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Appendix A: Sunrise Wind Cumulative Visual Simulations

NI10: Madaket Beach, Nantucket, Massachusetts

Visual Simulation: 2023 and 2024 Project Construction with Sunrise Wind added (Sunrise Wind, Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Environmental Data Date Taken: 9/12/2021 **Time**: 10:50 AM Temperature: 76°F Humidity: 74% Visibility: >10 miles Wind Direction: South-Southwest Wind Speed: 17 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 15.4 feet AMSL

three-dimensional (3D) model of the island.

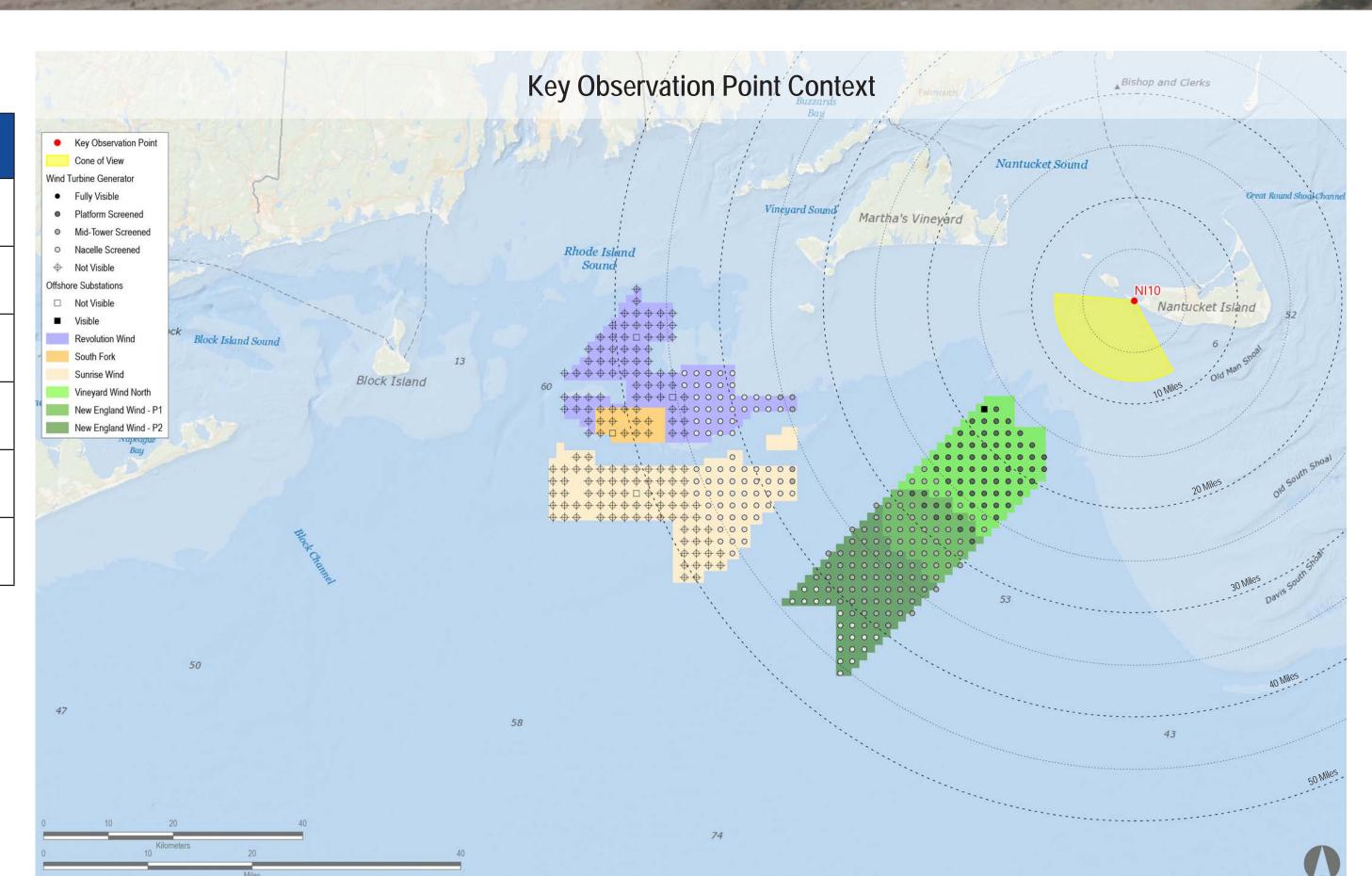
Key Observation Point Information

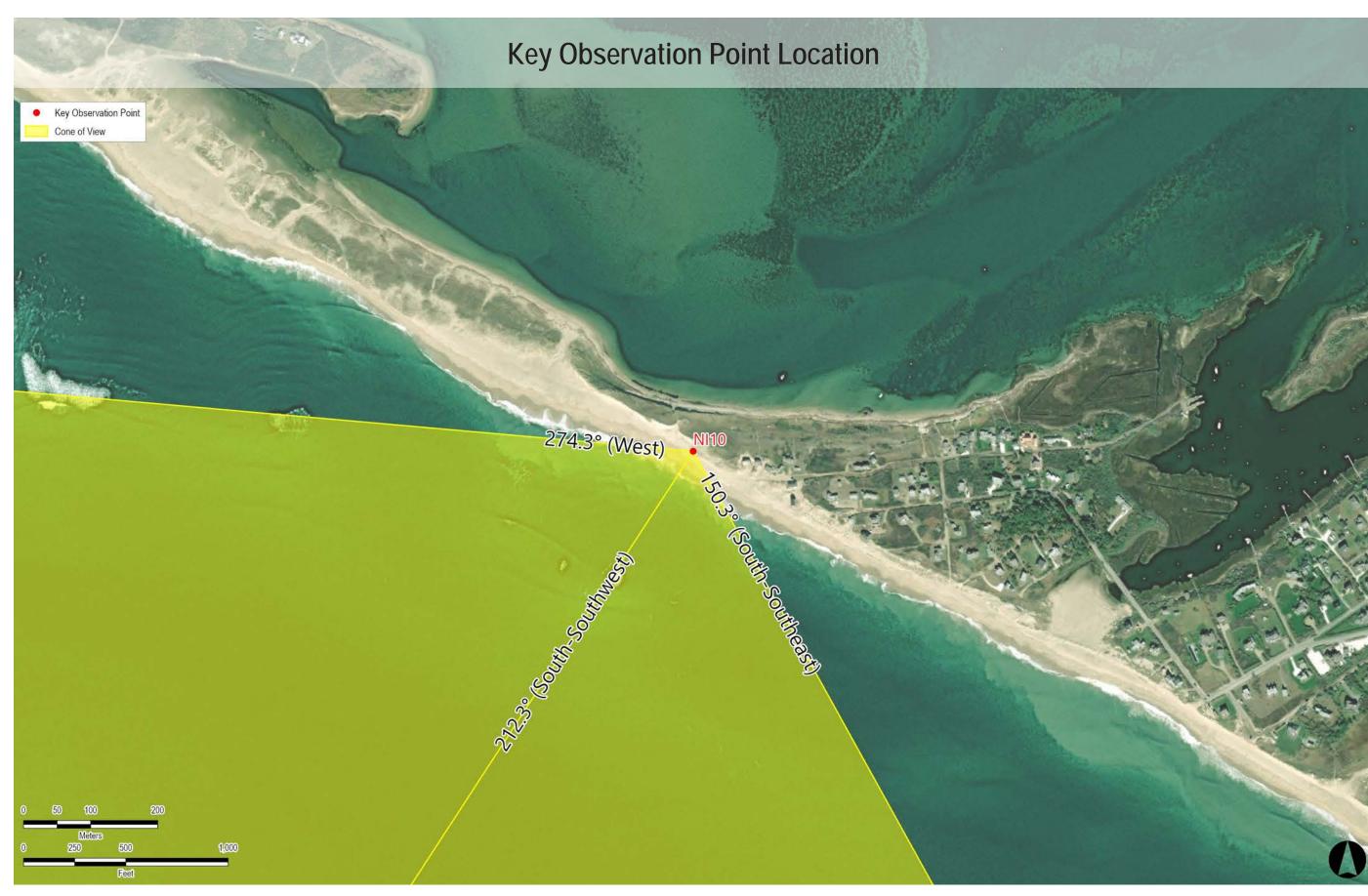
County: Nantucket Town: Nantucket State: Massachusetts Location: Nantucket Latitude, Longitude: 41.27401° N, 70.21141° W Direction of View (Center): South-Southwest (212.3°) Field of View: 124° x 55°

Visual Resources Landscape Similarity Zone: Shoreline Beach User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Madaket Beach, Nantucket National Historic Landmark

- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- 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. Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of
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Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	0	13	NA	NA
Vineyard Wind North	2023	14 MW	69	69	16.8	27.5
Revolution Wind	2023	12 MW	36	102	34.1	43.9
New England Wind Phase 1	2024	16 MW	41	41	26.5	32.7
New England Wind Phase 2	2024	19 MW	79	79	31.6	45.5
Sunrise Wind	2024	15 MW	46	123	36.5	45.9







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Appendix A: Sunrise Wind Cumulative Visual Simulations

NI10: Madaket Beach, Nantucket, Massachusetts

be exactly 1" long

on the printed

Visual Simulation: Full Lease Build-out Including Sunrise Wind

Environmental Data Date Taken: 9/12/2021 **Time**: 10:50 AM Temperature: 76°F Humidity: 74%
Visibility: >10 miles Wind Direction: South-Southwest

Wind Speed: 17 mph Conditions Observed: Fair

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

Key Observation Point Information

County: Nantucket Town: Nantucket State: Massachusetts Location: Nantucket Latitude, Longitude: 41.27401° N, 70.21141° W Direction of View (Center): South-Southwest (212.3°) Field of View: 124° x 55°

Camera Height: 15.4 feet AMSL

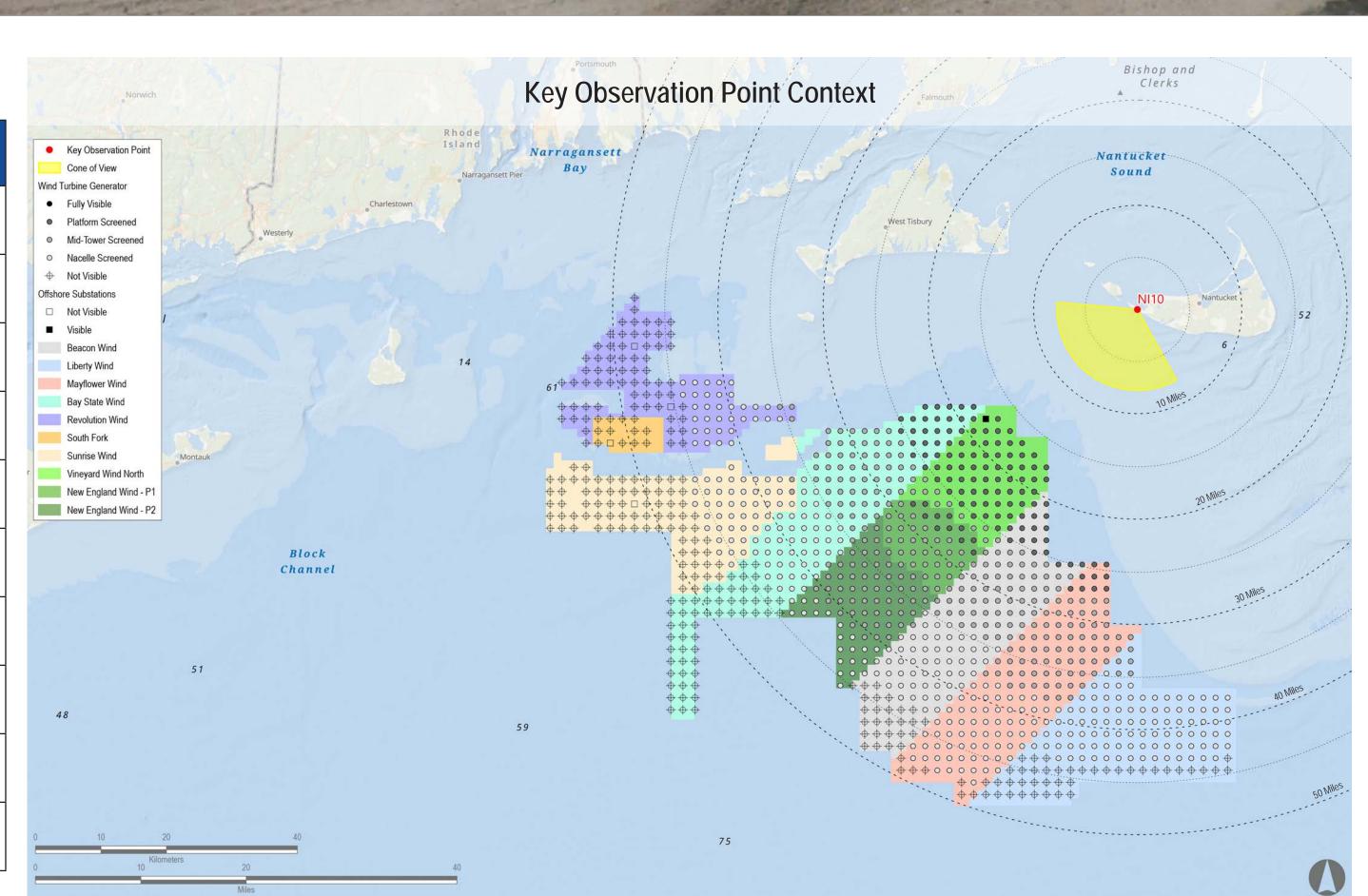
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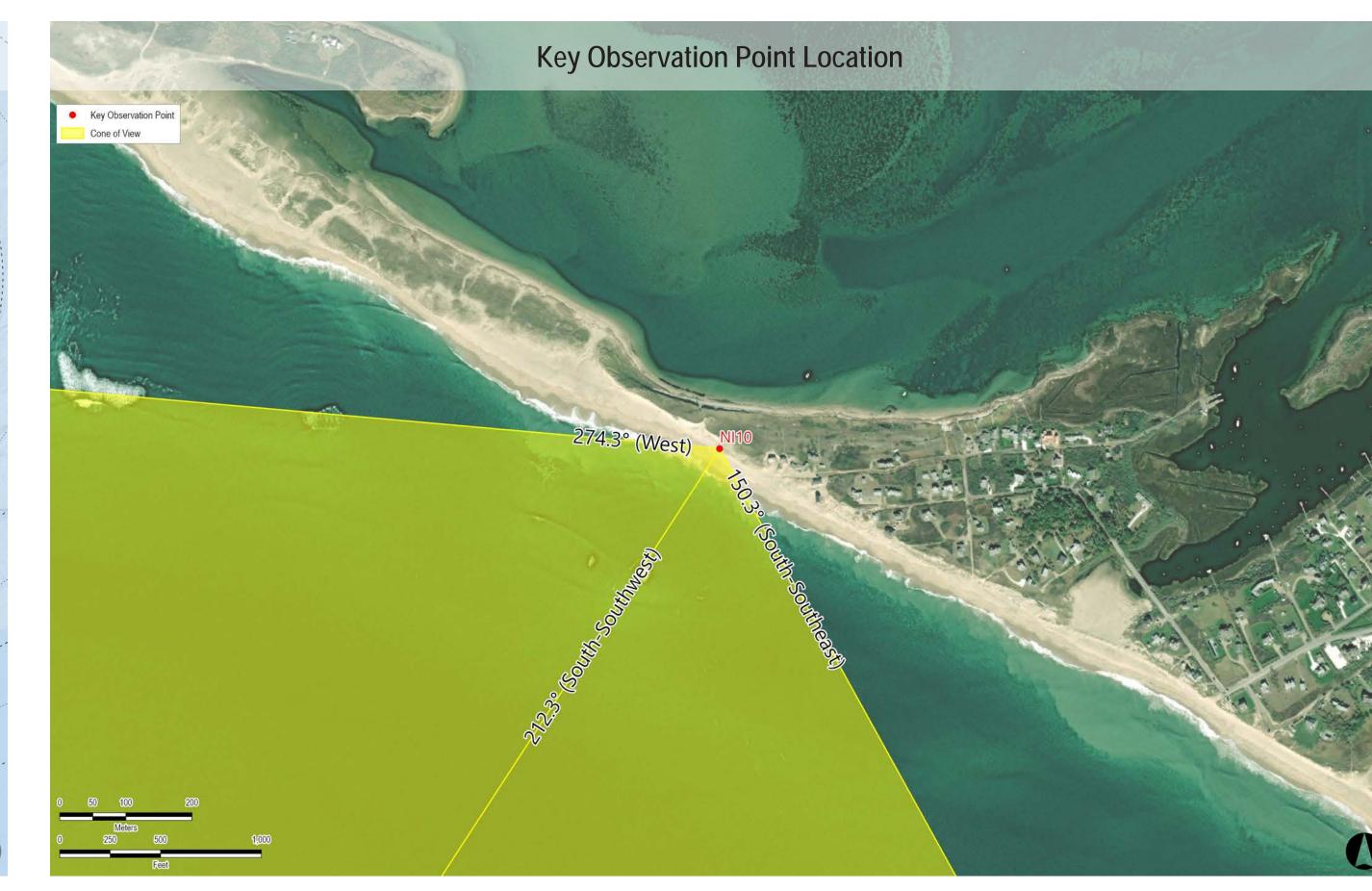
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Revolution Wind	2023	12 MW	36	102	34.1	43.9
New England Wind Phase 1	2024	16 MW	41	41	26.5	32.7
New England Wind Phase 2	2024	19 MW	79	79	31.6	45.5
Sunrise Wind	2024	15 MW	46	123	36.5	45.9
Mayflower Wind	2024	12 MW	142	149	24.4	47.8
Liberty Wind	2025-2030	12 MW	100	139	32.1	43.3
Beacon Wind	2025-2030	12 MW	131	157	20.4	43.2
Bay State Wind	2025-2030	12 MW	130	185	18.1	43.3







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Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 15.4 feet AMSL

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Key Observation Point Information

County: Nantucket Town: Nantucket State: Massachusetts Location: Nantucket Latitude, Longitude: 41.27401° N, 70.21141° W Direction of View (Center): South-Southwest (212.3°) Field of View: 124° x 55°

Camera Information

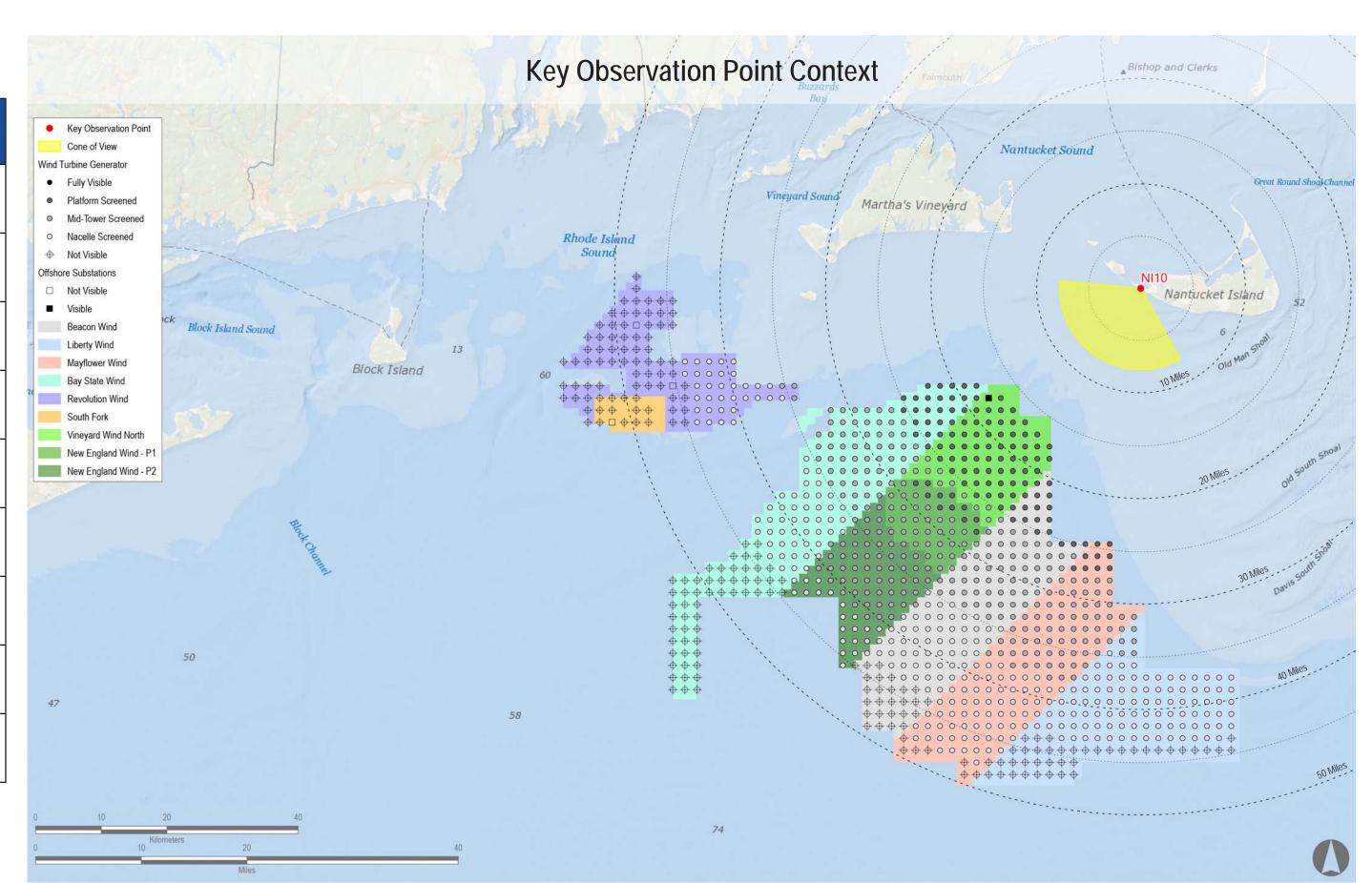
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Liberty Wind	2025-2030	12 MW	100	139	32.1	43.3
Beacon Wind	2025-2030	12 MW	131	157	20.4	43.2
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Appendix A: Sunrise Wind Cumulative Visual Simulations

NI10: Madaket Beach, Nantucket, Massachusetts

Visual Simulation: Sunrise Wind Without Other Foreseeable Future Changes

Environmental Data Date Taken: 9/12/2021 **Time**: 10:50 AM Temperature: 76°F Humidity: 74% Visibility: >10 miles Wind Direction: South-Southwest Wind Speed: 17 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 15.4 feet AMSL

three-dimensional (3D) model of the island.

Key Observation Point Information County: Nantucket Town: Nantucket

State: Massachusetts Location: Nantucket Latitude, Longitude: 41.27401° N, 70.21141° W Direction of View (Center): South-Southwest (212.3°) Field of View: 124° x 55°

Visual Resources Landscape Similarity Zone: Shoreline Beach User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Madaket Beach, Nantucket National Historic Landmark

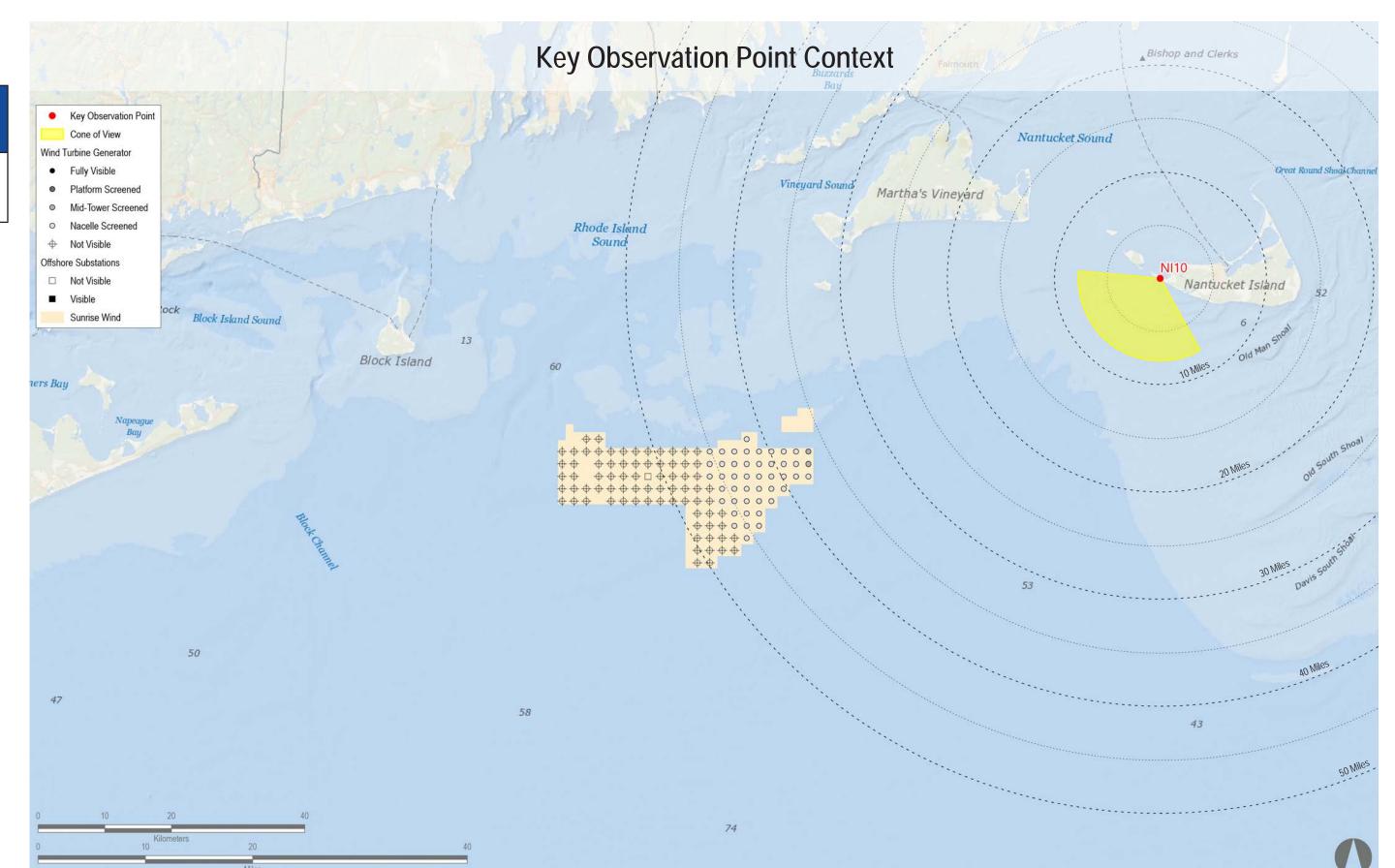
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Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)		
Sunrise Wind	2024	15 MW	46	123	36.5	45.9		







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Appendix A: Sunrise Wind Cumulative Visual Simulations

on the printed

NL01-A: Nomans Land Island NWR, Chilmark, Massachusetts

Existing Conditions

Notes:

Environmental Data Date Simulated*: 12/12/2017 County: Dukes Town: Chilmark Time Simulated: 8:30 AM Temperature: NA State: Massachusetts Humidity: NA Location: Nomans Land Island Visibility: >10 miles Latitude, Longitude: 41.25712° N, 70.83100° W Direction of View (Center): South-Southeast (163.9°) Wind Direction: NA

Conditions Simulated: Partly Cloudy Virtual Camera Information Visual Resources Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Landscape Similarity Zone: Coastal Bluff User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

Field of View: 124° x 55°

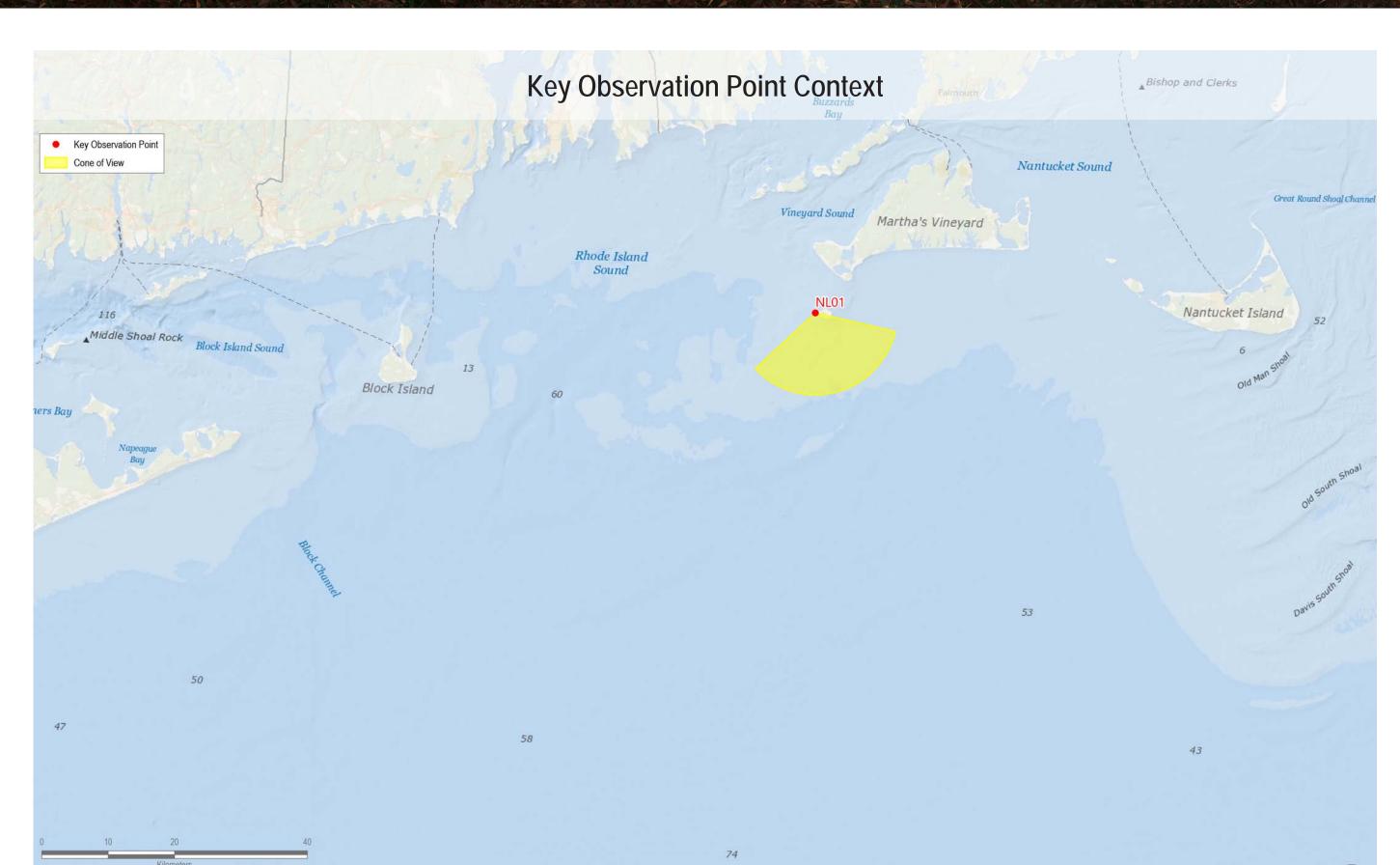
Wind Speed: NA

• Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective. • The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum

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Appendix A: Sunrise Wind Cumulative Visual Simulations

on the printed

NL01-A: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: 2023 and 2024 Project Construction (Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Environmental Data Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles Wind Direction: NA

Key Observation Point Information County: Dukes Town: Chilmark State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W

Direction of View (Center): South-Southeast (163.9°) Wind Speed: NA Field of View: 124° x 55° Conditions Simulated: Partly Cloudy

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

three-dimensional (3D) model of the island.

Visual Resources Landscape Similarity Zone: Coastal Bluff User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

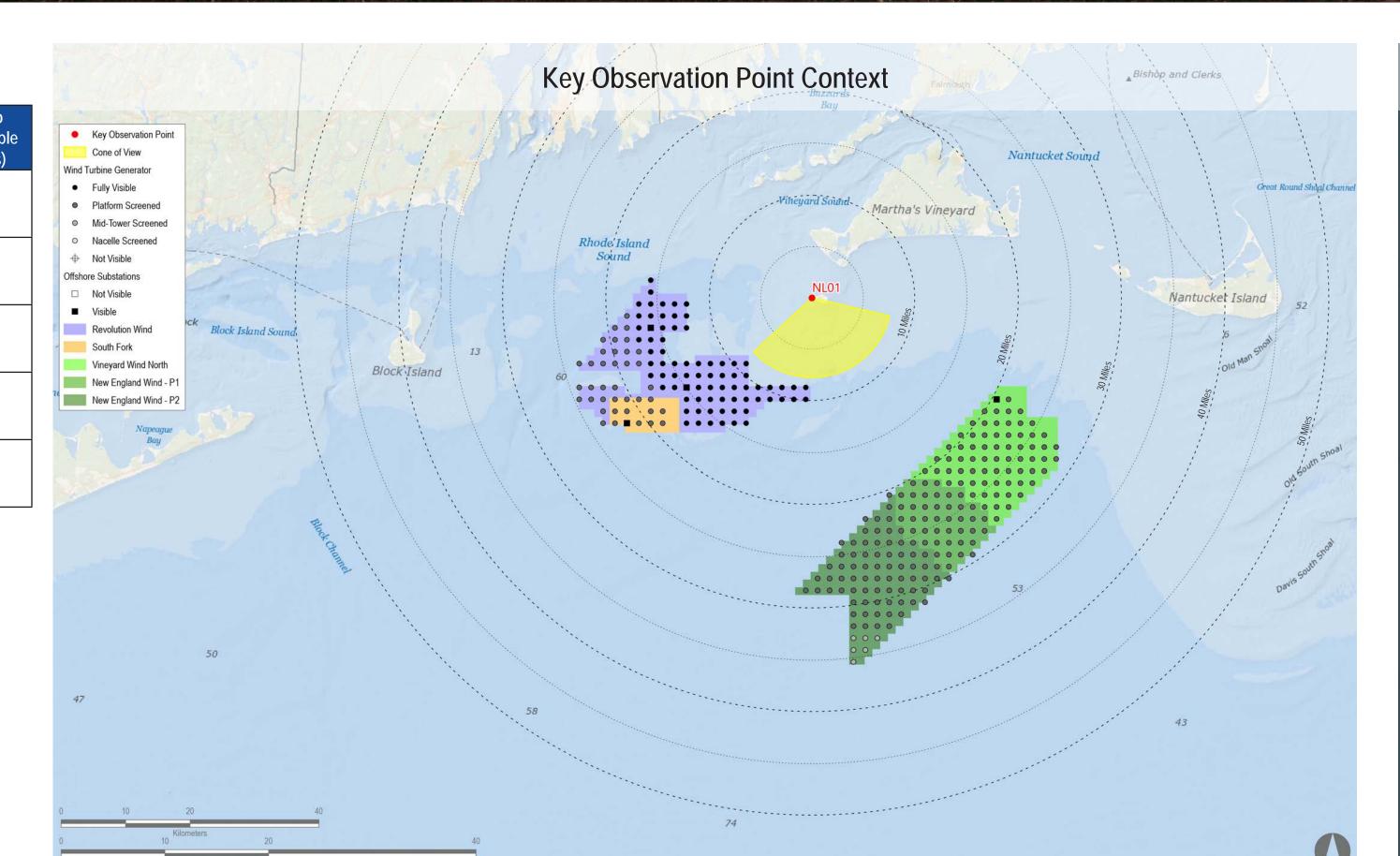
Notes:

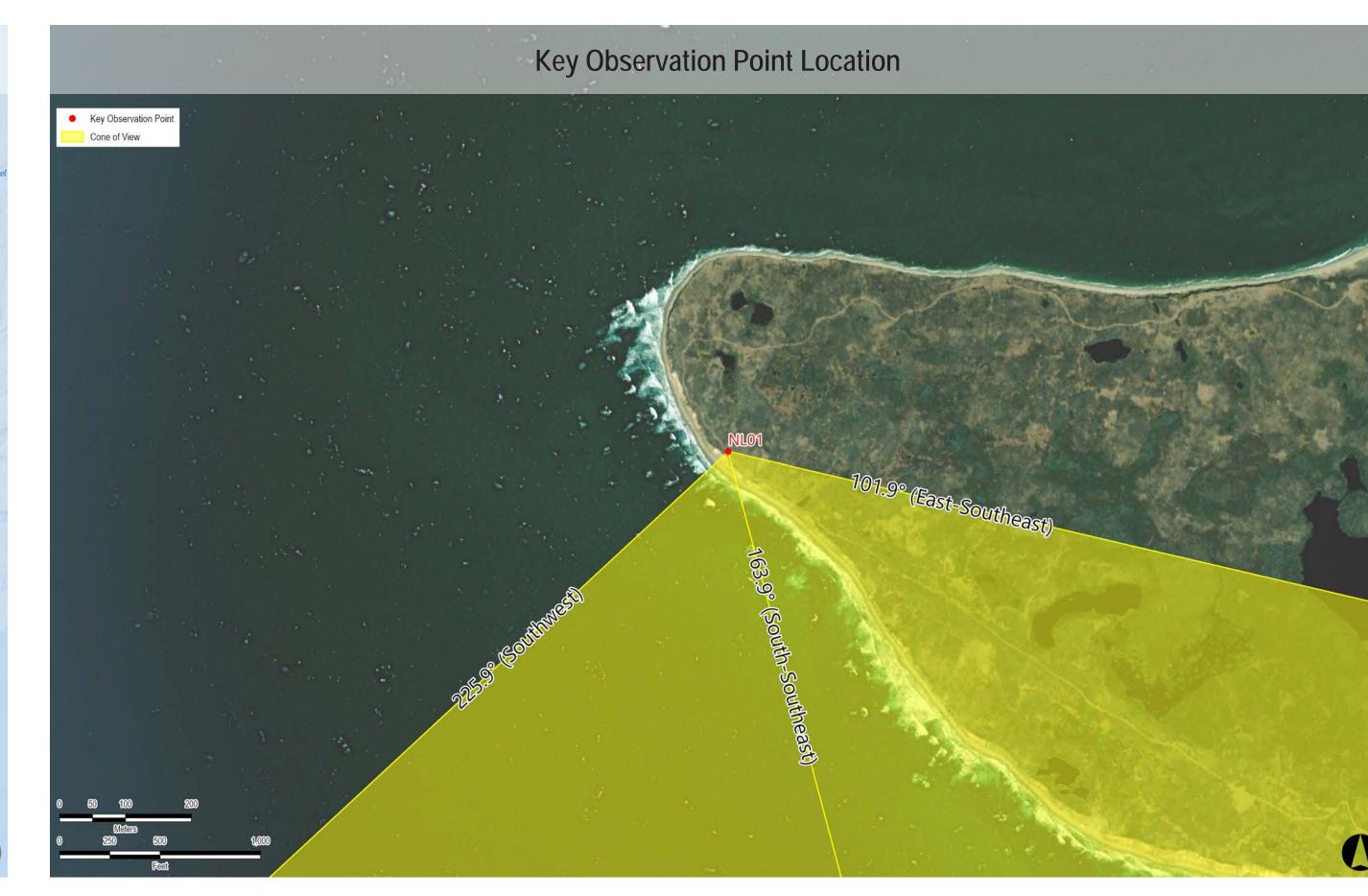
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South Fork Wind Farm	2023	12 MW	13	13	18.1	22.5
Vineyard Wind North	2023	14 MW	69	69	19.5	28.2
Revolution Wind	2023	12 MW	102	102	8.7	24.5
New England Wind Phase 1	2024	16 MW	41	41	20.4	29.2
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on the printed

NL01-A: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: 2023 and 2024 Project Construction with Sunrise Wind added (Sunrise Wind, Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Environmental Data Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles

County: Dukes Town: Chilmark State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W **Direction of View (Center):** South-Southeast (163.9°) Field of View: 124° x 55°

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

three-dimensional (3D) model of the island.

Conditions Simulated: Partly Cloudy

Wind Direction: NA

Wind Speed: NA

Visual Resources

Landscape Similarity Zone: Coastal Bluff User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

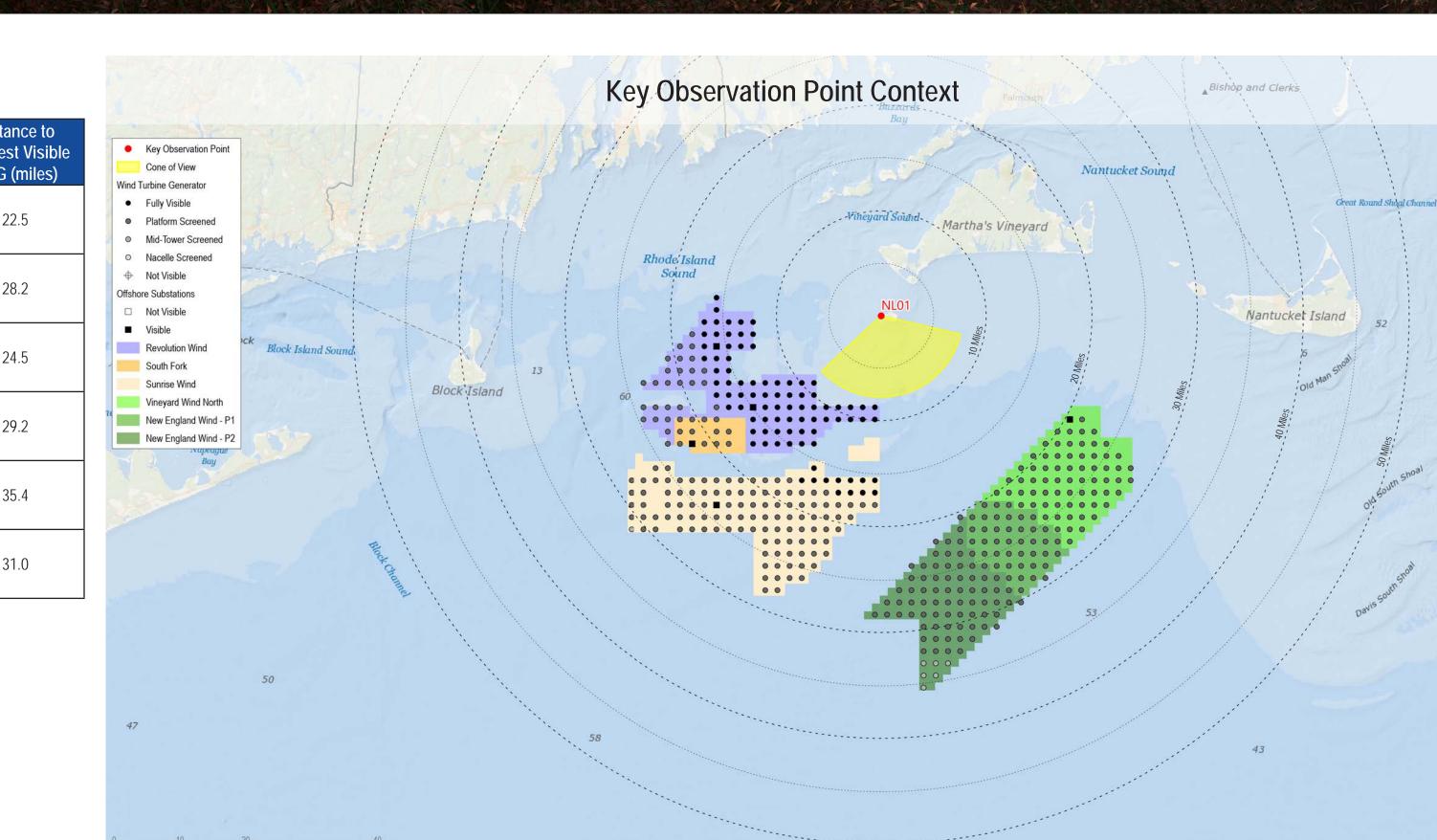
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NL01-A: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: Full Lease Build-out Including Sunrise Wind

Environmental Data Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles

Wind Direction: NA

Wind Speed: NA

County: Dukes Town: Chilmark State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W Direction of View (Center): South-Southeast (163.9°)

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Conditions Simulated: Partly Cloudy

Visual Resources

Field of View: 124° x 55°

Landscape Similarity Zone: Coastal Bluff

User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

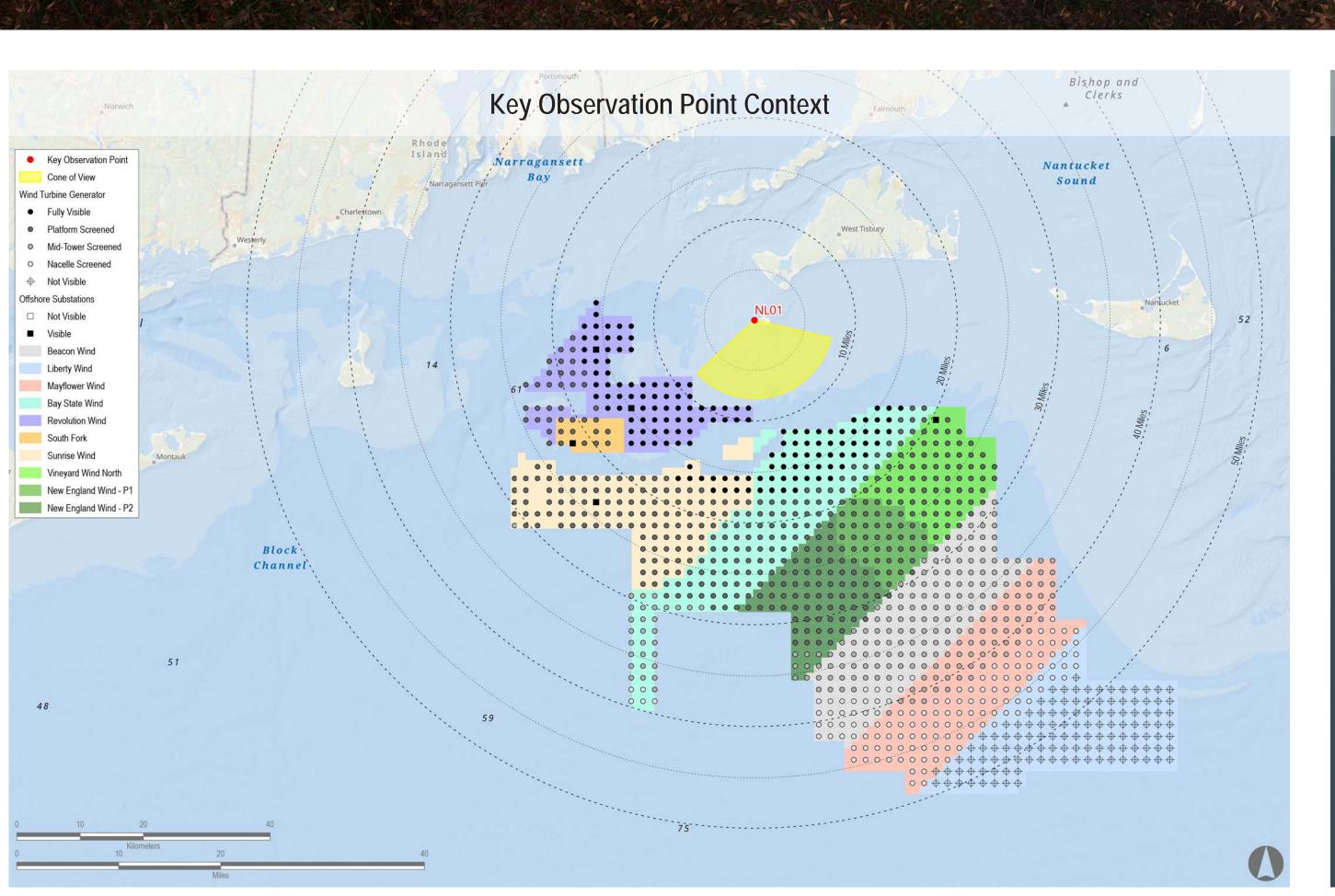
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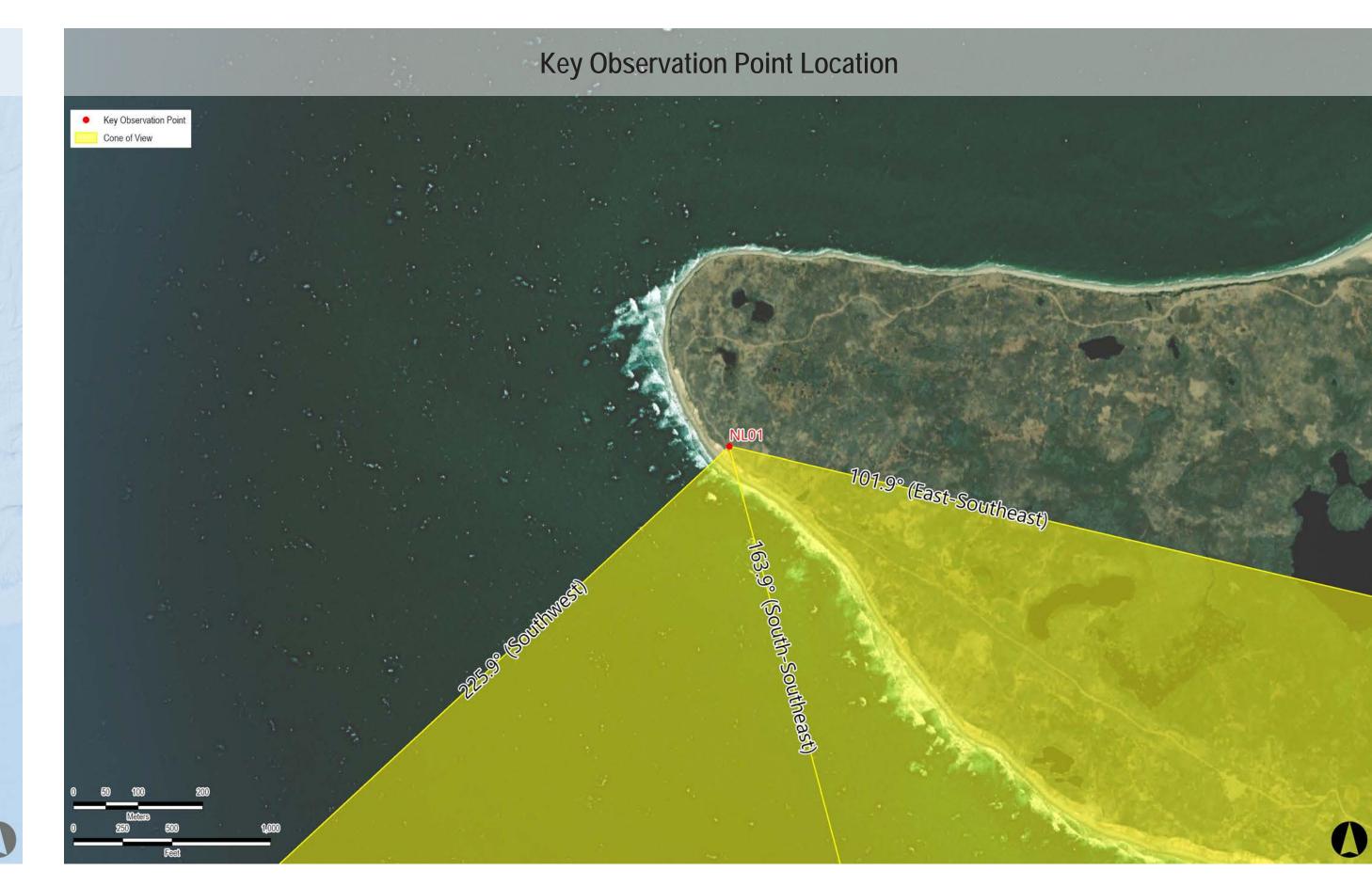
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Reasonably Foreseeable Projects Represented in Visual Simulation

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Mayflower Wind	2024	12 MW	149	149	36.6	48.5
Liberty Wind	2025-2030	12 MW	17	139	43.9	46.5
Beacon Wind	2025-2030	12 MW	157	157	28.5	42.1
Bay State Wind	2025-2030	12 MW	185	185	11.3	39.4





Simulation Size: 64" in width by 29.3" in height. Images

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Visual Simulation: Full Lease Build-out Excluding Sunrise Wind

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Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Conditions Simulated: Partly Cloudy

Visual Resources Landscape Similarity Zone: Coastal Bluff

User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

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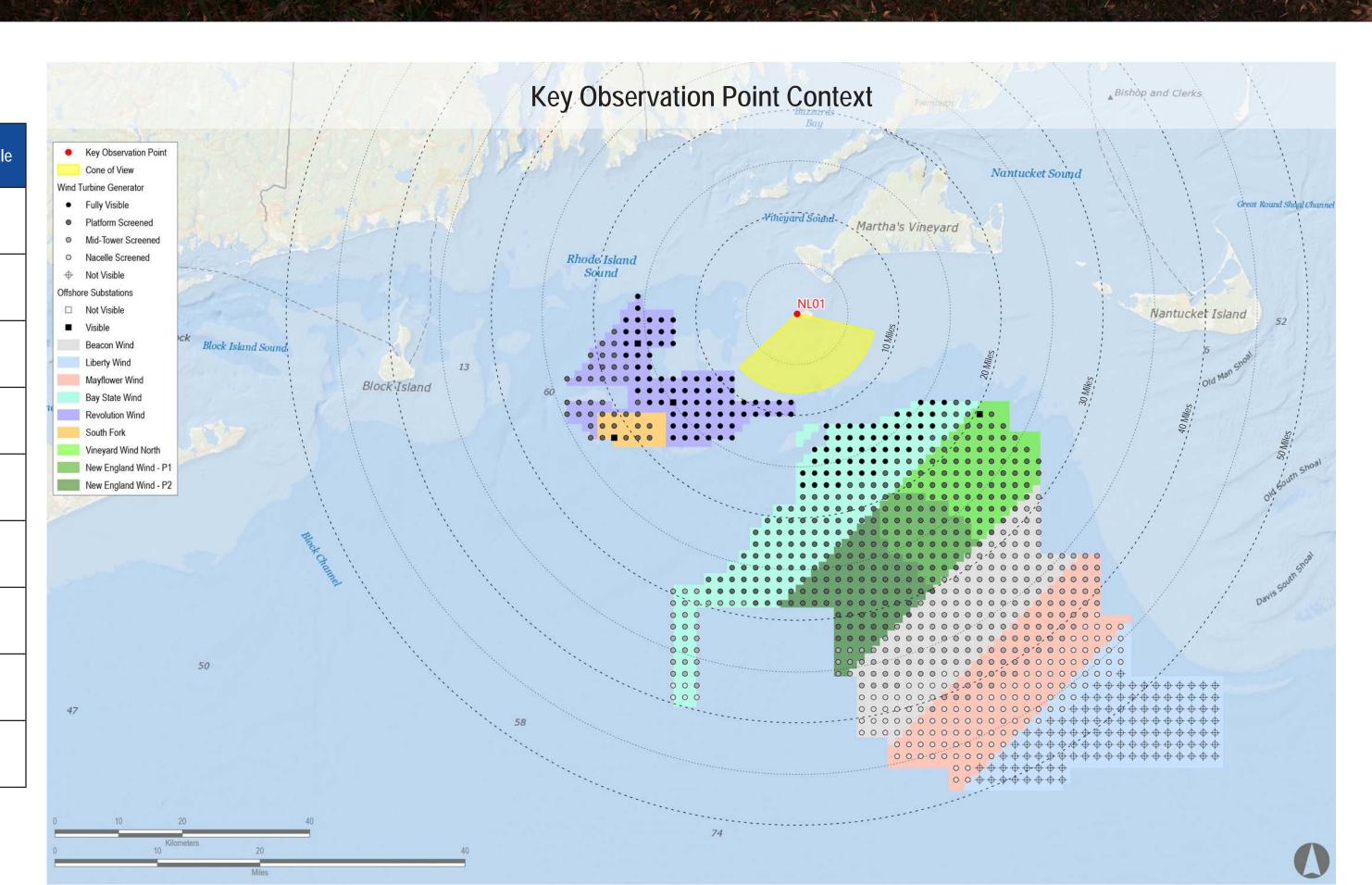
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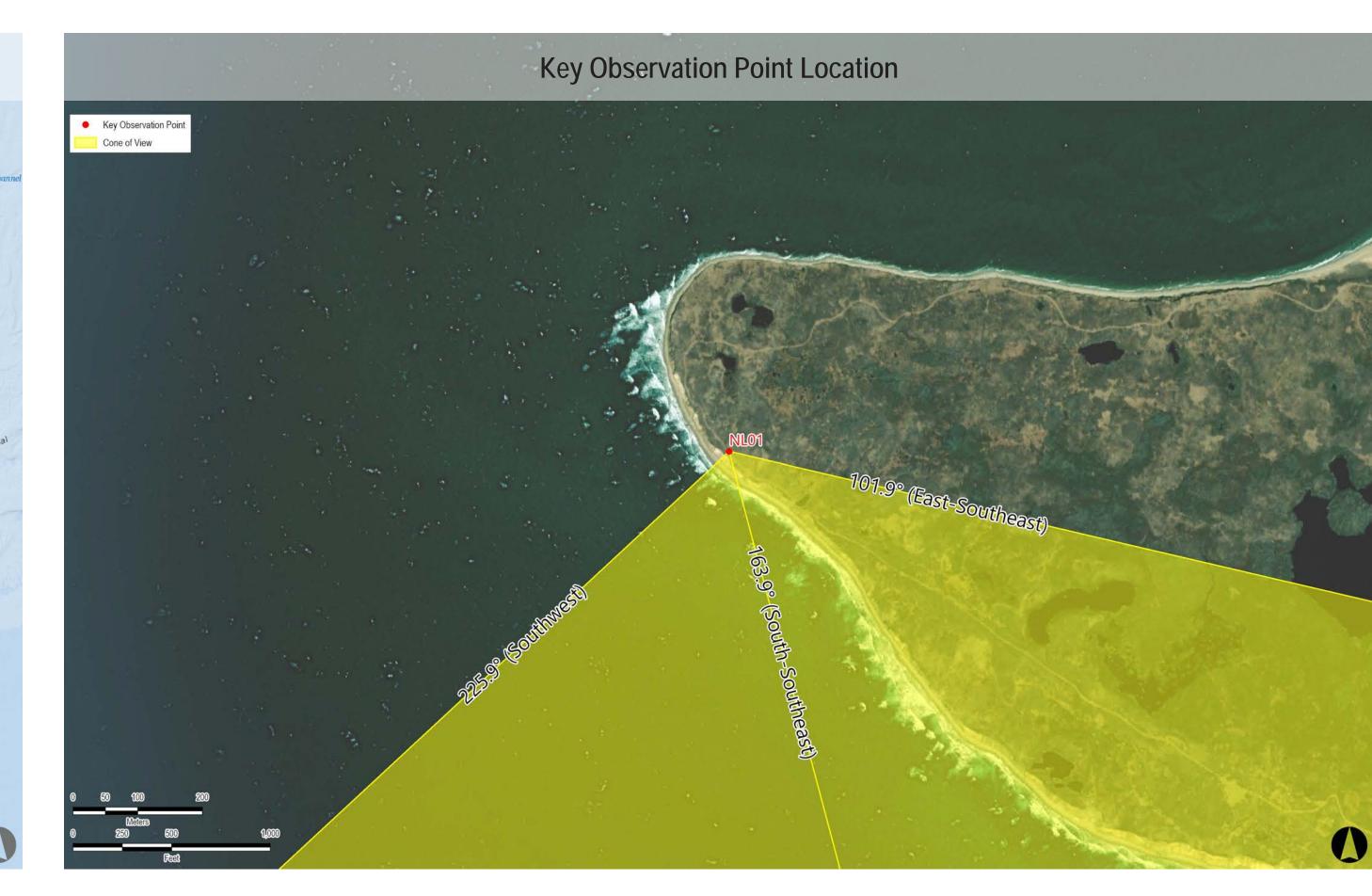
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Bay State Wind	2025-2030	12 MW	185	185	11.3	39.4







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Appendix A: Sunrise Wind Cumulative Visual Simulations

NL01-A: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: Sunrise Wind Without Other Foreseeable Future Changes

Environmental Data Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA

County: Dukes Town: Chilmark State: Massachusetts Humidity: NA Visibility: >10 miles Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W **Direction of View (Center):** South-Southeast (163.9°) Wind Direction: NA Wind Speed: NA Field of View: 124° x 55° Conditions Simulated: Partly Cloudy

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Visual Resources Landscape Similarity Zone: Coastal Bluff User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

Notes:

• Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.

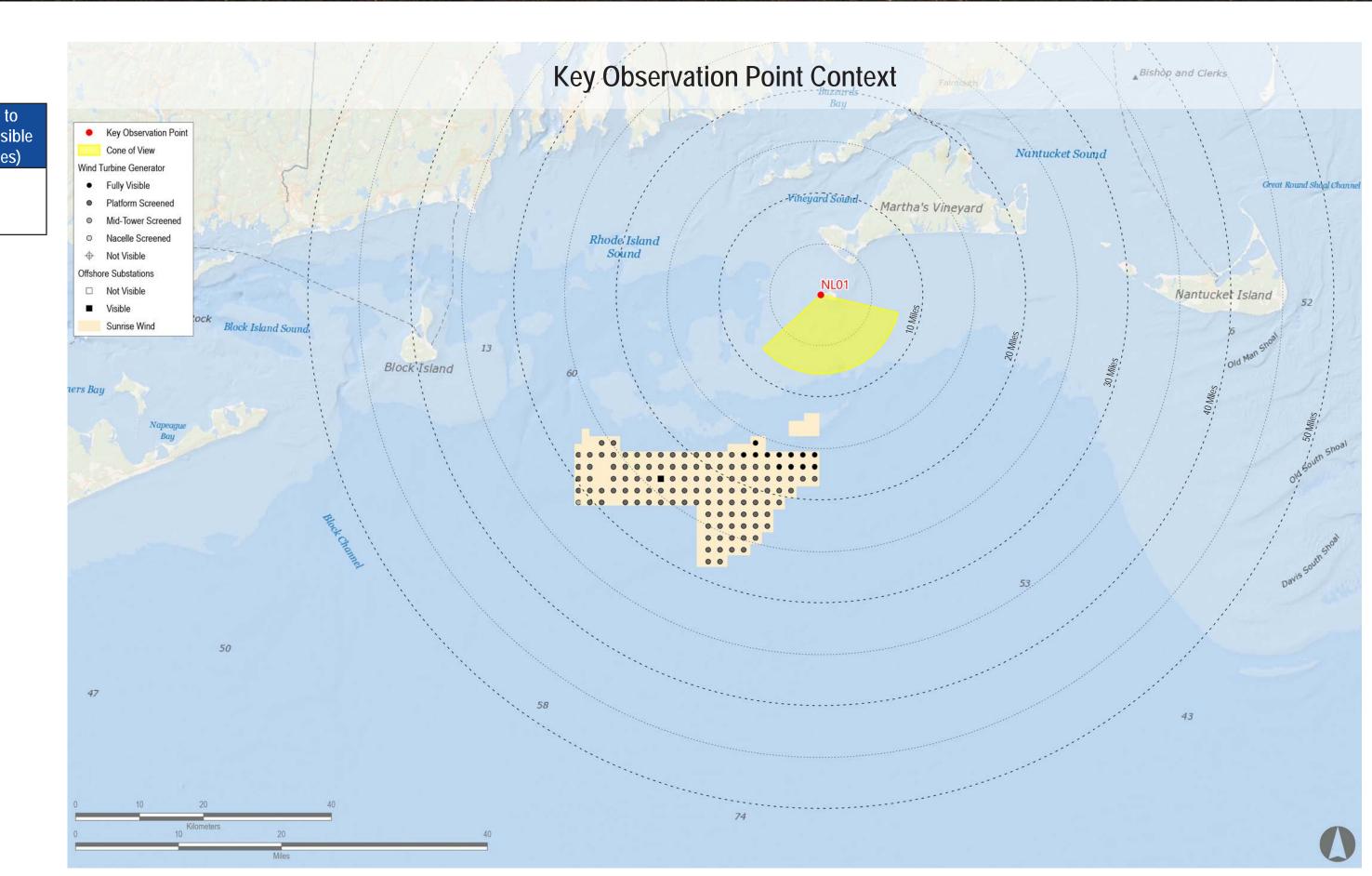
• The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.

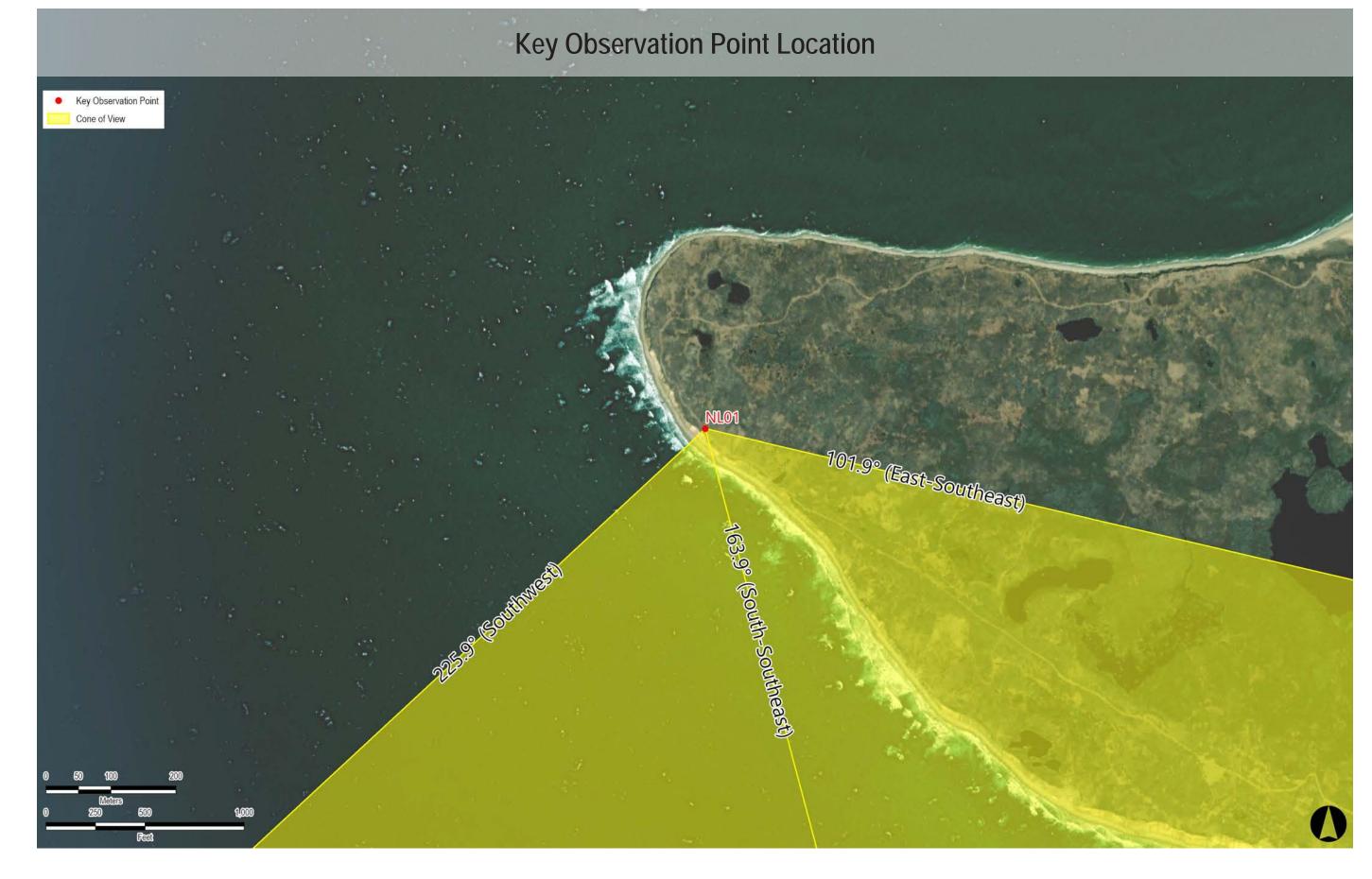
• The existing WTGs associated with the Block Island Wind Farm are 16.9 miles from KOP LI04. In the daytime photosimulation, the WTGs appear faint due to atmospheric

 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. Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of

perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum potential visibility of the proposed WTG, this degree of atmospheric perspective is not applied to the photosimulations. Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

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Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
Sunrise Wind	2024	15 MW	123	123	15.6	31.0







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Appendix A: Sunrise Wind Cumulative Visual Simulations

NL01-B: Nomans Land Island NWR, Chilmark, Massachusetts

Existing Conditions

Notes:

Key Observation Point Information Environmental Data Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles Wind Direction: NA

County: Dukes Town: Chilmark State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W Direction of View (Center): Southwest (214.6°)

Field of View: 124° x 55°

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Conditions Simulated: Partly Cloudy

Wind Speed: NA

Visual Resources Landscape Similarity Zone: Coastal Bluff User Group: No Access

Aesthetic Resource: Nomans Land Island National Wildlife Refuge

three-dimensional (3D) model of the island.

• Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.

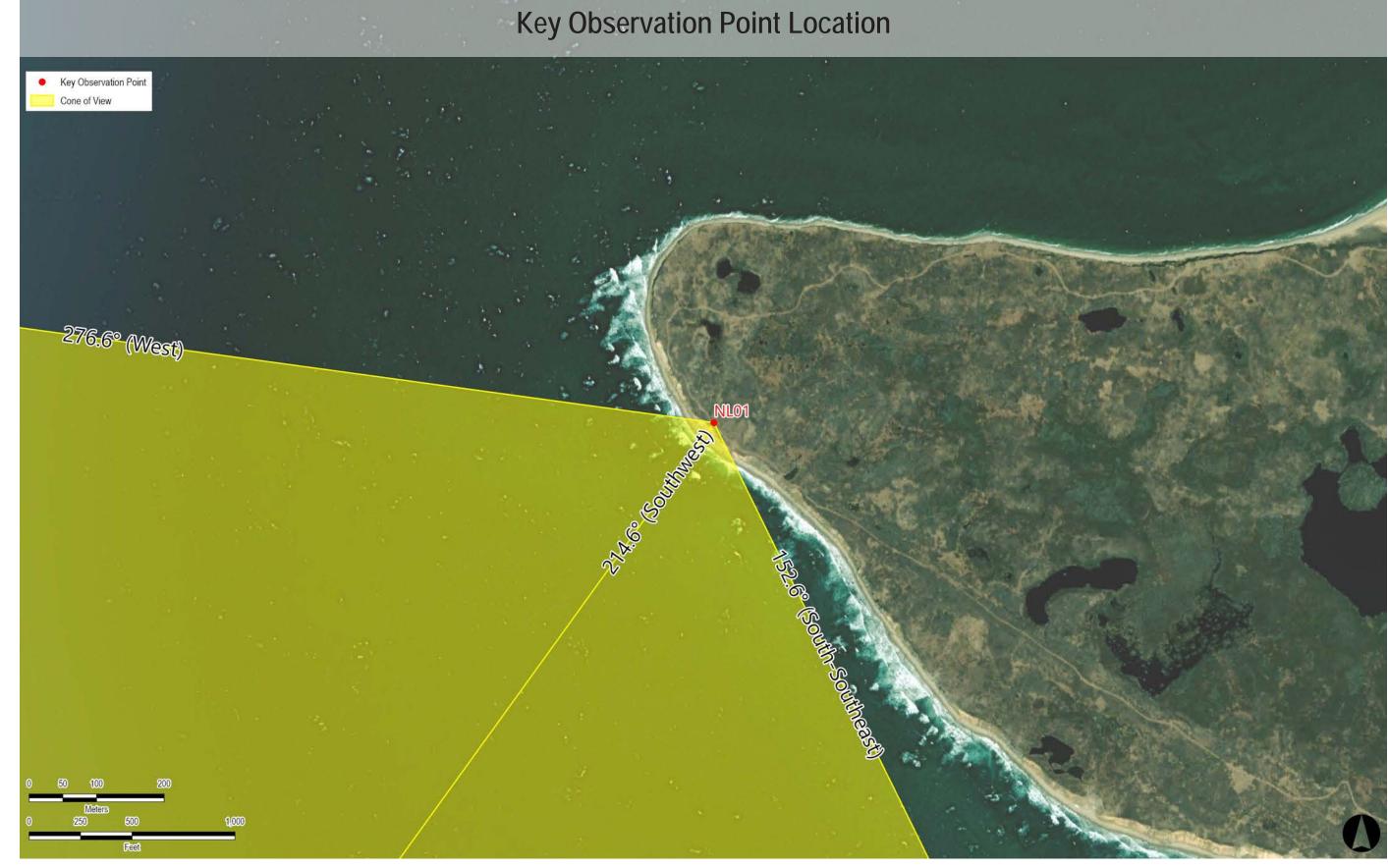
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structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography. Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which 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. Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of

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Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual

Key Observation Point Context Bishop and Clerks Key Observation Point Cone of View Great Round Shoal Channel Nantucket Island





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Appendix A: Sunrise Wind Cumulative Visual Simulations

NL01-B: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: 2023 and 2024 Project Construction (Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles Wind Direction: NA

State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W Direction of View (Center): Southwest (214.6°) Field of View: 124° x 55° Conditions Simulated: Partly Cloudy

County: Dukes

Town: Chilmark

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

three-dimensional (3D) model of the island.

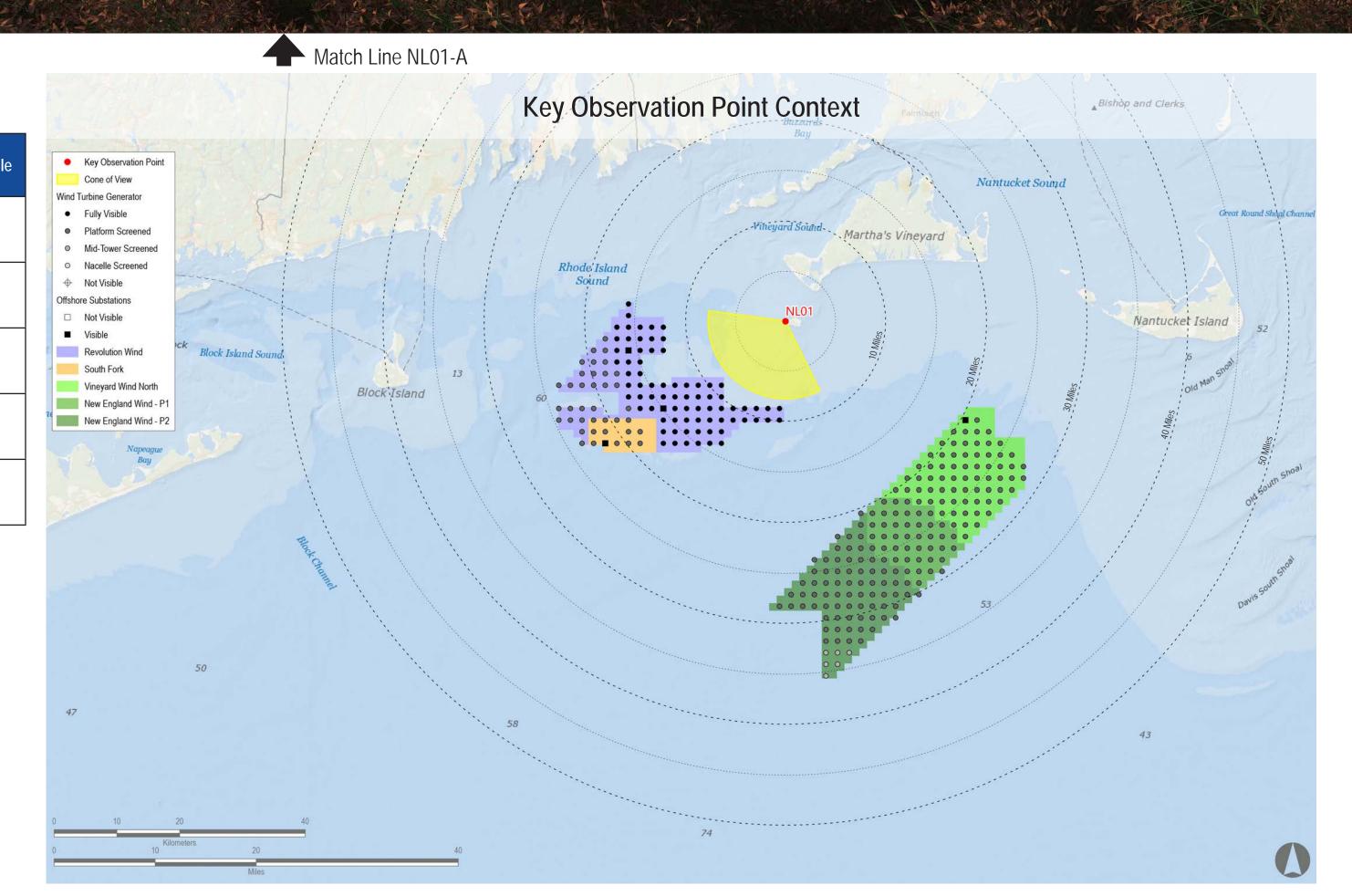
Visual Resources Landscape Similarity Zone: Coastal Bluff User Group: No Access Aesthetic Resource: Nomans Land Island National Wildlife Refuge

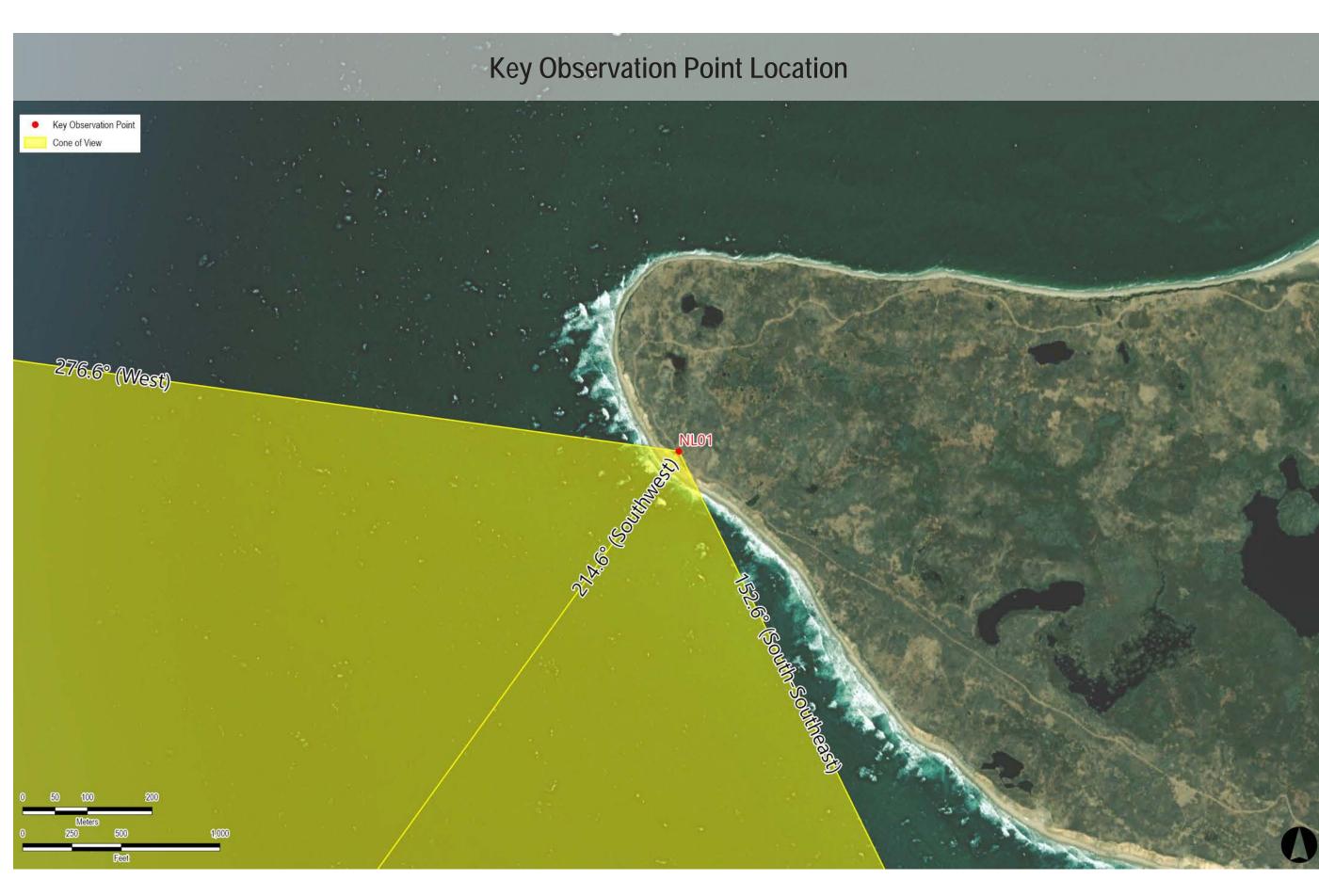
Wind Speed: NA

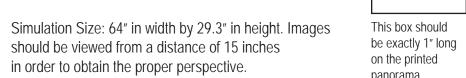
- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum
- 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. Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of
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Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	18.1	22.5
Vineyard Wind North	2023	14 MW	69	69	19.5	28.2
Revolution Wind	2023	12 MW	102	102	8.7	24.5
New England Wind Phase 1	2024	16 MW	41	41	20.4	29.2
New England Wind Phase 2	2024	19 MW	79	79	20.4	35.4









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Appendix A: Sunrise Wind Cumulative Visual Simulations

NL01-B: Nomans Land Island NWR, Chilmark, Massachusetts

Visual Simulation: 2023 and 2024 Project Construction with Sunrise Wind added (Sunrise Wind, Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Date Simulated*: 12/12/2017 Time Simulated: 8:30 AM Temperature: NA Humidity: NA Visibility: >10 miles

Conditions Simulated: Partly Cloudy

County: Dukes Town: Chilmark State: Massachusetts Location: Nomans Land Island Latitude, Longitude: 41.25712° N, 70.83100° W Direction of View (Center): Southwest (214.6°) Field of View: 124° x 55°

Virtual Camera Information Lens Focal Length: 50 mm Camera Height: 42.1 feet AMSL

Wind Direction: NA

Wind Speed: NA

Visual Resources User Group: No Access

Landscape Similarity Zone: Coastal Bluff Aesthetic Resource: Nomans Land Island National Wildlife Refuge

- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
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- WTG, this degree of atmospheric perspective is not applied to the photosimulations. Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

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South Fork Wind Farm	2023	12 MW	13	13	18.1	22.5		
Vineyard Wind North	2023	14 MW	69	69	19.5	28.2		
Revolution Wind	2023	12 MW	102	102	8.7	24.5		
New England Wind Phase 1	2024	16 MW	41	41	20.4	29.2		
New England Wind Phase 2	2024	19 MW	79	79	20.4	35.4		
Sunrise Wind	2024	15 MW	123	123	15.6	31.0		

