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

MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

**Existing Conditions** 

Simulation Size: 66" 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.



### **Environmental Data**

Date Taken: 9/11/2021 Temperature: 68°F Humidity: 81% Visibility: >10 miles Wind Direction: Southwest 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: 145.5 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: Dukes Town: Aquinnah State: Massachusetts Location: Martha's Vineyard Latitude, Longitude: 41.34730° N, 70.83690° W Direction of View (Center): South (189.7°) Field of View: 124° x 55°

Visual Resources Landscape Similarity Zone: Coastal Bluff User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark

• 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

Key Observation Point Context ▲Bishop and Clerks Key Observation Point Cone of View Nantucket Sound Vineyard Sound Martha's Vineyard Rhode Island Sound Nantucket Island 116 Middle Shoal Rock Block Island Sound

Block Island Napeague Bay 50 58



Key Observation Point Location



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# Revolution

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

### MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

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

Wind



### **Environmental Data** Date Taken: 9/11/2021 Wind Direction: Southwest

### **Camera Information** Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels

Temperature: 68°F

Visibility: >10 miles

Wind Speed: 9 mph

Conditions Observed: Fair

Humidity: 81%

Lens Focal Length: 50 mm Camera Height: 145.5 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: Dukes Town: Aquinnah

State: Massachusetts Location: Martha's Vineyard Latitude, Longitude: 41.34730° N, 70.83690° W Direction of View (Center): South (189.7°) Field of View: 124° x 55°

### 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	22.2	26.3
Vineyard Wind North	2023	14 MW	69	69	24.0	32.9

Visual Resources

Landscape Similarity Zone: Coastal Bluff

User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark

• 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

• 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 Nantucket Sound Wind Turbine Generator Fully Visible Platform Screened Martha's Vineyard Mid-Tower Screened Nacelle Screened Rhode Island Sound $\oplus$ Not Visible Offshore Substations Not Visible Nantucket Island ■ Visible South Fork Block Island Sound Vineyard Wind North Block Island • • • • • • • Napeague Bay . . . . . . . . . . •••• 000.000000 50



Key Observation Point Location Key Observation Point
Cone of View

Great Round Shoal Channel

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

### MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

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

### Temperature: 68°F Humidity: 81% Visibility: >10 miles Wind Direction: Southwest 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: 145.5 feet AMSL Notes:

Environmental Data Date Taken: 9/11/2021

- structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.
- existing light sources.
- WTG, this degree of atmospheric perspective is not applied to the photosimulations. three-dimensional (3D) model of the island.



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Key Observation Point Information County: Dukes Town: Aquinnah State: Massachusetts Location: Martha's Vineyard

Latitude, Longitude: 41.34730° N, 70.83690° W Direction of View (Center): South (189.7°) Field of View: 124° x 55°

### Visual Resources

Landscape Similarity Zone: Coastal Bluff

User Group: Local Resident, Tourist/Vacationers Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark

• 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

• 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

• 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	22.2	26.3
Vineyard Wind North	2023	14 MW	69	69	24.0	32.9
Revolution Wind	2023	12 MW	102	102	13.7	27.4







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

MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

Visual Simulation: Full Lease Build-out Including Revolution Wind

## Environmental Data Date Taken: 9/11/2021

**Temperature:** 68°F Humidity: 81% Visibility: >10 miles Wind Direction: Southwest 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: 145.5 feet AMSL Notes:

- Photosimulation Size: 66" in width by 29.3" in height. Ima
- The potential number of WTGs and OSSs screened from structure height. This analysis does not consider the scre
- Offshore Substation location and dimensions are based of for all foundation positions. OSS positions and dimensions Nighttime photosimulations are digitally adjusted from dayti existing light sources.
- The existing WTGs associated with the Block Island Wind F 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.



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County: Dukes Town: Aquinnah	Project	Year of Development		Potential Number of WTGs & OSSs Visible*	Total
Key Observation Point Information	Reasonably	Foreseeable Pro	piects Repr	esented in Vi	sual

State: Massachusetts	
Location: Martha's Vineyard	South Fork Wind F
Latitude, Longitude: 41.34730° N, 70.83690° W	
Direction of View (Center): South (189.7°)	Vineyard Wind No
Field of View: 124° x 55°	
	Revolution Win
Visual Resources	New England W
Landscape Similarity Zone: Coastal Bluff	Phase 1
User Group: Local Resident, Tourist/Vacationers	New England W
Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark	Phase 2
	Sunrise Wind
mages should be viewed from 15 inches in order to obtain the proper perspective.	Mayflower Win
om view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum creening effects of intervening vegetation, structures, and topography.	
ed on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used	Liberty Wind
sions considered in this photosimulation are subject to potential modification.	
daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of	Beacon Wind
Vind 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

### al 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	22.2	26.3
Vineyard Wind North	2023	14 MW	69	69	24.0	32.9
Revolution Wind	2023	12 MW	102	102	13.7	27.4
New England Wind Phase 1	2024	16 MW	41	41	26.1	34.8
New England Wind Phase 2	2024	19 MW	79	79	26.4	41.6
Sunrise Wind	2024	15 MW	123	123	21.6	35.3
Mayflower Wind	2024	12 MW	80	149	41.1	47.7
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	136	157	33.0	44.6
Bay State Wind	2025-2030	12 MW	182	185	17.5	44.2





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

### MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

Visual Simulation: Full Lease Build-out Excluding Revolution Wind

Environmental Data Date Taken: 9/11/2021

**Temperature:** 68°F Humidity: 81% Visibility: >10 miles Wind Direction: Southwest 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: 145.5 feet AMSL Notes:

- Photosimulation Size: 66" in width by 29.3" in height. Image
- The potential number of WTGs and OSSs screened from vi structure height. This analysis does not consider the screer Offshore Substation location and dimensions are based on p
- for all foundation positions. OSS positions and dimensions Nighttime photosimulations are digitally adjusted from dayting existing light sources.
- The existing WTGs associated with the Block Island Wind F 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	Reasonably Foreseeable Projects Represented in Visua

County: Dukes	
Town: Aquinnah	Project
State: Massachusetts	
Location: Martha's Vineyard	South Fork Wind Fa
Latitude, Longitude: 41.34730° N, 70.83690° W	
Direction of View (Center): South (189.7°)	Vineyard Wind Nor
Field of View: 124° x 55°	
	New England Win Phase 1
Visual Resources	
Landscape Similarity Zone: Coastal Bluff	New England Win Phase 2
User Group: Local Resident, Tourist/Vacationers	
Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head	Sunrise Wind
West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark	
	Mayflower Wind
ages should be viewed from 15 inches in order to obtain the proper perspective.	
n view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum	Liberty Wind
eening effects of intervening vegetation, structures, and topography.	
on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used	Beacon Wind
ns considered in this photosimulation are subject to potential modification. aytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of	
	Bay State Wind
nd Farm are 16.9 miles from KOP LI04. In the daytime photosimulation, the WTGs appear faint due to atmospheric	

### I 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	22.2	26.3
Vineyard Wind North	2023	14 MW	69	69	24.0	32.9
New England Wind Phase 1	2024	16 MW	41	41	26.1	34.8
New England Wind Phase 2	2024	19 MW	79	79	26.4	41.6
Sunrise Wind	2024	15 MW	123	123	21.6	35.3
Mayflower Wind	2024	12 MW	80	149	41.1	47.7
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	136	157	33.0	44.6
Bay State Wind	2025-2030	12 MW	182	185	17.5	44.2

• 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 Location



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

MV07 Night: Aquinnah Overlook, Aquinnah, Massachusetts

Visual Simulation: Revolution Wind Without Other Foreseeable Future Changes



Camera: Canon EOS 5D Mark IV Resolution: 30.4 Megapixels Lens Focal Length: 50 mm Camera Height: 145.5 feet AMSL Notes:

Environmental Data Date Taken: 9/11/2021

**Temperature:** 68°F Humidity: 81%

Visibility: >10 miles

Wind Speed: 9 mph

**Camera Information** 

Wind Direction: Southwest

Conditions Observed: Fair

- 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: Dukes Town: Aquinnah State: Massachusetts Location: Martha's Vineyard

Latitude, Longitude: 41.34730° N, 70.83690° W Direction of View (Center): South (189.7°) Field of View: 124° x 55°

### Visual Resources

Landscape Similarity Zone: Coastal Bluff User Group: Local Resident, Tourist/Vacationers

Aesthetic Resource: Gay Head Aquinnah Shops Area State Historic Area, Gay Head West Tisbury Unit State Scenic Area, Gay Head Cliffs National Natural Landmark

• 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

• 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)
Revolution Wind	2023	12 MW	102	102	13.7	27.4

### Key Observation Point Context Bishop and Clerks Key Observation Point Cone of View Nantucket Sound Wind Turbine Generator Fully Visible Vineyard Sound Platform Screened Martha's Vineyard Mid-Tower Screened Nacelle Screened Rhode Island Sound $\oplus$ Not Visible Offshore Substations Not Visible Nantucket Island ■ Visible Revolution Wind Block Island Sound Block Island Napeague Bay 50



