# Revolution Wind

Powered by Ørsted & Eversource

**Appendix A: Revolution Wind Cumulative Visual Simulations** 

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

**Existing Conditions** 

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.



# **Environmental Data** Date Taken: 9/10/2017

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

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

- existing light sources.
- 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.

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°

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 Scenic Area

Photosimulation Size: 66" 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



Bishop and Clerks

**Key Observation Point Context** 







# Revolution Wind

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**Appendix A: 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)

# **Environmental Data**

Date Taken: 9/10/2017 Temperature: 61°F Humidity: 93% Visibility: >10 miles Wind Direction: North-Northwest Wind Speed: 6 mph Conditions Observed: Fair

# **Camera Information**

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

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

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.



# 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°

## 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 Scenic Area

Photosimulation Size: 66" 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

perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum potential visibility of the proposed

# 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

### Key Observation Point Context Bishop and Clerks Key Observation Point Cone of View Nantucket Sound / Wind Turbine Generator Fully Visible Platform Screened Martha's Vineyard Mid-Tower Screened Nacelle Screened Rhode Island $\oplus$ Not Visible Sound Offshore Substations Not Visible Nantucket Island Visible South Fork lock Island Sound 6 Vineyard Wind North Block Isla • • • • Napeague Bay





Revolution

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**Appendix A: 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)

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

Wind



# **Environmental Data** Date Taken: 9/10/2017

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

**Camera Information** 

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

- Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of existing light sources.
- 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. three-dimensional (3D) model of the island.

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°

## 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 Scenic Area

Photosimulation Size: 66" 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

• 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

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

# 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
Revolution Wind	2023	12 MW	102	102	15.2	37.2

### **Key Observation Point Context** ▲Bishop and Clerks Key Observation Point Cone of View Nantucket Sound / Wind Turbine Generator Fully Visible Platform Screened Martha's Vineyard Mid-Tower Screened Nacelle Screened Rhode Island ↔ Not Visible Sound Offshore Substations Not Visible Nantucket Island Visible •••=•• Revolution Wind . . . . . . South Fork . . . . . . Vineyard Wind North Block Isl • • <mark>• = • • • /</mark> • • • • • • • Napeague Bay





Revolution

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**Appendix A: Revolution Wind Cumulative Visual Simulations** 

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Including Revolution Wind

# **Environmental Data**

Date Taken: 9/10/2017 Temperature: 61°F Humidity: 93% Visibility: >10 miles Wind Direction: North-Northwest Wind Speed: 6 mph Conditions Observed: Fair

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

Notes:

- existing light sources.
- WTG, this degree of atmospheric perspective is not applied to the photosimulations. three-dimensional (3D) model of the island.

Wind



# 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°

# 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 Scenic Area

Photosimulation Size: 66" 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

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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

# **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
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	4	41	48.0	48.8
New England Wind Phase 2	2024	19 MW	58	79	43.1	50.7
Sunrise Wind	2024	15 MW	123	123	16.9	38.2
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	134	185	33.0	45.0







Revolution Wind

Powered by Ørsted & Eversource

**Appendix A: Revolution Wind Cumulative Visual Simulations** 

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Excluding Revolution Wind

# **Environmental Data**

Date Taken: 9/10/2017 Temperature: 61°F Humidity: 93% Visibility: >10 miles Wind Direction: North-Northwest Wind Speed: 6 mph Conditions Observed: Fair

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

Notes:

- existing light sources.
- WTG, this degree of atmospheric perspective is not applied to the photosimulations. three-dimensional (3D) model of the island.



# 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°

### 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 Scenic Area

Photosimulation Size: 66" 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

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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	19.0	24.0
Vineyard Wind North	2023	14 MW	0	69	NA	NA
New England Wind Phase 1	2024	16 MW	4	41	48.0	48.8
New England Wind Phase 2	2024	19 MW	58	79	43.1	50.7
Sunrise Wind	2024	15 MW	123	123	16.9	38.2
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	134	185	33.0	45.0







Revolution

Powered by Ørsted & Eversource

**Appendix A: Revolution Wind Cumulative Visual Simulations** 

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Revolution Wind Without Other Foreseeable Future Changes

Simulation Size: 66" in width by 29.3" in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

Wind



## **Environmental Data** Date Taken: 9/10/2017

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

**Camera Information** 

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

- existing light sources.
- WTG, this degree of atmospheric perspective is not applied to the photosimulations. three-dimensional (3D) model of the island.

# 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°

# 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 Scenic Area

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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	102	102	15.2	37.2

Bishop and Clerks

Nantucket Island

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### Key Observation Point Context Key Observation Point Cone of View Nantucket Sound / Wind Turbine Generator Fully Visible Platform Screened Martha's Vineyard Mid-Tower Screened Nacelle Screened Rhode Island ↔ Not Visible Sound Offshore Substations Not Visible • • • • Visible . · · · · · · Revolution Wind ••••••• A Block Island Sound . Block Isla

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