTO SIMULATIONS



Photographic Simulations

Photo Location Map

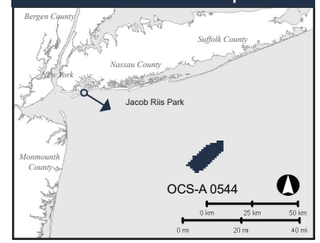


Photo Data

Date/Time:	23-May-2023 / 17:20
Light Conditions:	Front Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	44° 33' 57.79" N
Longitude:	73° 52' 08.87" W
Elevation (+/-):	4.9 m (16 ft)
Nearest Turbine:	69.3 km (43.0 mi)
Farthest Turbine:	82.7 km (51.4 mi)
Horiz. Field-of-View:	16°
Vertical Field-of-View	0.09°

Meteorological Data

Temperature:	60°F
Humidity:	58%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Recreation
Resource Type:	National Recreation Area Municipal Park/Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Recreation oriented visitors

Figure E-1a

KOP 01: Jacob Riis Park - Gateway National Recreation Area
Borough of Queens, New York City, NY

EXISTING VIEW

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

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Photographic Simulations

Photo Location Map

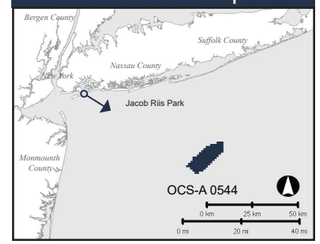


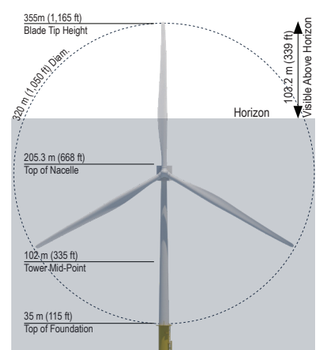
Photo Data

Date/Time:	23-May-2023 / 17:20
Light Conditions:	Front Light
Camera:	Canon 6D Mark II
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Photo Location

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Longitude:	73° 52' 08.87" W
Elevation (+/-):	4.9 m (16 ft)
Nearest Turbine:	69.3 km (43.0 mi)
Farthest Turbine:	82.7 km (51.4 mi)
Horiz. Field-of-View:	16°
Vertical Field-of-View:	0.29°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-1b

KOP 01: Jacob Riis Park - Gateway National Recreation Area
Borough of Queens, New York City, NY

0 1 inch 2 inches

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SIMULATED VIEW

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VINEYARD MID-ATLANTIC
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Photographic Simulations

Photo Location Map

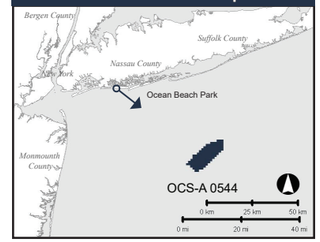


Photo Data

Date/Time:	03-Nov-2022 / 12:40
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 34' 58.36" N
Longitude:	73° 38' 58.54" W
Elevation (+/-):	6.4 m (21 ft)
Nearest Turbine:	56.3 km (35 mi)
Farthest Turbine:	67.0 km (41.6 mi)
Horiz. Field-of-View:	21°
Vertical Field-of-View	0.21°

Meteorological Data

Temperature:	65°F
Humidity:	56%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Urban
Resource Type:	Public Boardwalk Ocean Beach
Use Type:	Passive Recreation/Relaxation
Viewer Types:	Local residentis/workers Recreation oriented visitors

Figure E-2a

KOP 02: Ocean Beach Park/Long Beach Boardwalk

City of Long Beach, Nassau County, NY

0 1 inch 2 inches

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EXISTING VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

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VINEYARD MID-ATLANTIC

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Photographic Simulations

Photo Location Map

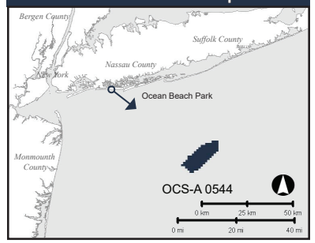


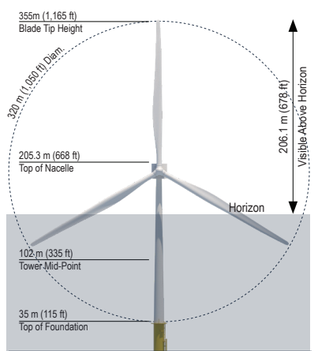
Photo Data

Date/Time:	03-Nov-2022 / 12:40
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 34' 58.36" N
Longitude:	73° 38' 58.54" W
Elevation (+/-):	6.4 m (21 ft)
Nearest Turbine:	56.3 km (35 mi)
Farthest Turbine:	67.0 km (41.6 mi)
Horiz. Field-of-View:	21°
Vertical Field-of-View:	0.21°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-2b

KOP 02: Ocean Beach Park/Long Beach Boardwalk
City of Long Beach, Nassau County, NY

SIMULATED VIEW

0 1 inch 2 inches

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VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

Photographic Simulations

Photo Location Map

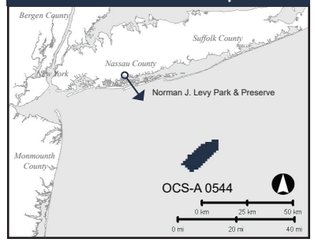


Photo Data

Date/Time:	24-May-2023 / 15:55
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 38' 47.12" N
Longitude:	73° 33' 46.22" W
Elevation (+/-):	35.7 m (117 ft)
Nearest Turbine:	56.2 km (35.1 mi)
Farthest Turbine:	65.0 km (40.4 mi)
Horiz. Field-of-View:	22°
Vertical Field-of-View	0.28°

Meteorological Data

Temperature:	66°F
Humidity:	43%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Bayside Natural Upland
Resource Type:	County Park, Scenic Overlook Conservation Area
Use Type:	Passive Recreation/Relaxation Scenic enjoyment
Viewer Types:	Recreation oriented visitors Scenery oriented visitors

Figure E-3a

KOP 04: Norman J. Levy Park & Preserve
Town of Hempstead, Nassau County, NY

EXISTING VIEW

0 1 inch 2 inches

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VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

Photographic Simulations

Photo Location Map

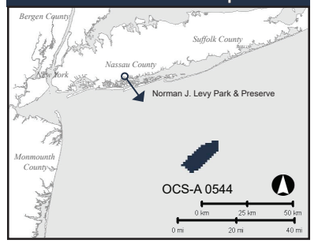


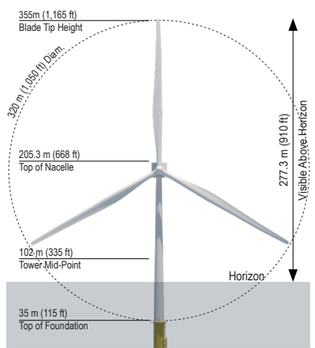
Photo Data

Date/Time:	24-May-2023 / 15:55
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 38' 47.12" N
Longitude:	73° 33' 46.22" W
Elevation (+/-):	35.7 m (117 ft)
Nearest Turbine:	56.2 km (35.1 mi)
Farthest Turbine:	65.0 km (40.4 mi)
Horiz. Field-of-View:	22°
Vertical Field-of-View:	0.28°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-3b

KOP 04: Norman J. Levy Park & Preserve

Town of Hempstead, Nassau County, NY

0 1 inch 2 inches

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SIMULATED VIEW

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VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

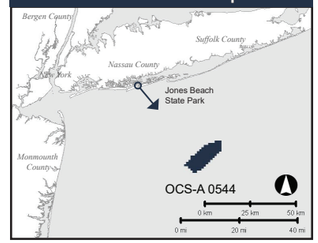


Photo Data

Date/Time:	23-May-2023 / 18:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 35' 45.52" N
Longitude:	73° 29' 43.01" W
Elevation (+/-):	5.2 m (17 ft)
Nearest Turbine:	48.8 km (30.3 mi)
Farthest Turbine:	57.5 km (35.7 mi)
Horiz. Field-of-View:	25°
Vertical Field-of-View	0.29°

Meteorological Data

Temperature:	59°F
Humidity:	48%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Recreation
Resource Type:	State Park Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Recreation oriented visitors Scenery oriented visitors

Figure E-4a

KOP 05: Jones Beach State Park (Field 6)
Town of Hempstead, Nassau County, NY

0 1 inch 2 inches

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VINEYARD MID-ATLANTIC
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Photographic Simulations

Photo Location Map

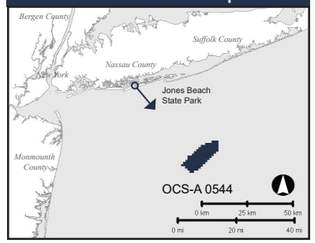


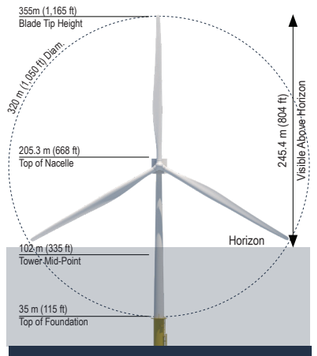
Photo Data

Date/Time:	23-May-2023 / 18:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 35' 45.52" N
Longitude:	73° 29' 43.01" W
Elevation (+/-):	5.2 m (17 ft)
Nearest Turbine:	48.8 km (30.3 mi)
Farthest Turbine:	57.5 km (35.7 mi)
Horiz. Field-of-View:	25°
Vertical Field-of-View:	0.29°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-4b

KOP 05: Jones Beach State Park (Field 6)
Town of Hempstead, Nassau County, NY

SIMULATED VIEW



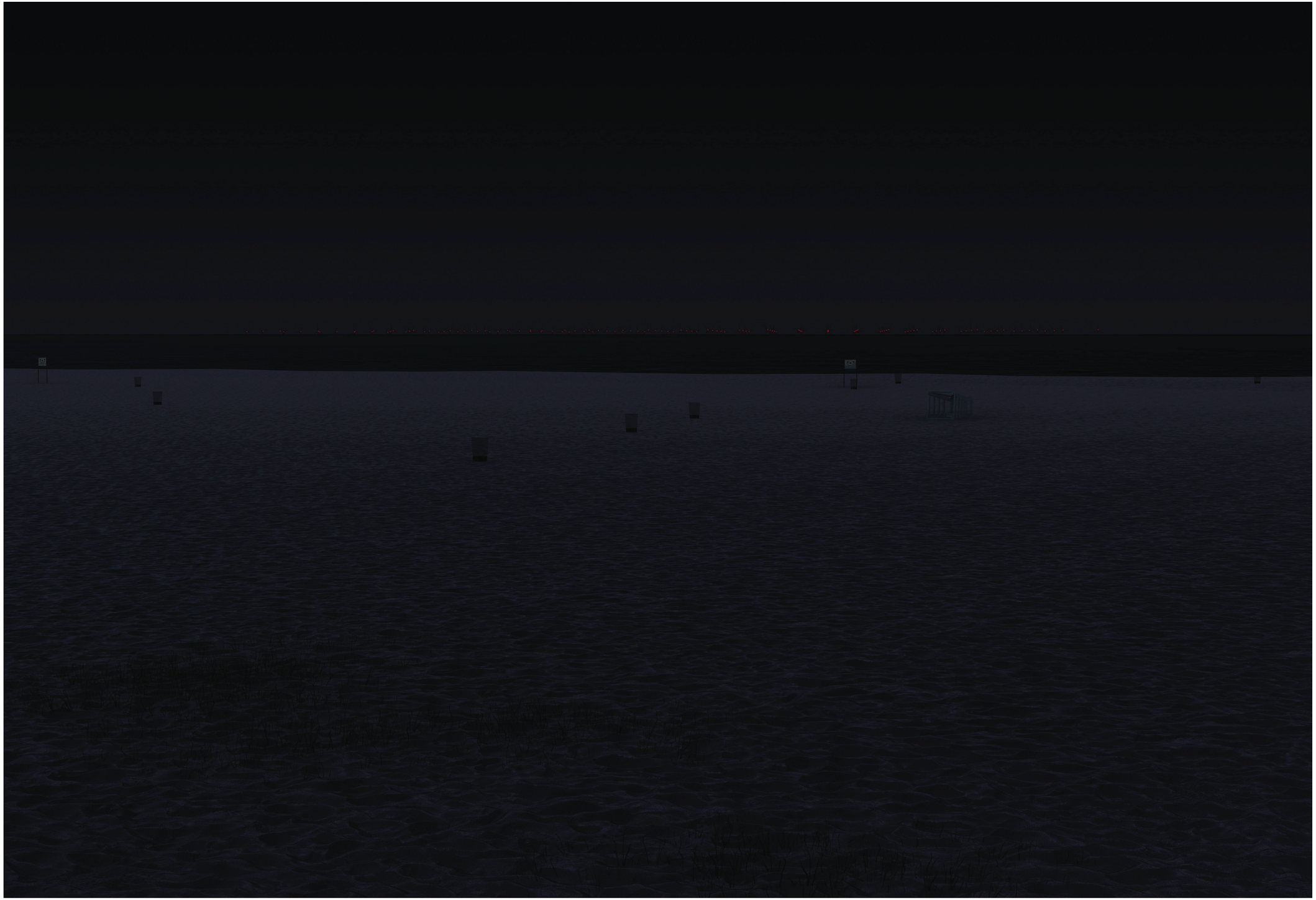
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VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

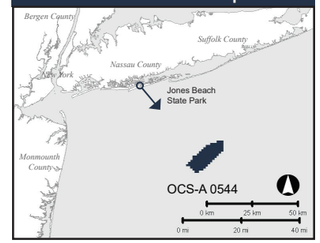


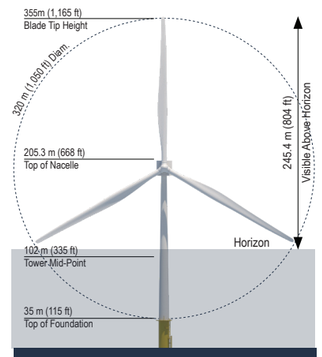
Photo Data

Date/Time:	N/A
Light Conditions:	Night
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 35' 45.52" N
Longitude:	73° 29' 43.01" W
Elevation (+/-):	5.2 m (17 ft)
Nearest Turbine:	48.8 km (30.3 mi)
Farthest Turbine:	57.5 km (35.7 mi)
Horiz. Field-of-View:	25°
Vertical Field-of-View:	0.29°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-4c

KOP 05: Jones Beach State Park (Field 6)
Town of Hempstead, Nassau County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW - NIGHTTIME CONDITION

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

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VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

Photographic Simulations

Photo Location Map

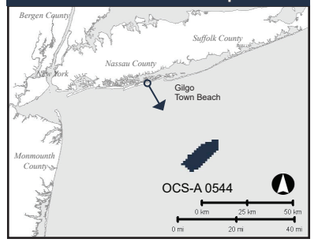


Photo Data

Date/Time:	24-May-2023 / 8:15
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 37' 04.72" N
Longitude:	73° 23' 41.67" W
Elevation (+/-):	7.6 m (25 ft)
Nearest Turbine:	45.4 km (28.2 mi)
Farthest Turbine:	55.3 km (34.3 mi)
Horiz. Field-of-View:	27°
Vertical Field-of-View	0.34°

Meteorological Data

Temperature:	56°F
Humidity:	64%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Residential/Commercial
Resource Type:	Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Recreation oriented visitors Scenery oriented visitors

Figure E-5a

KOP 06: Gilgo Town Beach
Town of Babylon, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

EXISTING VIEW

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When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

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VINEYARD MID-ATLANTIC

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Photographic Simulations

Photo Location Map

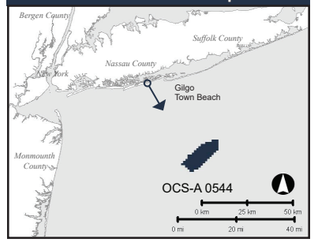


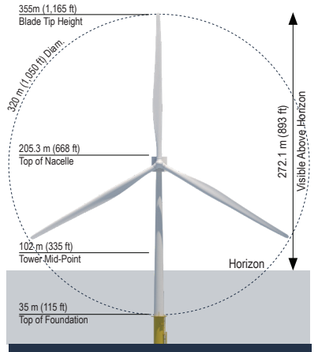
Photo Data

Date/Time:	24-May-2023 / 8:15
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 37' 04.72" N
Longitude:	73° 23' 41.67" W
Elevation (+/-):	7.6 m (25 ft)
Nearest Turbine:	45.4 km (28.2 mi)
Farthest Turbine:	55.3 km (34.3 mi)
Horiz. Field-of-View:	27°
Vertical Field-of-View:	0.34°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-5b

KOP 06: Gilgo Town Beach
Town of Babylon, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

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VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

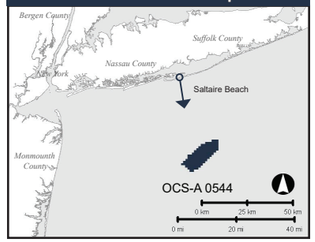


Photo Data

Date/Time:	24-May-2023 / 9:15
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 37' 58.88" N
Longitude:	73° 12' 12.65" W
Elevation (+/-):	4.0 m (13 ft)
Nearest Turbine:	38.8 km (24.1 mi)
Farthest Turbine:	52.2 km (32.4 mi)
Horiz. Field-of-View:	30°
Vertical Field-of-View	0.43°

Meteorological Data

Temperature:	56°F
Humidity:	53%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Residential/Commercial
Resource Type:	National Seashore Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Seasonal Residents/Vacationers Recreation oriented visitors

Figure E-6a

KOP 08: Saltaire Beach
Fire Island, Town of Islip, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

EXISTING VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye. Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

Photographic Simulations

Photo Location Map

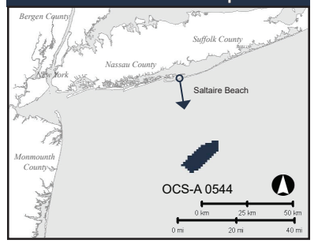


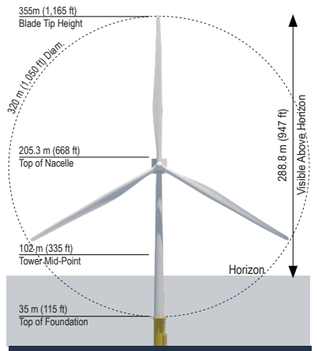
Photo Data

Date/Time:	24-May-2023 / 9:15
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 37' 58.88" N
Longitude:	73° 12' 12.65" W
Elevation (+/-):	4.0 m (13 ft)
Nearest Turbine:	38.8 km (24.1 mi)
Farthest Turbine:	52.2 km (32.4 mi)
Horiz. Field-of-View:	30°
Vertical Field-of-View:	0.43°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-6b

KOP 08: Saltaire Beach
Fire Island, Town of Islip, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

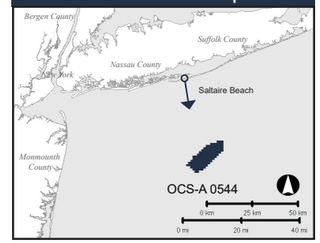


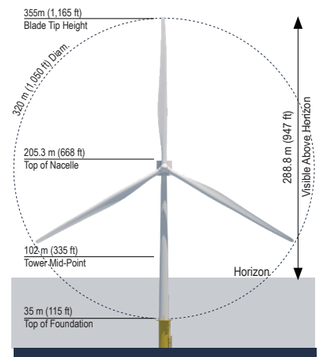
Photo Data

Date/Time:	N/A
Light Conditions:	Night
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 37' 58.88" N
Longitude:	73° 12' 12.65" W
Elevation (+/-):	4.0 m (13 ft)
Nearest Turbine:	38.8 km (24.1 mi)
Farthest Turbine:	52.2 km (32.4 mi)
Horiz. Field-of-View:	30°
Vertical Field-of-View:	0.43°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-6c

KOP 08: Saltaire Beach
Fire Island, Town of Islip, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW - NIGHTTIME CONDITION

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

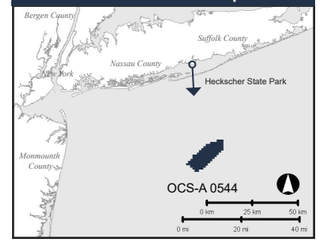


Photo Data

Date/Time:	24-May-2023 / 14:35
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 41' 55.38" N
Longitude:	73° 09' 46.57" W
Elevation (+/-):	3.0 m (10 ft)
Nearest Turbine:	44.2 km (27.5 mi)
Farthest Turbine:	59.9 km (37.2 mi)
Horiz. Field-of-View:	24°
Vertical Field-of-View	0.33°

Meteorological Data

Temperature:	68°F
Humidity:	43%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Bayside Recreation
Resource Type:	State Park Bay Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Recreation oriented visitors Scenery oriented visitors

Figure E-7a

KOP 09: Heckscher State Park
Town of Islip, Suffolk County, NY

EXISTING VIEW

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

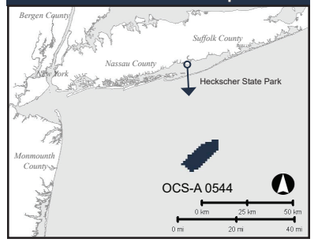


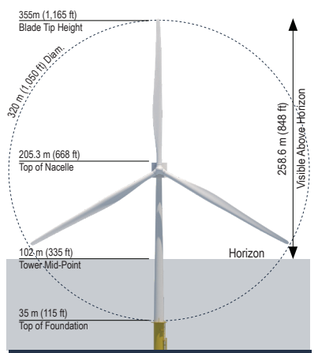
Photo Data

Date/Time:	24-May-2023 / 14:35
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 41' 55.38" N
Longitude:	73° 09' 46.57" W
Elevation (+/-):	3.0 m (10 ft)
Nearest Turbine:	44.2 km (27.5 mi)
Farthest Turbine:	59.9 km (37.2 mi)
Horiz. Field-of-View:	24°
Vertical Field-of-View:	0.33

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-7b

KOP 09: Heckscher State Park
Town of Islip, Suffolk County, NY

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

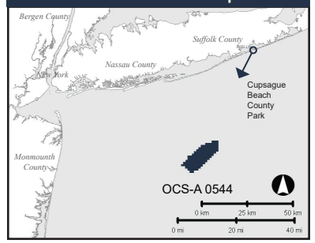


Photo Data

Date/Time:	24-May-2023 / 12:00
Light Conditions:	Back Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 46' 16.24" N
Longitude:	72° 43' 50.16" W
Elevation (+/-):	7.3 m (24 ft)
Nearest Turbine:	54.7 km (34.0 mi)
Farthest Turbine:	76.0 km (47.3 mi)
Horiz. Field-of-View:	13°
Vertical Field-of-View	0.23°

Meteorological Data

Temperature:	67°F
Humidity:	45%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Beach
Resource Type:	Municipal Park Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relaxation
Viewer Types:	Recreation oriented visitors Scenery oriented visitors

Figure E-8a

KOP 12: Cupsogue Beach County Park
Village of Westhampton Beach, Suffolk County, New York

EXISTING VIEW

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

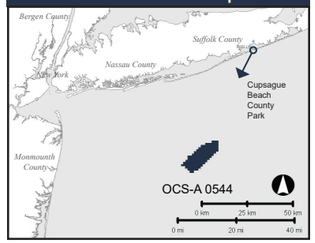


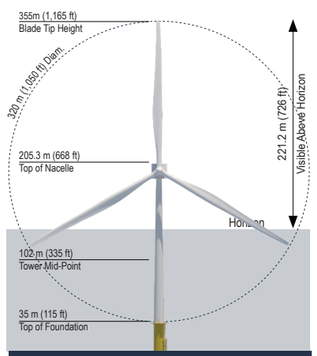
Photo Data

Date/Time:	24-May-2023 / 12:00
Light Conditions:	Back Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 46' 16.24" N
Longitude:	72° 43' 50.16" W
Elevation (+/-):	7.3 m (24 ft)
Nearest Turbine:	54.7 km (34.0 mi)
Farthest Turbine:	76.0 km (47.3 mi)
Horiz. Field-of-View:	13°
Vertical Field-of-View:	0.23°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-8b

KOP 12: Cupsogue Beach County Park
Village of Westhampton Beach, Suffolk County, New York

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper. When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

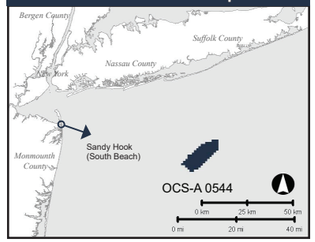


Photo Data

Date/Time:	24-May-2023 / 14:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 24' 21.47" N
Longitude:	73° 58' 40.06" W
Elevation (+/-):	7.3 m (24 ft)
Nearest Turbine:	69.4 km (43.1mi)
Farthest Turbine:	86.5 km (53.8 mi)
Horiz. Field-of-View:	14°
Vertical Field-of-View	0.10°

Meteorological Data

Temperature:	61°F
Humidity:	62%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Beach
Resource Type:	National Recreation Area Ocean Beach
Use Type:	Active/Passive Recreation Scenic/Cultural Tourism
Viewer Types:	Recreation oriented visitors Scenery/heritage oriented visitors

Figure E-9a

KOP 15: Sandy Hook National Recreation Area (South Beach)
Township of Middletown, Monmouth County, NJ

EXISTING VIEW

0 1 inch 2 inches

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Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

Photographic Simulations

Photo Location Map

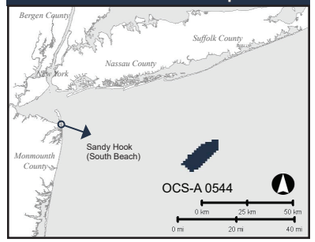


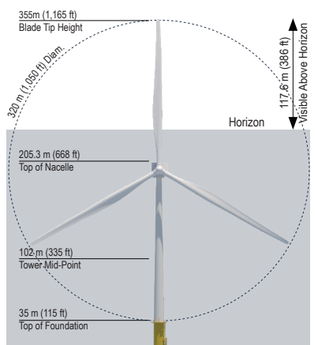
Photo Data

Date/Time:	24-May-2023 / 14:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 24' 21.47" N
Longitude:	73° 58' 40.06" W
Elevation (+/-):	7.3 m (24 ft)
Nearest Turbine:	69.4 km (43.1mi)
Farthest Turbine:	86.5 km (53.8 mi)
Horiz. Field-of-View:	14°
Vertical Field-of-View:	0.10°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-9b

KOP 15: Sandy Hook National Recreation Area (South Beach)
Township of Middletown, Monmouth County, NJ

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

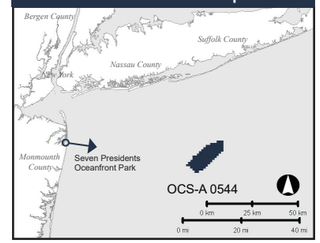


Photo Data

Date/Time:	23-May-2023 / 13:40
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 19' 00.74" N
Longitude:	73° 58' 35.31" W
Elevation (+/-):	5.2 m (17 ft)
Nearest Turbine:	66.7 km (41.5 mi)
Farthest Turbine:	85.2 km (53.0 mi)
Horiz. Field-of-View:	14°
Vertical Field-of-View	0.11°

Meteorological Data

Temperature:	62°F
Humidity:	60%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Recreation
Resource Type:	Municipal Park Ocean Beach
Use Type:	Active Recreation Passive Recreation/Relazation
Viewer Types:	Recreation oriented visitors Local residents/workers

Figure E-10a

KOP 17: Seven Presidents Oceanfront Park

City of Long Branch, Monmouth County, NJ

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

EXISTING VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

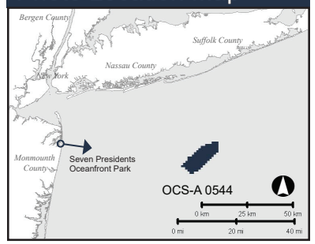


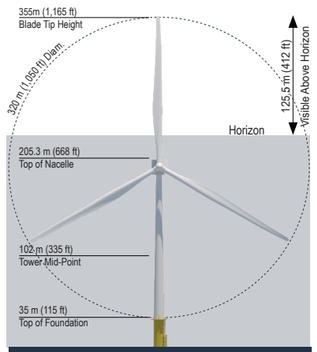
Photo Data

Date/Time:	23-May-2023 / 13:40
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 19' 00.74" N
Longitude:	73° 58' 35.31" W
Elevation (+/-):	5.2 m (17 ft)
Nearest Turbine:	66.7 km (41.5 mi)
Farthest Turbine:	85.2 km (53.0 mi)
Horiz. Field-of-View:	14°
Vertical Field-of-View:	0.10°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-10b

KOP 17: Seven Presidents Oceanfront Park

City of Long Branch, Monmouth County, NJ

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

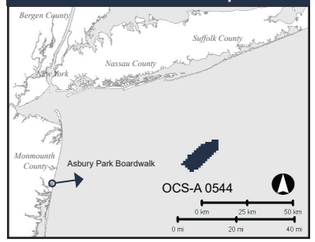


Photo Data

Date/Time:	23-May-2023 / 12:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 13' 08.51" N
Longitude:	74° 00' 00.52" W
Elevation (+/-):	5.8 m (19 ft)
Nearest Turbine:	67.6 km (42.0 mi)
Farthest Turbine:	88.0 km (54.7 mi)
Horiz. Field-of-View:	12°
Vertical Field-of-View	0.10°

Meteorological Data

Temperature:	64°F
Humidity:	56%
Visibility:	>10 mi
Weather Condition:	Fair

Visual Setting

SCA/LCA:	Oceanside Urban
Resource Type:	Public Boardwalk/Arcade Ocean Beach
Use Type:	Family Entertainment Passive Recreation/Relazation
Viewer Types:	Entertainment oriented vistors Vacationers

Figure E-11a

KOP 18: Asbury Park Boardwalk

City of Asbury Park, Monmouth County, NJ

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

EXISTING VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE



Photographic Simulations

Photo Location Map

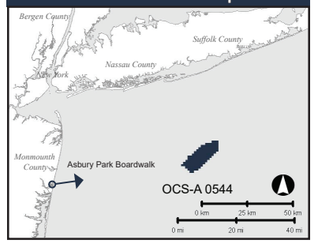


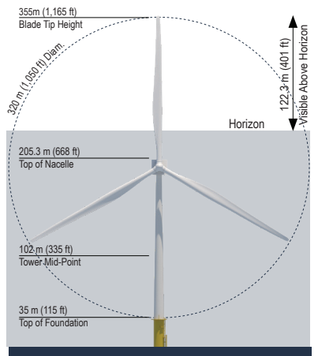
Photo Data

Date/Time:	23-May-2023 / 12:50
Light Conditions:	Side Light
Camera:	Canon 6D Mark II
Focal Length:	50mm (full frame)

Photo Location

Latitude:	40° 13' 08.51" N
Longitude:	74° 00' 00.52" W
Elevation (+/-):	5.8 m (19 ft)
Nearest Turbine:	67.6 km (42.0 mi)
Farthest Turbine:	88.0 km (54.7 mi)
Horiz. Field-of-View:	12°
Vertical Field-of-View:	0.10°

Visible Portion of Closest WTG



Visible portion of the closest WTG is based on a coefficient of refraction of 0.13

Figure E-11b

KOP 18: Asbury Park Boardwalk

City of Asbury Park, Monmouth County, NJ

0 1 inch 2 inches

This scale bar is provided to ensure this image is printed at the intended size.

SIMULATED VIEW

The above photograph is intended to be viewed 22 inches from the reader's eye when printed on 11"x17" paper.

When viewing on a computer monitor, use the zoom function of the display software (e.g., Adobe Acrobat Reader DC) to adjust the size of the image so that the scale bar measures correctly. When scaled correctly the screen image should then be viewed at a distance of approximately 22 inches from the reader's eye.

Viewing on an uncalibrated video monitor can alter intended lightness, color and/or contrast of the image.

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE