APPENDIX C

Revolution Wind Farm Cumulative Visual Simulations by Environmental Design and Research



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Appendix C: Revolution Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 Project Construction with Revolution Construction added (Revolution Wind, South Fork Wind, and Vineyard Wind North)

Eversource

Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 161.1 feet AMSL

Environmental Data

Temperature: 68°F

Humidity: 63% Visibility: >10 miles

Wind Speed: 8 mph

Camera Information

Notes:

Wind Direction: Northeast

Conditions Observed: Clear

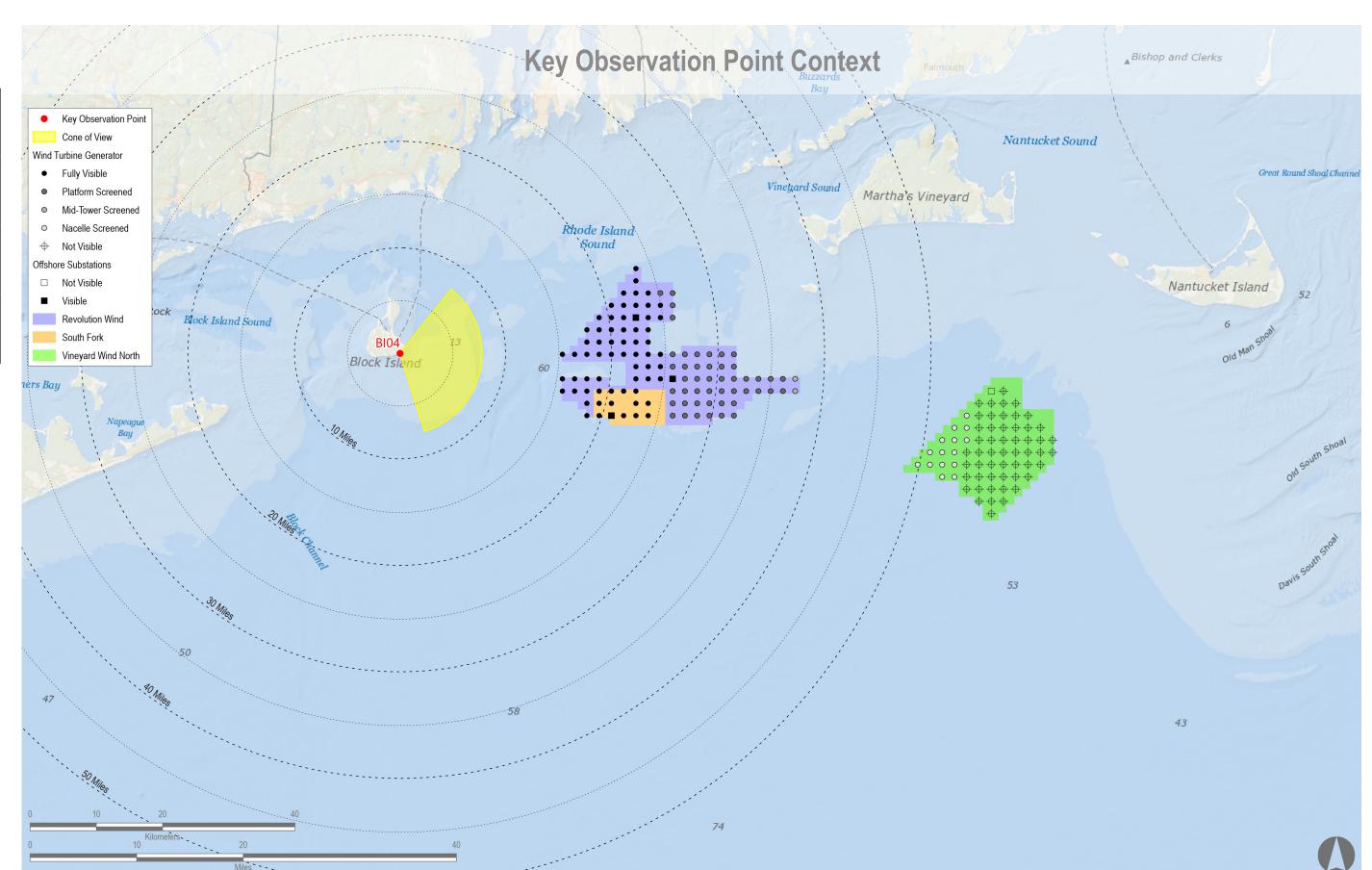
Key Observation Point Information County: Washington Town: New Shoreham State: Rhode Island Location: Block Island Latitude, Longitude: 41.15281° N, 71.55185° W **Direction of View (Center):** East (98.9°) Field of View: 124° x 55°

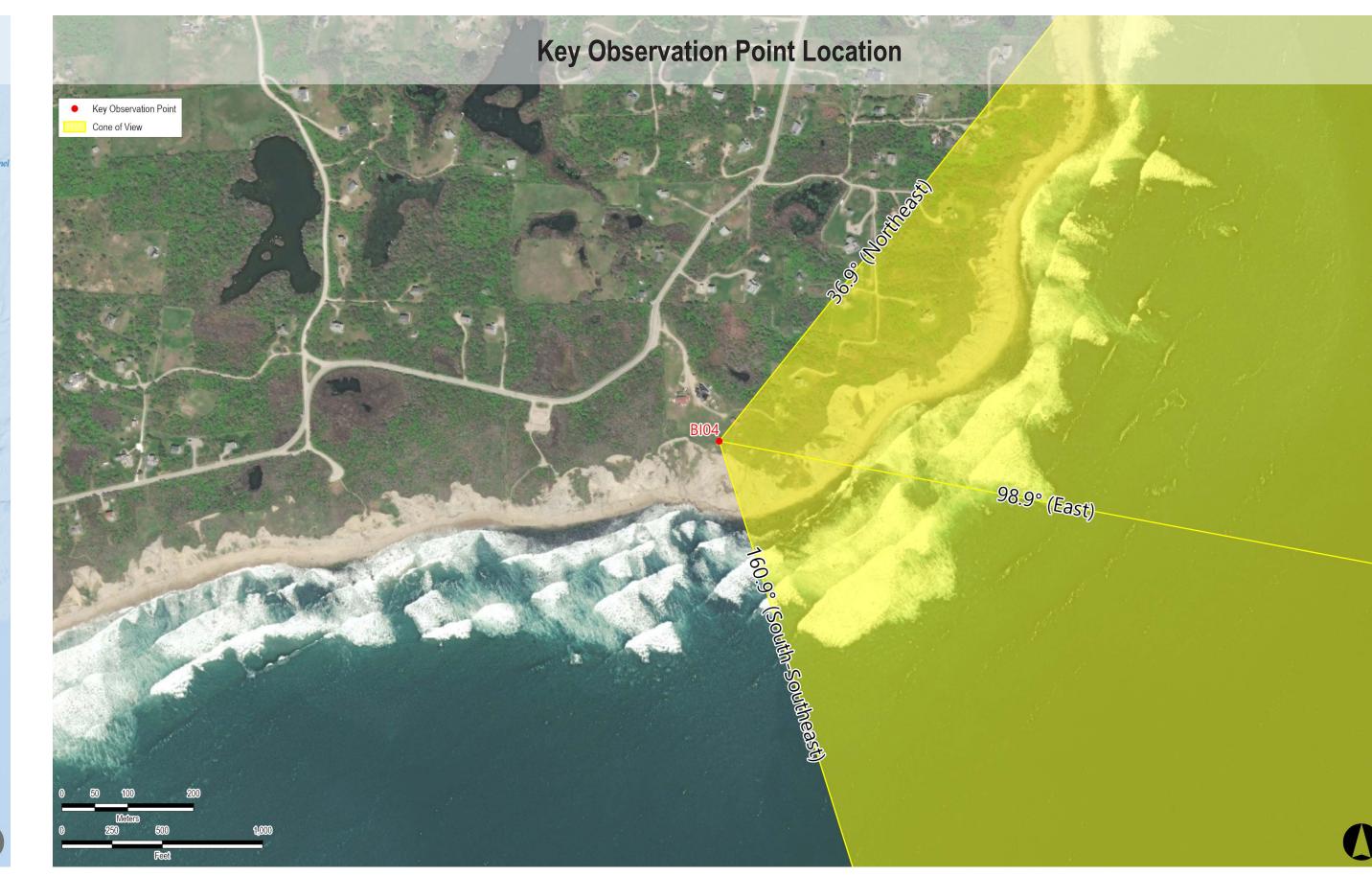
Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs

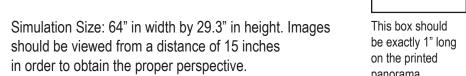
- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography. Offshore Substation location and 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
- 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 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.

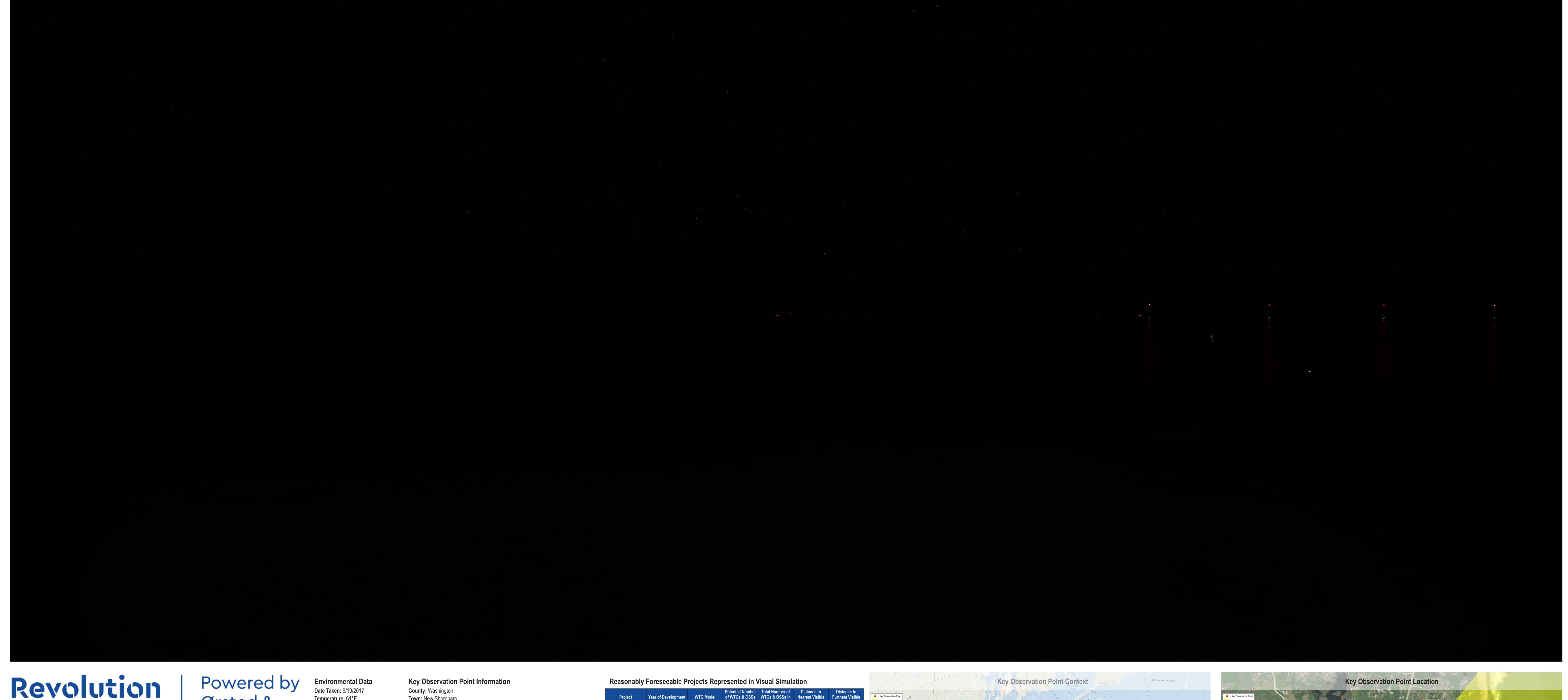
Reasonably Foreseeable Projects Represented in Visual Simulation

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)
ıth Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
neyard Wind North	2023	14 MW	15	69	49.6	53.7
Revolution Wind	2023	12 MW	102	102	15.2	37.2









Wind

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Appendix C: Revolution Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 Project Construction (South Fork Wind and Vineyard Wind North)

Temperature: 61°F **Humidity:** 93% Visibility: >10 miles Wind Direction: North-Northwest Wind Speed: 6 mph

> **Camera Information** Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 161.1 feet AMSL Notes:

Conditions Observed: Fair

Town: New Shoreham State: Rhode Island Location: Block Island Latitude, Longitude: 41.15281° N, 71.55185° W **Direction of View (Center):** East (98.9°)

Visual Resources Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs

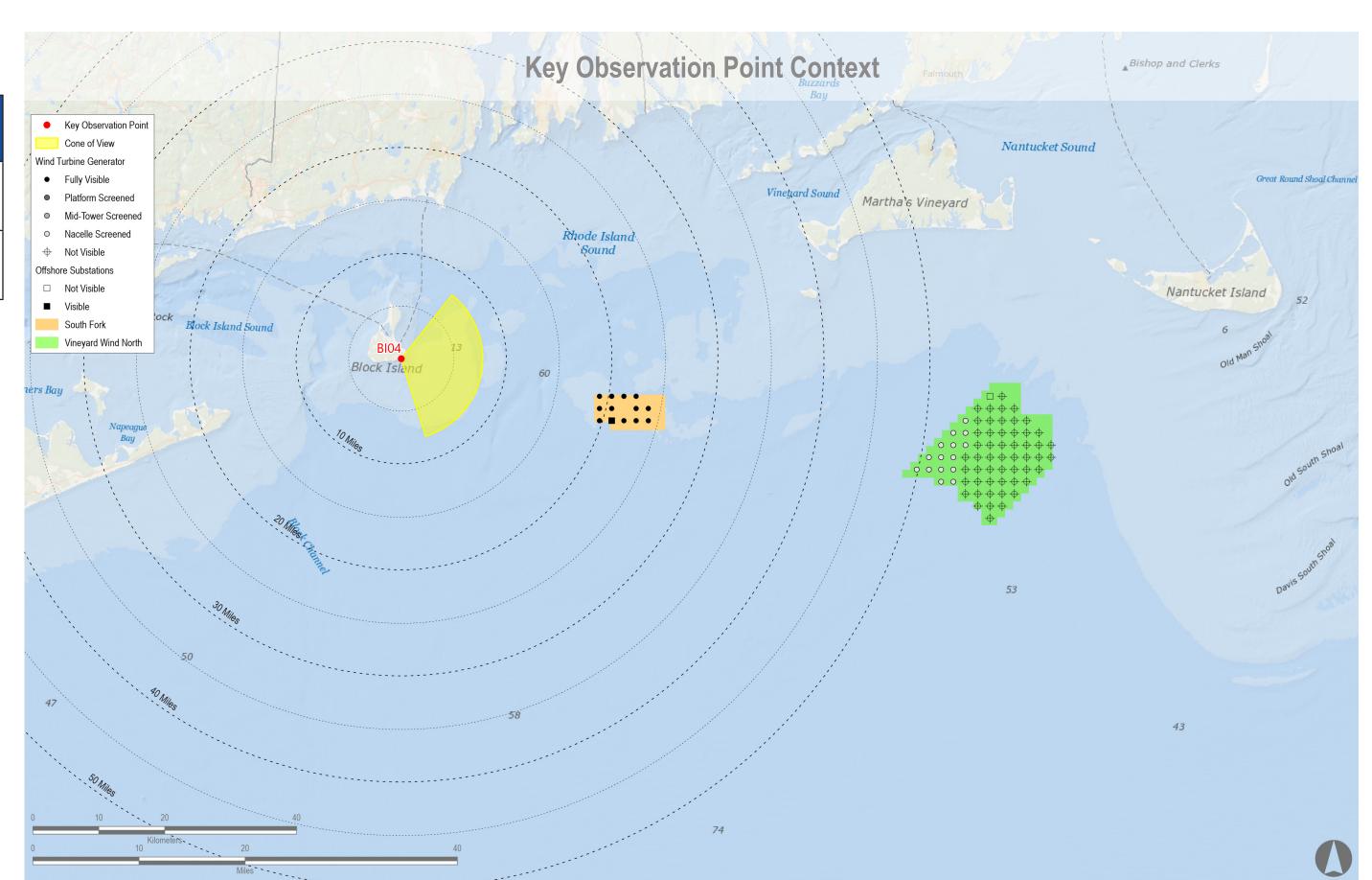
Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.

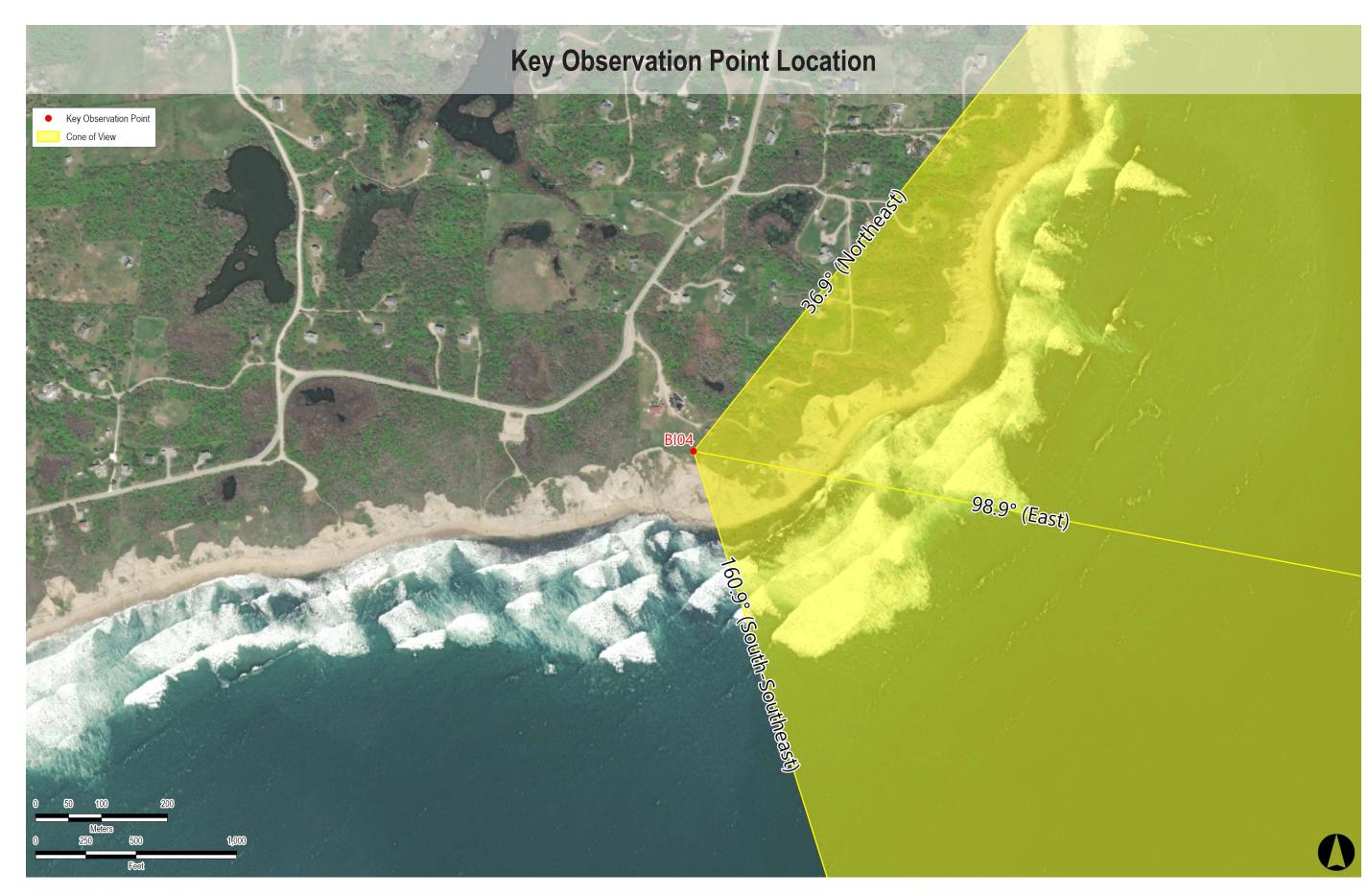
 The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.

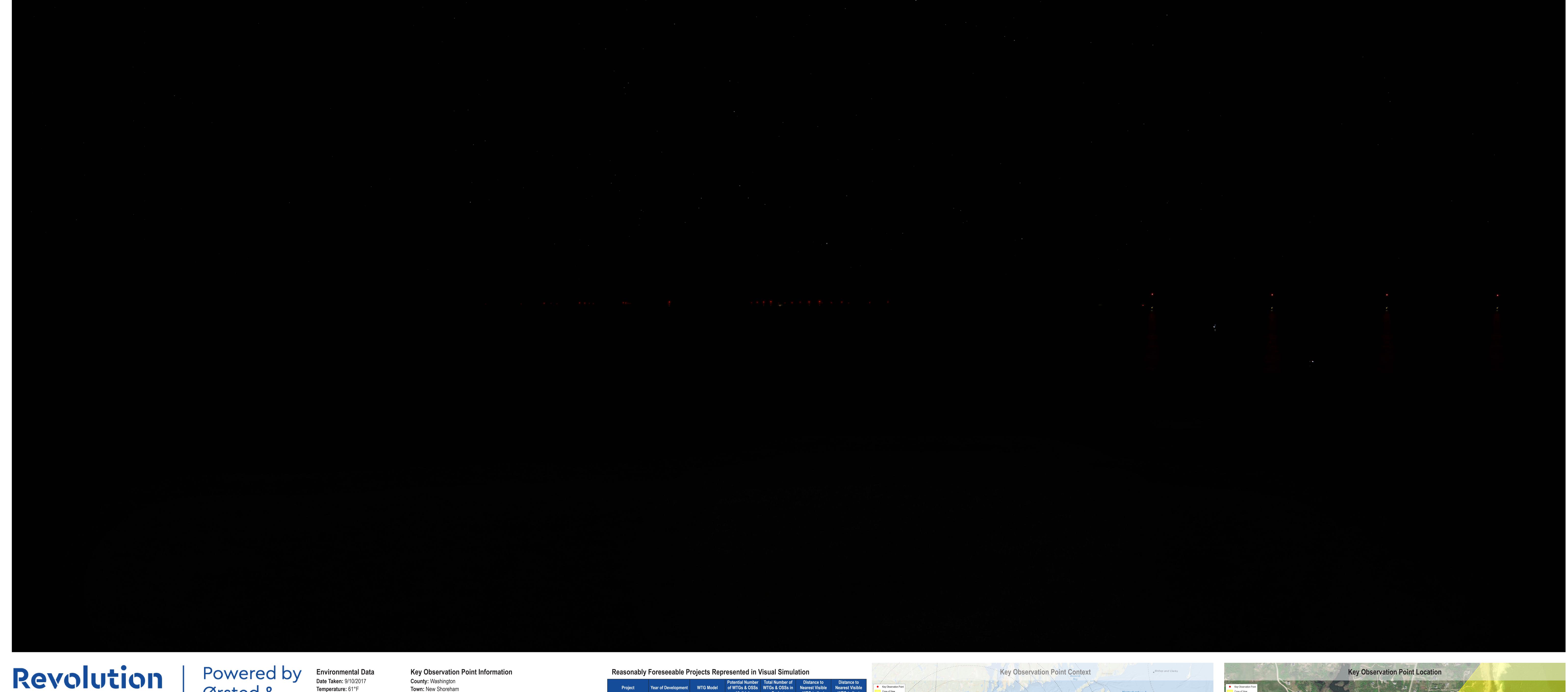
Field of View: 124° x 55°

- 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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- 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.

Reasonably Foreseeable Projects Represented in Visual Simulation									
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	19.0	24.0			
Vineyard Wind North	2023	14 MW	0	69	NA	NA			







Wind

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Appendix C: Revolution Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 Project Construction with Revolution Construction added (Revolution Wind, South Fork Wind, and Vineyard Wind North)

Temperature: 61°F **Humidity:** 93% Visibility: >10 miles Wind Direction: North-Northwest Wind Speed: 6 mph

> **Camera Information** Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 161.1 feet AMSL

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

Notes:

Conditions Observed: Fair

State: Rhode Island Location: Block Island Latitude, Longitude: 41.15281° N, 71.55185° W **Direction of View (Center):** East (98.9°) Field of View: 124° x 55°

WTG, this degree of atmospheric perspective is not applied to the photosimulations.

Visual Resources Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs

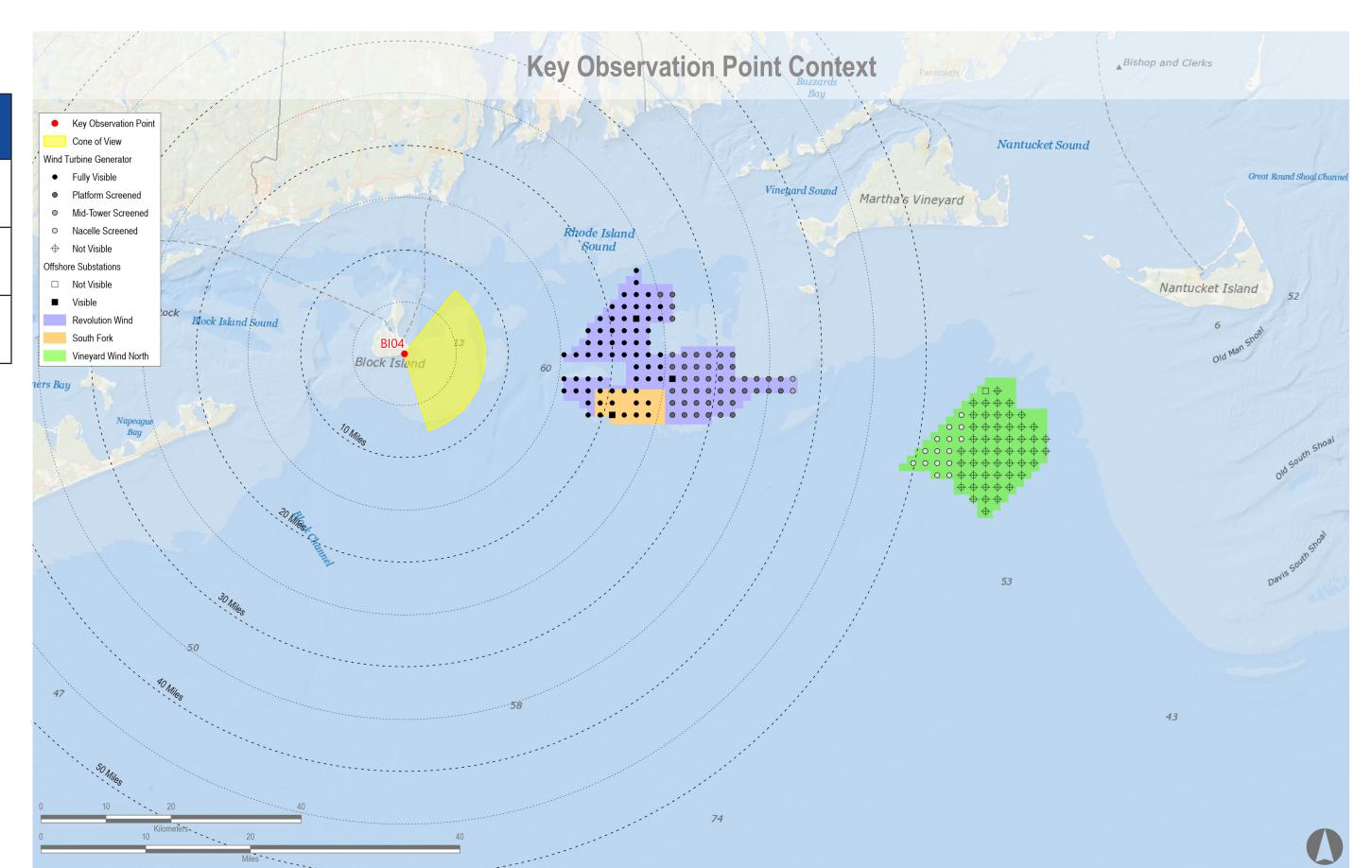
- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum

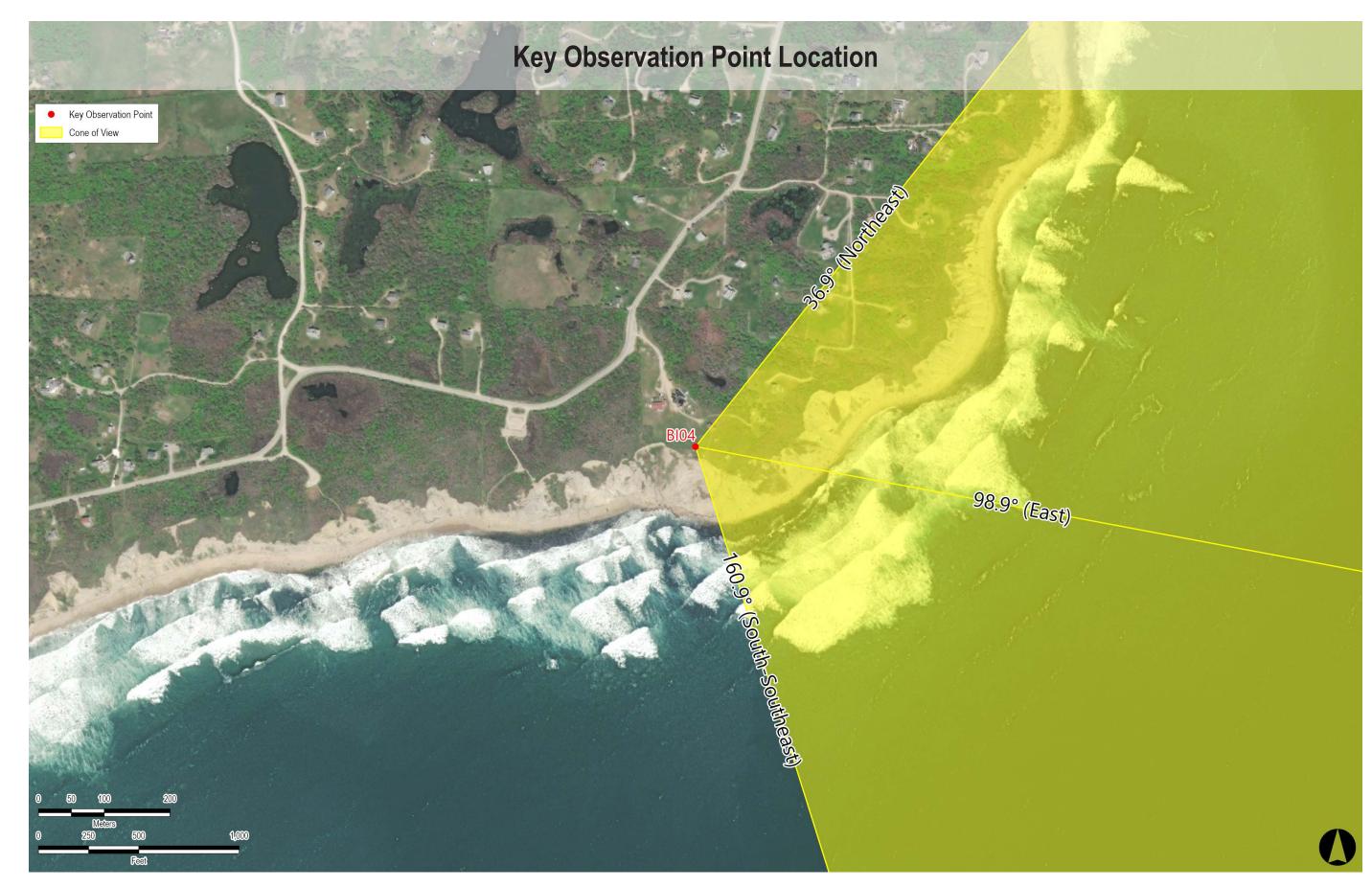
Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of

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Reasonably Foreseeable Projects Represented in Visual Simulation									
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 Nearest Visible WTG (miles)			
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ineyard Wind North	2023	14 MW	0	69	NA	NA			
Revolution Wind	2023	12 MW	102	102	15.2	37.2			







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Appendix C: Revolution Wind Cumulative Visual Simulations

LI04: Montauk Point State Park, East Hampton, New York

Visual Simulation: Full Lease Build-out Excluding Revolution Wind

Environmental Data

Humidity: 68%
Visibility: >10 miles Wind Speed: 7 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 48.0 feet AMSL

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

Key Observation Point Information

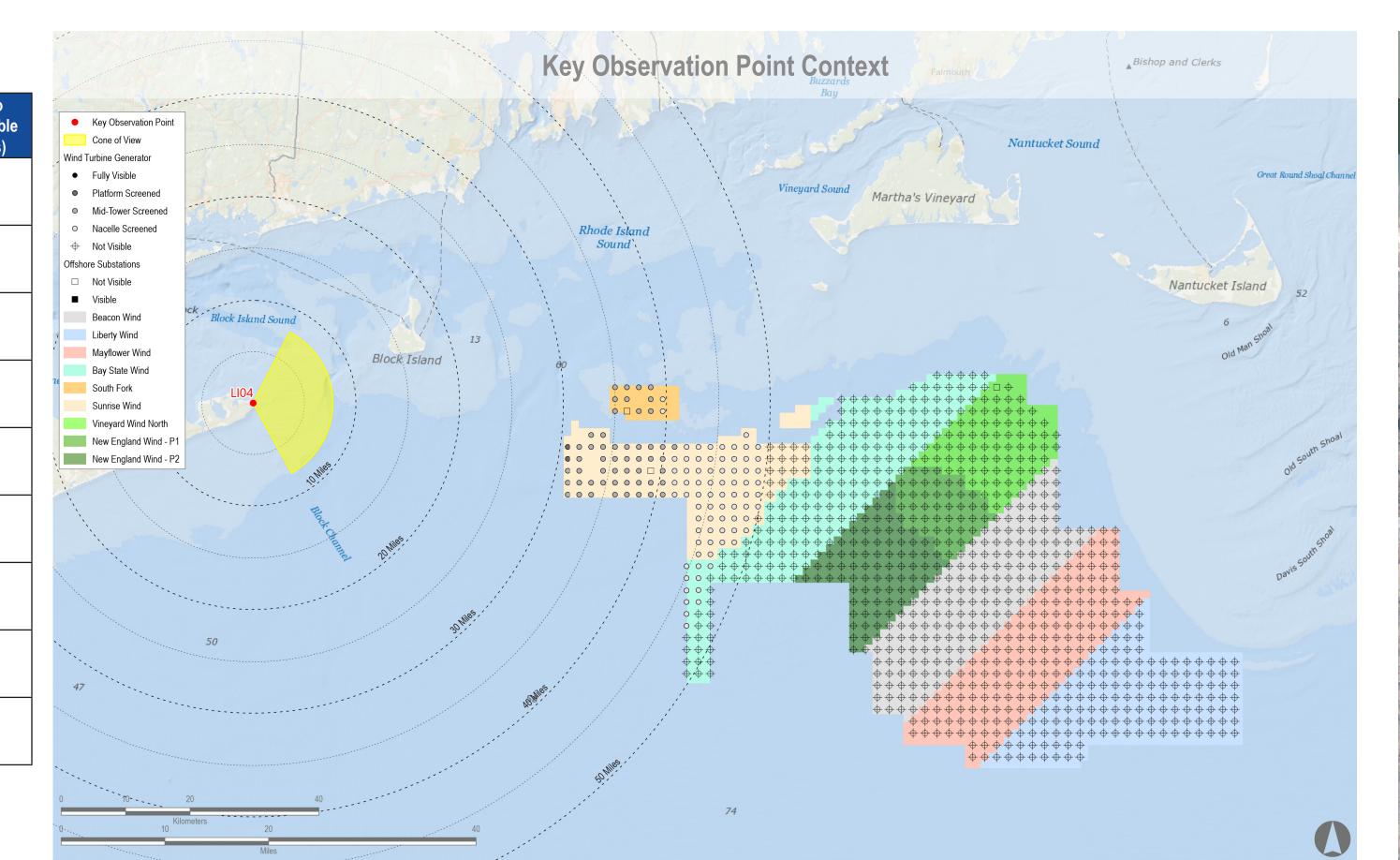
County: Suffolk Town: East Hampton State: New York Location: Long Island Latitude, Longitude: 41.07208° N, 71.85901° W **Direction of View (Center):** East (87.3°) Field of View: 124° x 55°

Visual Resources Landscape Similarity Zone: Maintained Recreation Area User Group: Local Resident, Tourist/Vacationers, Fishing Community Aesthetic Resource: Montauk Point State Park, National Register Historic Site, Scenic Area of Statewide Significance

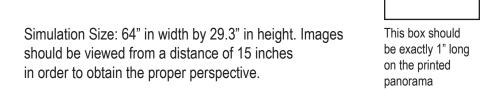
- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective. The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum
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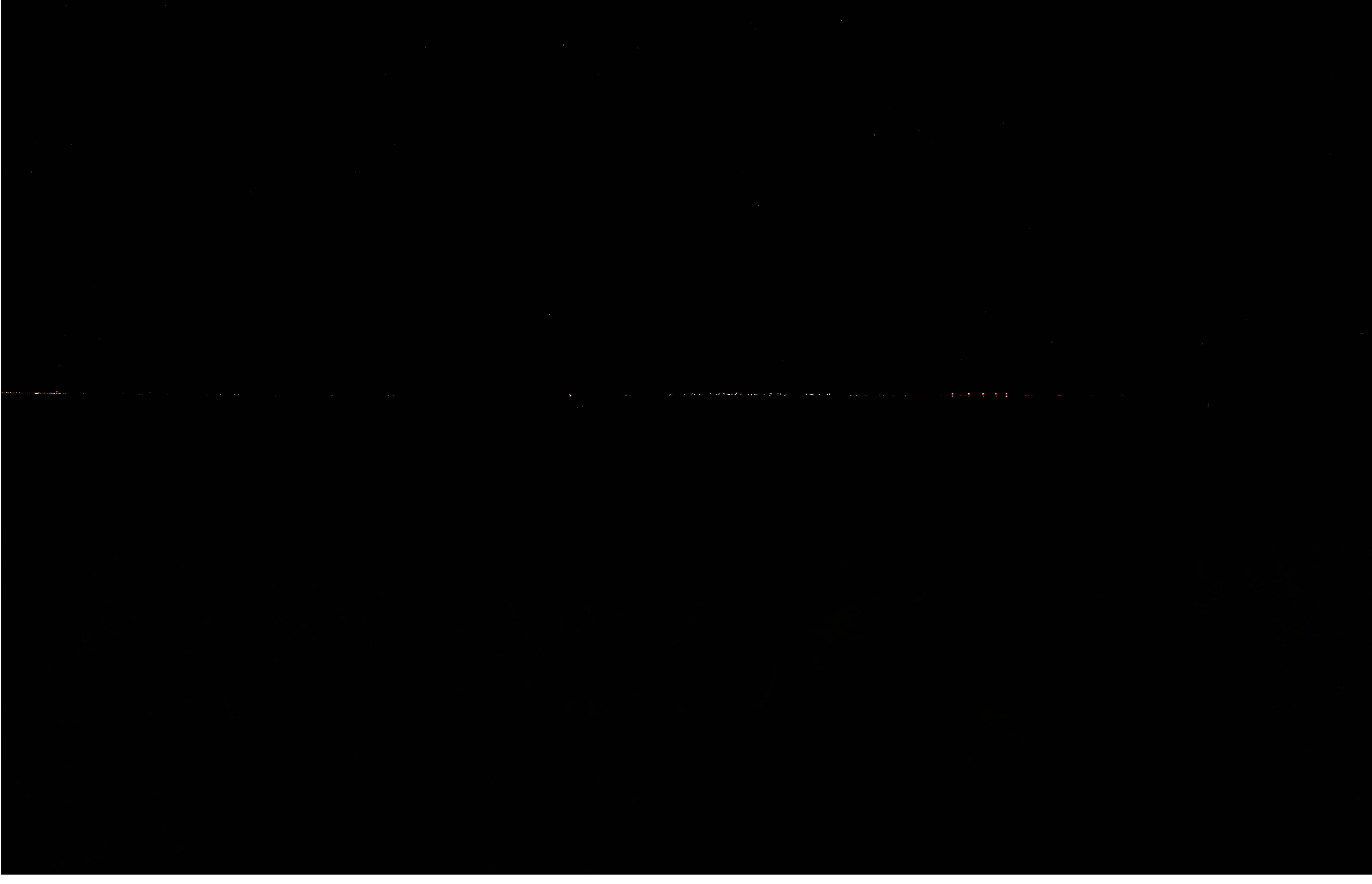
Reasonably Foreseeable Projects Represented in Visual Simulation

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	12	13	34.8	39.4
Vineyard Wind North	2023	14 MW	0	69	NA	NA
New England Wind Phase 1	2024	16 MW	0	41	NA	NA
New England Wind Phase 2	2024	19 MW	0	79	NA	NA
Sunrise Wind	2024	15 MW	106	123	30.5	49.6
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	0	157	NA	NA
Bay State Wind	2025-2030	12 MW	11	185	44.6	47.0









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Appendix C: Revolution Wind Cumulative Visual Simulations

on the printed

LI04 Night: Montauk Point State Park, East Hampton, New York

Visual Simulation: 2023 Project Construction with Revolution Construction added (Revolution Wind, South Fork Wind, and Vineyard Wind North)

Environmental Data

Temperature: 57°F
Humidity: 93%
Visibility: >10 miles
Wind Direction: Calm Wind Speed: 0 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 48.0 feet AMSL

Notes:

County: Suffolk Town: East Hampton State: New York Location: Long Island Latitude, Longitude: 41.07208° N, 71.85901° W **Direction of View (Center):** East (87.3°) Field of View: 124° x 55°

Key Observation Point Information

Visual Resources Landscape Similarity Zone: Maintained Recreation Area User Group: Local Resident, Tourist/Vacationers, Fishing Community Aesthetic Resource: Montauk Point State Park, National Register Historic Site, Scenic Area of Statewide Significance

• 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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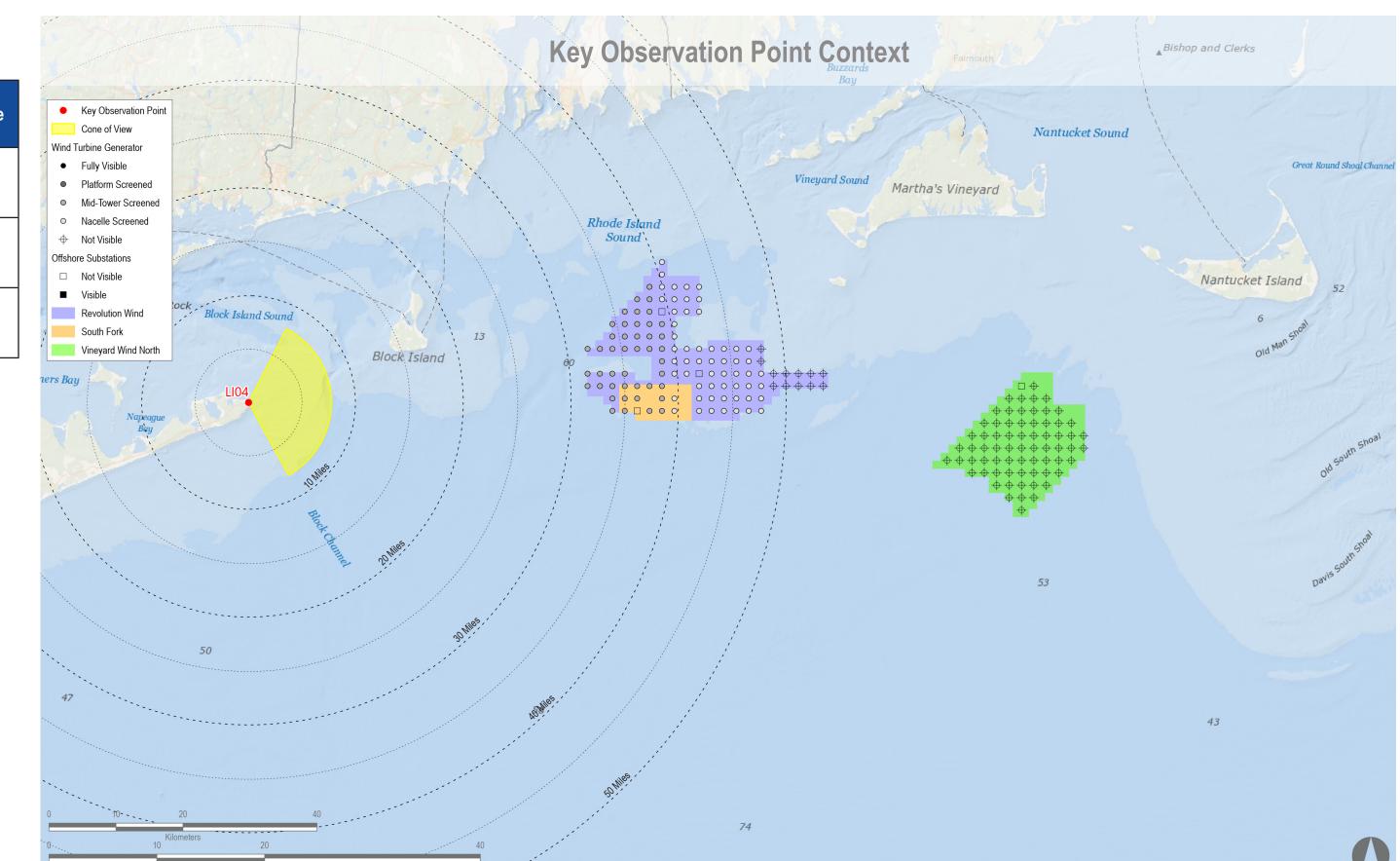
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Reasonably Foreseeable Projects Represented in Visual Simulation

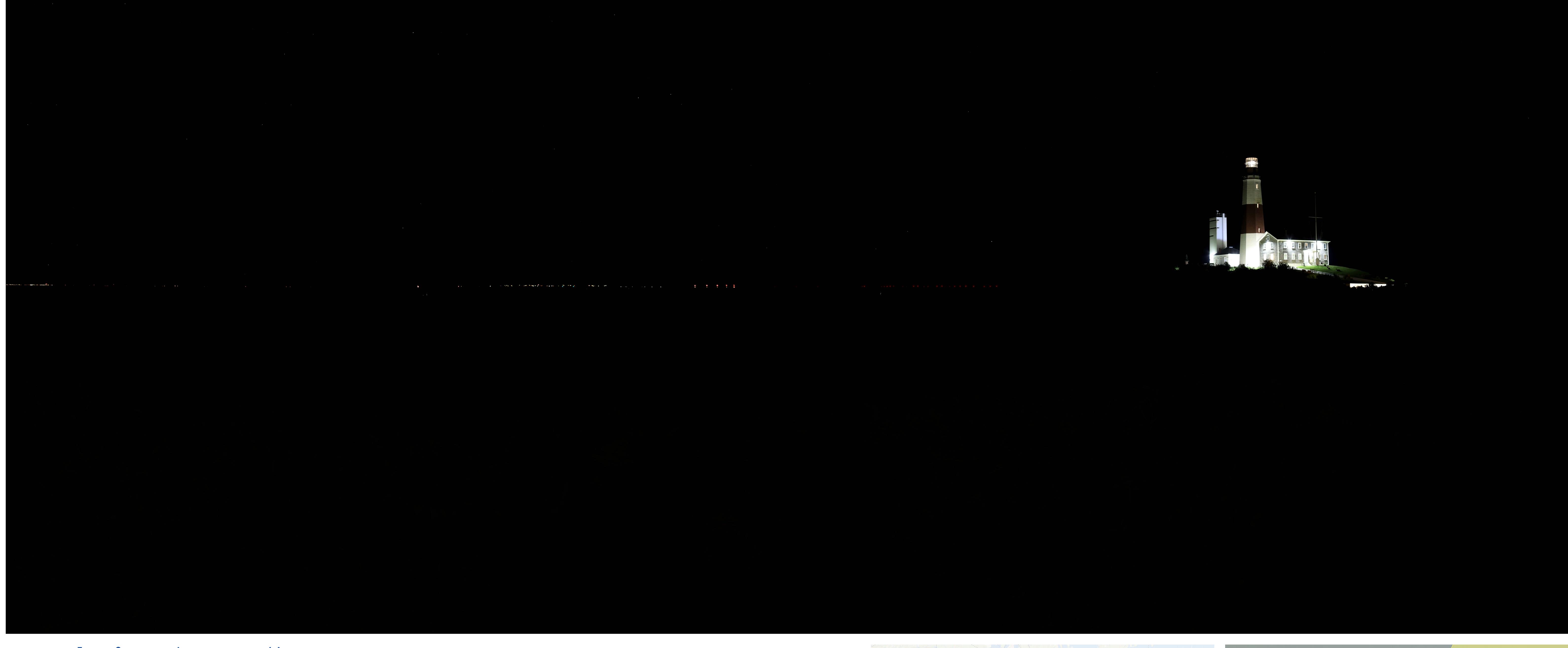
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Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
th Fork Wind Farm	2023	12 MW	7	13	34.8	39.4
eyard Wind North	2023	14 MW	0	69	NA	NA
Revolution Wind	2023	12 MW	30	102	31.4	38.5





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

This box should should be viewed from a distance of 15 inches in order to obtain the proper perspective.



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Appendix C: Revolution Wind Cumulative Visual Simulations

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on the printed

LI04 Night: Montauk Point State Park, East Hampton, New York

Visual Simulation: Full Lease Build-out Excluding Revolution Wind

Environmental Data Temperature: 57°F Humidity: 93% Visibility: >10 miles Wind Direction: Calm

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

Wind Speed: 0 mph

Notes:

Conditions Observed: Fair

Key Observation Point Information County: Suffolk

Town: East Hampton State: New York Location: Long Island Latitude, Longitude: 41.07208° N, 71.85901° W **Direction of View (Center):** East (87.3°) Field of View: 124° x 55°

Camera Height: 48.0 feet AMSL

Visual Resources Landscape Similarity Zone: Maintained Recreation Area User Group: Local Resident, Tourist/Vacationers, Fishing Community Aesthetic Resource: Montauk Point State Park, National Register Historic Site, Scenic Area of Statewide Significance

• 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.

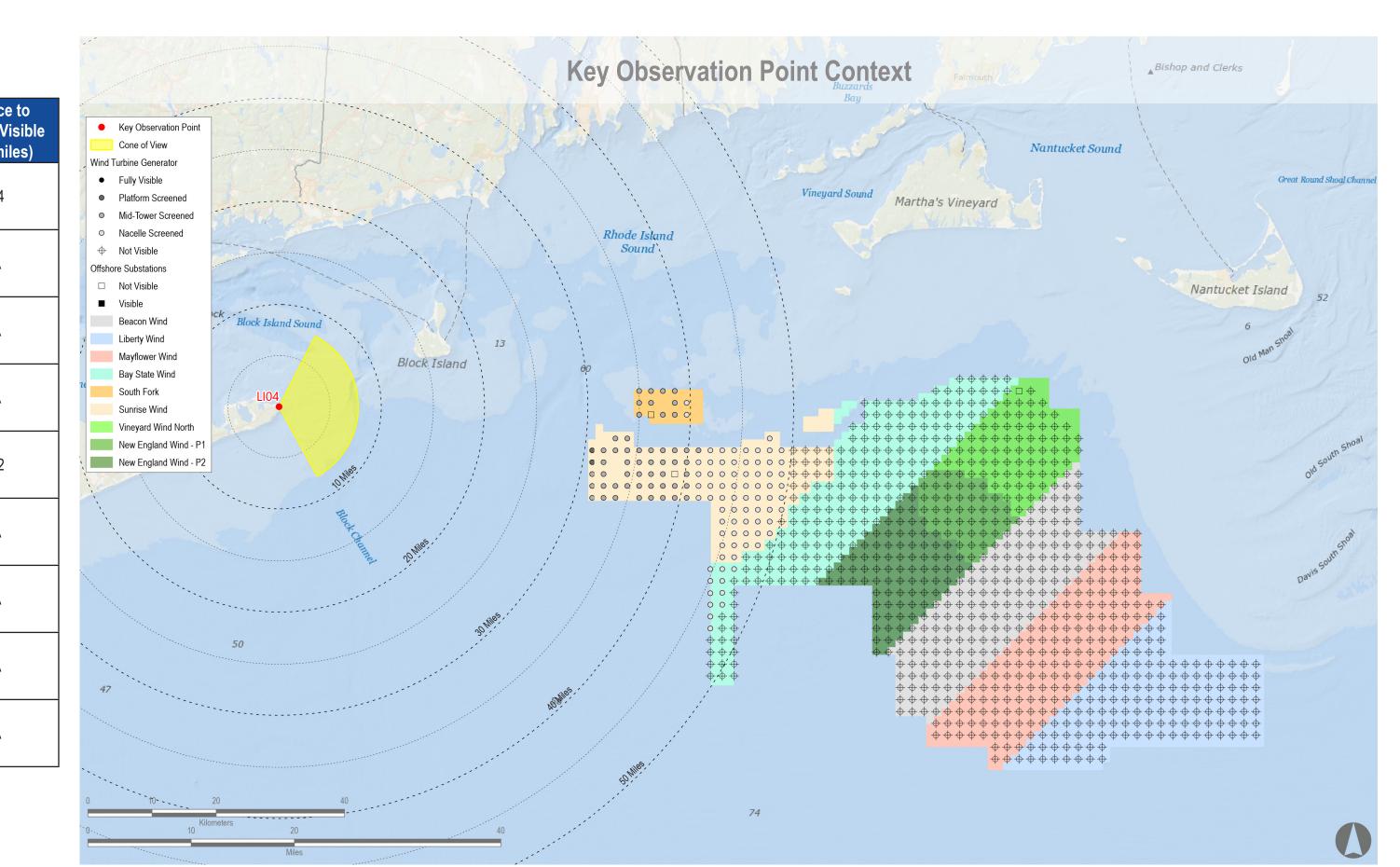
 Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used for all foundation positions. OSS positions and dimensions considered in this photosimulation are subject to potential modification. Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of

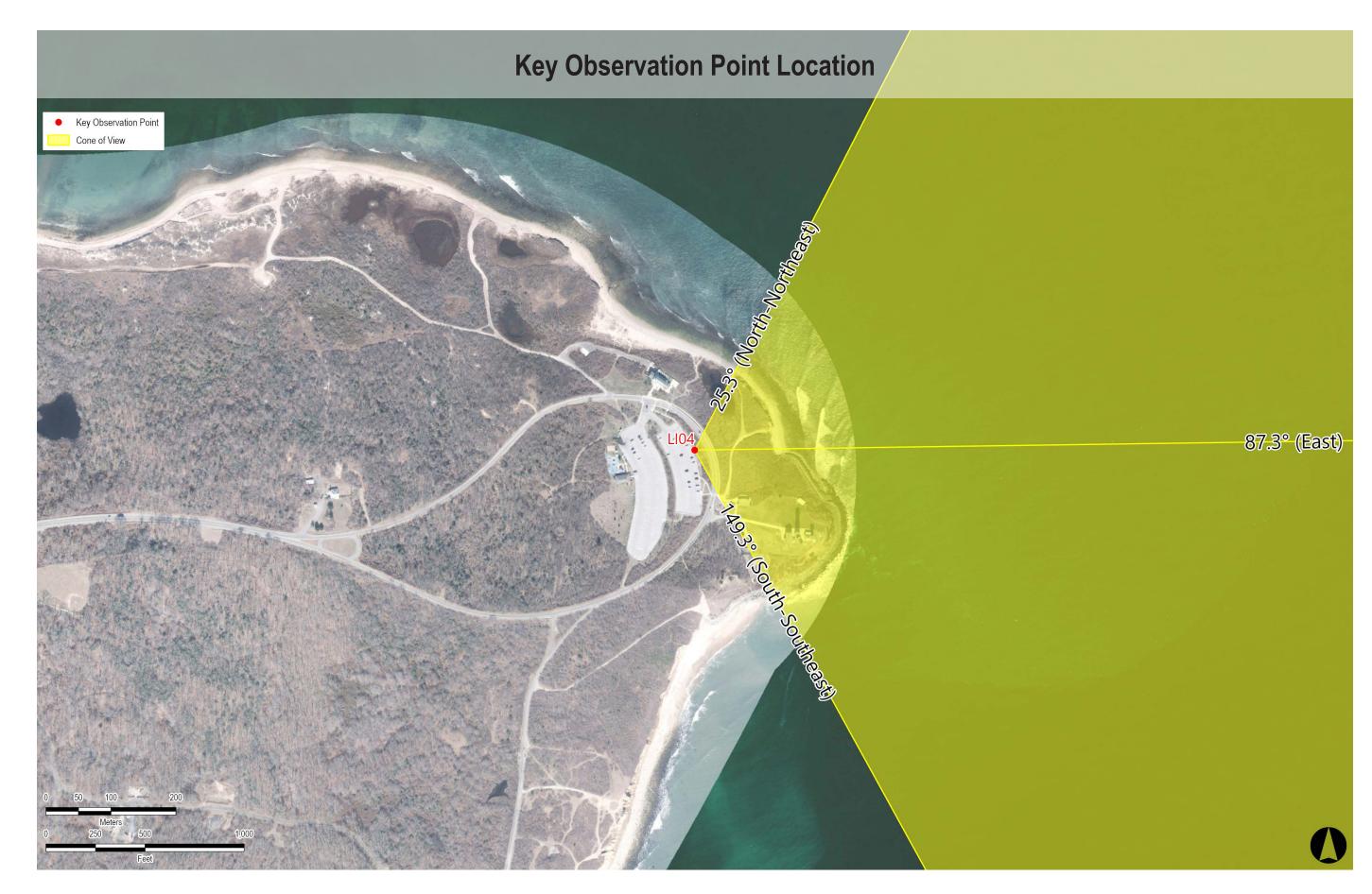
• The existing WTGs associated with the Block Island Wind Farm are 16.9 miles from KOP LI04. In the daytime photosimulation, the WTGs appear faint due to atmospheric perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum 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.

Reasonably Foreseeable Projects Represented in Visual Simulation

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	7	13	34.8	39.4
Vineyard Wind North	2023	14 MW	0	69	NA	NA
New England Wind Phase 1	2024	16 MW	0	41	NA	NA
New England Wind Phase 2	2024	19 MW	0	79	NA	NA
Sunrise Wind	2024	15 MW	42	123	30.5	40.2
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	0	157	NA	NA
Bay State Wind	2025-2030	12 MW	0	185	NA	NA





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

This box should should be viewed from a distance of 15 inches in order to obtain the proper perspective.





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Appendix C: Revolution Wind Cumulative Visual Simulations

on the printed

LI04 Night: Montauk Point State Park, East Hampton, New York

Visual Simulation: Revolution Wind Without Other Foreseeable Future Changes

Environmental Data Temperature: 57°F Humidity: 93% Visibility: >10 miles Wind Direction: Calm

Wind Speed: 0 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 48.0 feet AMSL

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

State: New York Location: Long Island Latitude, Longitude: 41.07208° N, 71.85901° W **Direction of View (Center):** East (87.3°) Field of View: 124° x 55°

Key Observation Point Information

Visual Resources Landscape Similarity Zone: Maintained Recreation Area User Group: Local Resident, Tourist/Vacationers, Fishing Community Aesthetic Resource: Montauk Point State Park, National Register Historic Site, Scenic Area of Statewide Significance

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

County: Suffolk

Town: East Hampton

• 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.

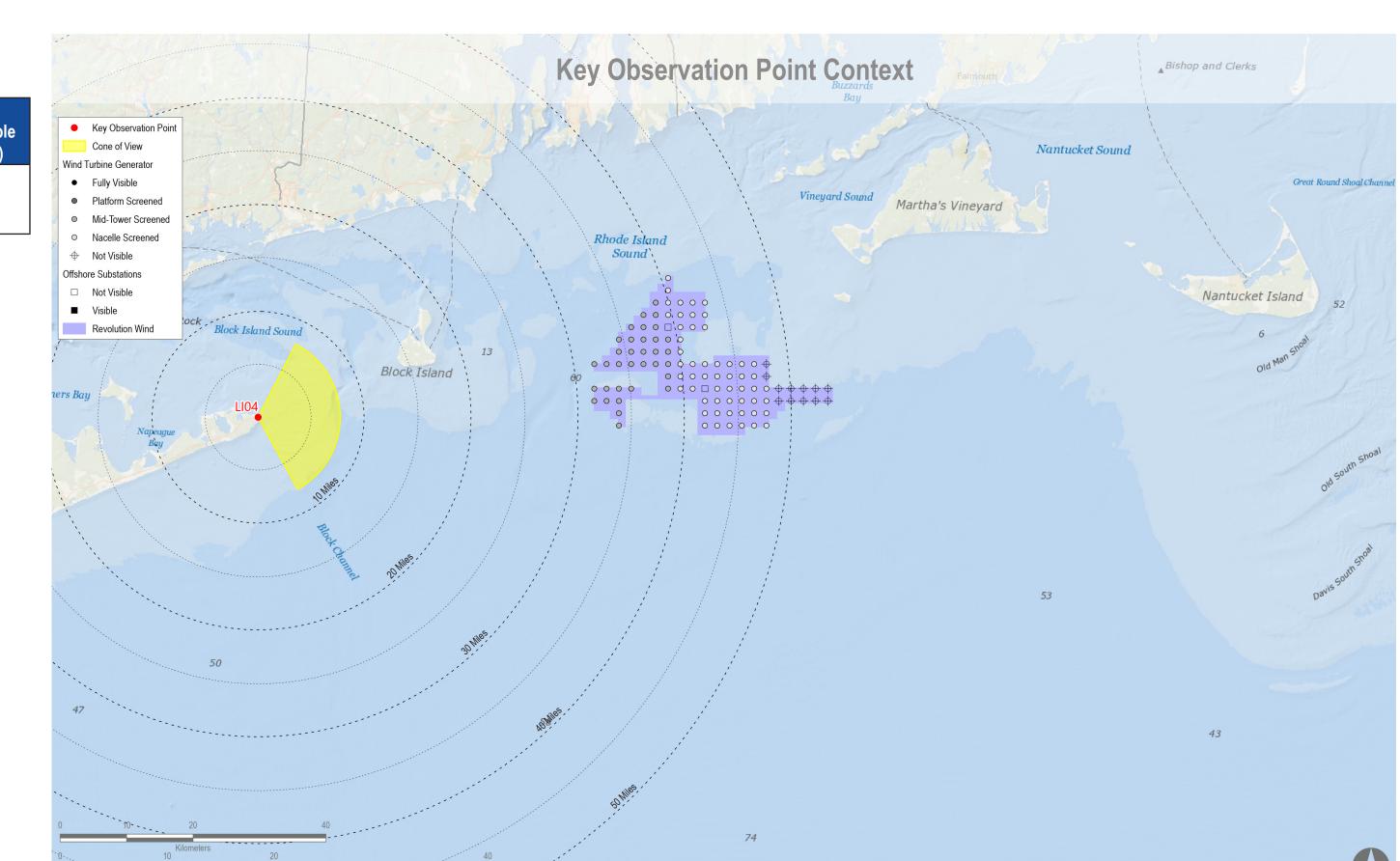
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Reasonably Foreseeable Projects Represented in Visual Simulation

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)
Revolution Wind	2023	12 MW	30	102	31.4	38.5





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

This box should should be viewed from a distance of 15 inches in order to obtain the proper perspective.



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Appendix C: Revolution Wind Cumulative Visual Simulations

MV11: Wasque Point, Edgartown, Massachusetts

Visual Simulation: Revolution Wind Without Other Foreseeable Future Changes

Environmental Data Date Taken: 9/11/2021 Temperature: 72°F

Humidity: 46%
Visibility: >10 miles Wind Direction: West Wind Speed: 9 mph Conditions Observed: Fair

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 25.7 feet AMSL **Key Observation Point Information**

County: Dukes Town: Edgartown State: Massachusetts Location: Martha's Vineyard Latitude, Longitude: 41.35082° N, 70.45932° W Direction of View (Center): South-Southwest (202.4°) Field of View: 124° x 55°

Visual Resources Landscape Similarity Zone: Shoreline Beach User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Wasque Point

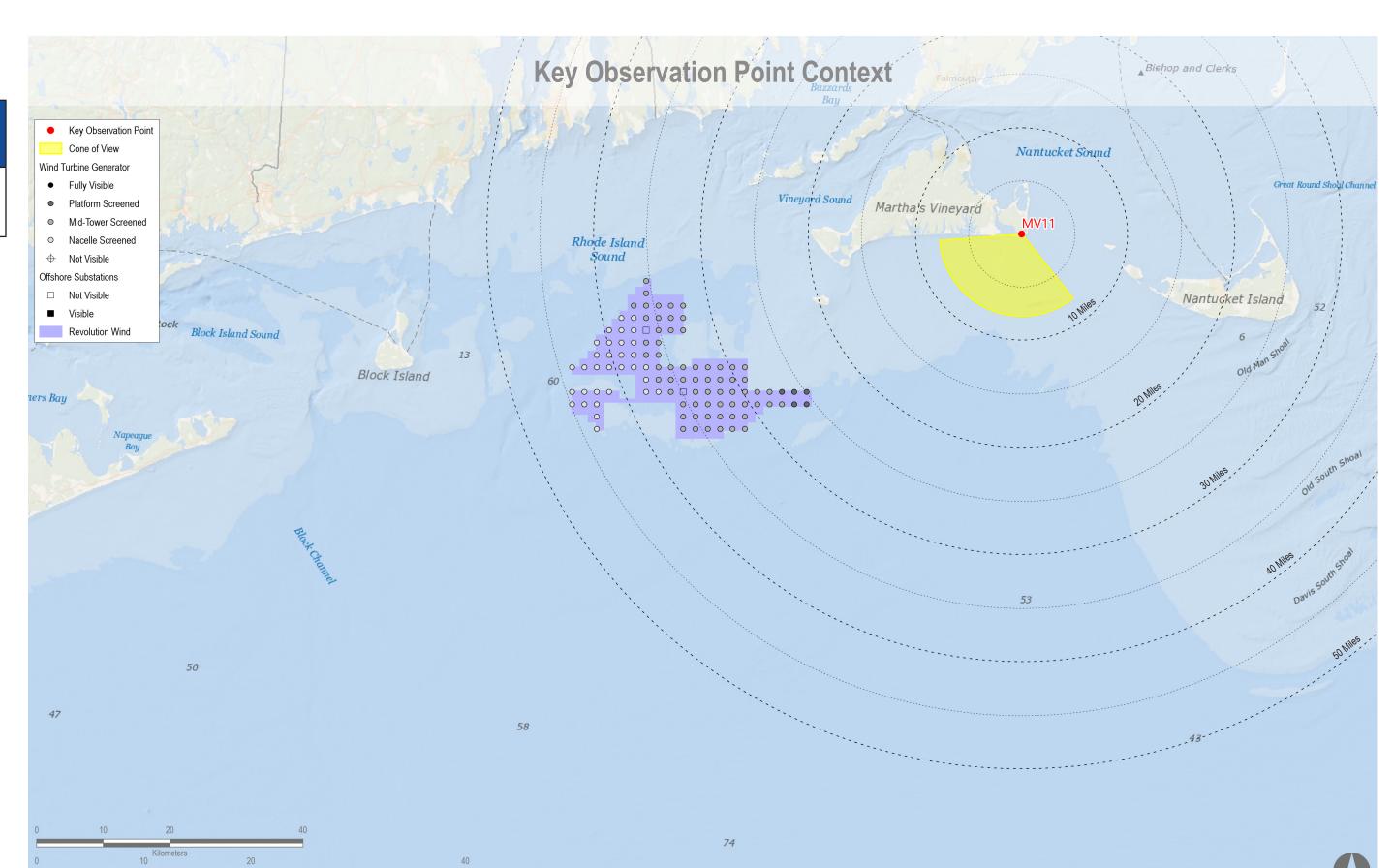
- Photosimulation Size: 64" in width by 29.3" in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum
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- 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 perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum potential visibility of the proposed

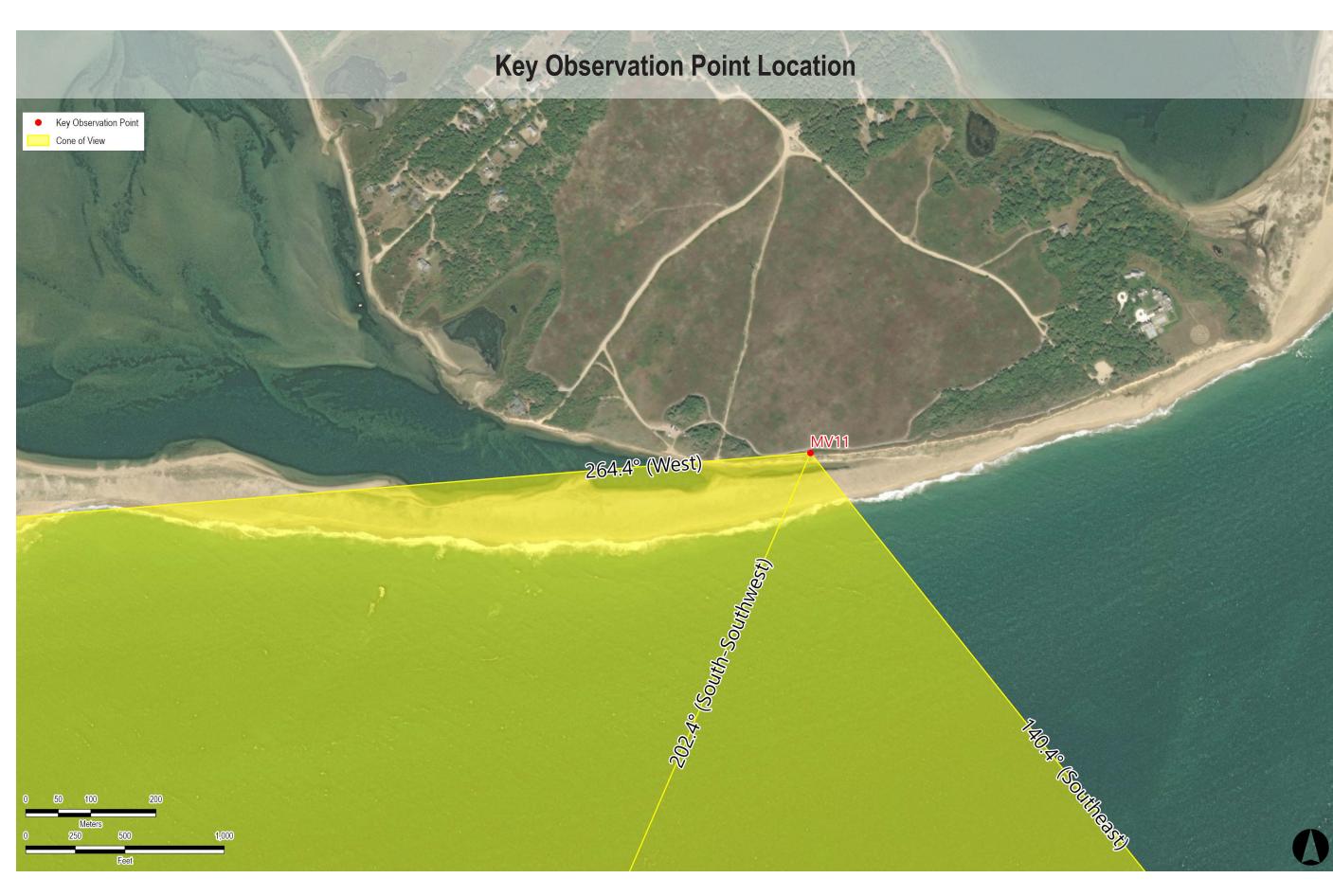
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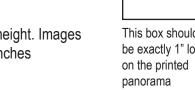
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Reasonably Foreseeable Projects Represented in Visual Simulation

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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)		
Revolution Wind	2023	12 MW	100	102	24.9	44.7		









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Appendix C: Revolution Wind Cumulative Visual Simulations

RI03: Point Judith Lighthouse, Narragansett, Rhode Island

Visual Simulation: Revolution Wind Without Other Foreseeable Future Changes

Environmental Data Date Taken: 8/3/2017 **Time:** 12:34 PM Temperature: 77°F

Humidity: 79%
Visibility: >10 miles
Wind Direction: South Wind Speed: 10 mph Conditions Observed: Partly Cloudy

Camera Information Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 29.6 feet AMSL

Key Observation Point Information County: Washington Town: Narragansett

State: Rhode Island Location: Aquidneck Island **Latitude, Longitude:** 41.36309° N, 71.48100° W Direction of View (Center): Southeast (143.7°) Field of View: 124° x 55°

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: National Register Historic Site, Point Judith State Scenic Area

- 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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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)		
Revolution Wind	2023	12 MW	102	102	18.2	37.5		

