

H4 Winter

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In response to stakeholder interest regarding visual impacts from potential future renewable energy development within the New York Call Area, BOEM has undertaken a project to develop visual simulations of a hypothetical wind energy facility on the Outer Continental Shelf offshore Long Island, New York. The purpose of this study is to characterize the potential onshore visibility of offshore wind turbines from locations along the coasts of New York and New Jersey under different seasons, times of day and weather conditions.

BOEM is not currently considering the approval of a specific project within the Call Area; therefore, the visual simulations illustrate a *hypothetical project*. The *hypothetical project* was designed to represent a commercially-scaled and technically feasible scenario that is consistent with industry trends regarding operating capacity, wind turbine size, spacing and configuration. Per BOEM's guidelines, project-specific visual simulations would be prepared by a lessee and submitted with its construction and operations plan. See *Guidelines for Information Requirements for a Renewable Energy Construction and Operations Plan* at <http://www.boem.gov/National-and-Regional-Guidelines-for-Renewable-Energy-Activities/>.

A series of accurate and realistic visual simulations of a hypothetical, commercial-scale wind energy facility within the New York Call Area were created from photographs and video taken at sixteen Key Observation Points located in New York and New Jersey. The simulations were further informed by a meteorological conditions assessment and a GIS-based viewshed analysis. A detailed description of the methods and supporting information used to create the visual simulations is provided in the Compendium Report accompanying the simulations.

Visual Simulation Overview

This appendix includes visual simulations of the Hypothetical Project prepared using photographs taken at each Key Observation Point. A cover sheet is provided for each Key Observation Point and includes:

- Base Photographic Documentation
- Camera Information
- Sun and Weather Information
- Turbine Information
- Image Preview
- Context Map
- Viewing Instructions

The cover sheet is then followed by an existing conditions photograph (showing the view with no turbines simulated); simulations of the turbines under different weather and lighting

conditions; and a wireframe simulation. Wireframe images depict turbines placed to scale within the image and with proper coloration but with no meteorological conditions or lighting added. Consequently, the turbines in those images appear more distinct and apparent than they might when viewed under actual weather and lighting conditions. These images overstate visibility, as such conditions are unlikely in a real-world scenario; however, they serve to orient the viewer to the location of the simulated turbines and illustrate the scale and height of the turbines from the distance of the specific Key Observation Point.

Viewing Instructions

Viewing instructions are provided on each simulation. The visibility of the turbines on images projected on a computer screen will depend on the scale at which the image is being viewed. Simply put, zooming in on the image may overstate visibility. Conversely, zooming out or observing the image at full-screen will minimize the visibility of turbines. To view the simulations properly, adjust the zoom until the scale bar on the simulation measures four inches. Scaling the simulation in this manner will ensure that turbines – and other natural features in the view frame – are portrayed at an accurate scale and will ensure the field of view is similar to that experienced by an observer standing at the KOP. Once property scaled the images should be viewed from a distance of 11.2 inches.

Meteorological Visibility

Understanding the distinction between the visibility metrics provided in Section 2.0 of this report and the actual expected visibility of the turbines illustrated by the photosimulations is central to this visibility assessment. “Maximum Visibility” and “Average Predicted Visibility” refer to the definition of visibility provided in Section 2.0 of the Compendium Report: “the greatest distance at which an observer can just see a black object viewed against the horizon sky” (Malm 1999). “Average Visibility” metrics refer to the average distance at which a black object would be visible on the horizon based on the relationship between visibility and humidity. Please see Section 2 for more information.

Actual Visibility

As discussed in Section 7 of the Compendium Report, the actual visibility of the offshore wind turbines as shown in the photo simulations will depend on a variety of factors, such as contrast of the turbines against the backdrop of the horizon, existing lighting and how it falls on the turbines, the degree of atmospheric haze, and observer characteristics. The simulations depict the appearance of light grey turbines under proper lighting and meteorological conditions (e.g., haze), consistent with those recorded at the time the photograph was taken. There is thus very little visual contrast between the color and distinction in form of the turbines as they “blend” with the color of the horizon. Please see Section 7 for more information.

KOP: Otis Pike Fire Island High Dune Wilderness - Visitor Center

Season: Winter
 Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 10:33
 GPS Longitude: -72.866598
 GPS Latitude: 40.732304
 Viewpoint Elevation (ft): 16.35
 Camera Height (ft): 5.41
 Camera Heading (°): 222

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 158.5722008
 Sun Elevation: 23.91492801
 Lighting Angle (On Turbines): Left-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 26.2
 Average Predicted Visibility (NM): 16.7
 Wave Height (ft): 0.7
 Period (Seconds): 10
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 40

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



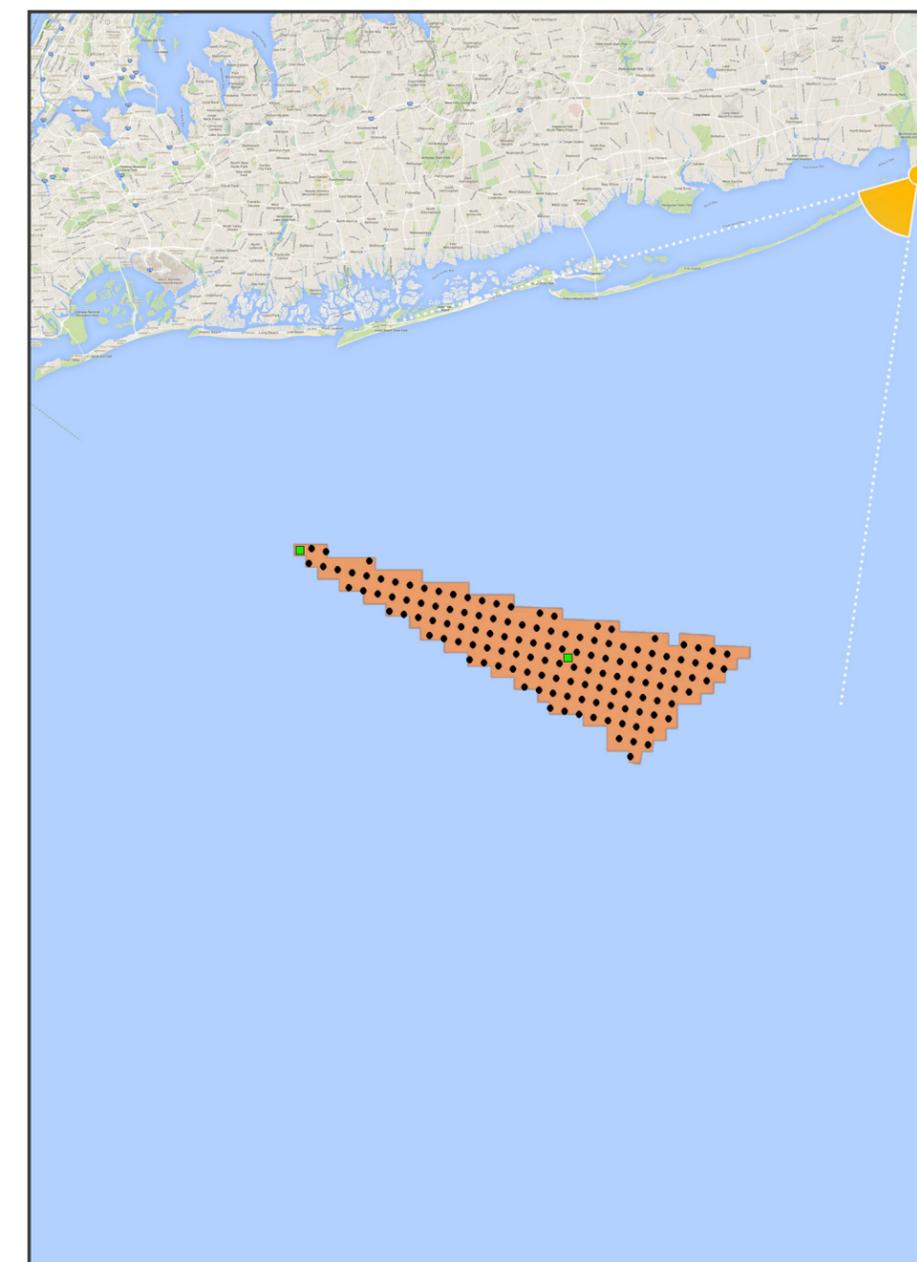
Turbine Information

Distance to Nearest Turbine (NM): 28.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

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For On-Screen Display:
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Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
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For On-Screen Display:
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Scale bar to be 4 inches wide (102 mm)

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Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Otis Pike Fire Island High Dune Wilderness - Visitor Center

Season: Winter
 Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 13:02
 GPS Longitude: -73.218543
 GPS Latitude: 40.632373
 Viewpoint Elevation (ft): 16.35
 Camera Height (ft): 5.41
 Camera Heading (°): 217

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 196.0989025
 Sun Elevation: 25.35178937
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 26.4
 Average Predicted Visibility (NM): 16.7
 Wave Height (ft): 0.7
 Period (Seconds): 10
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 39

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



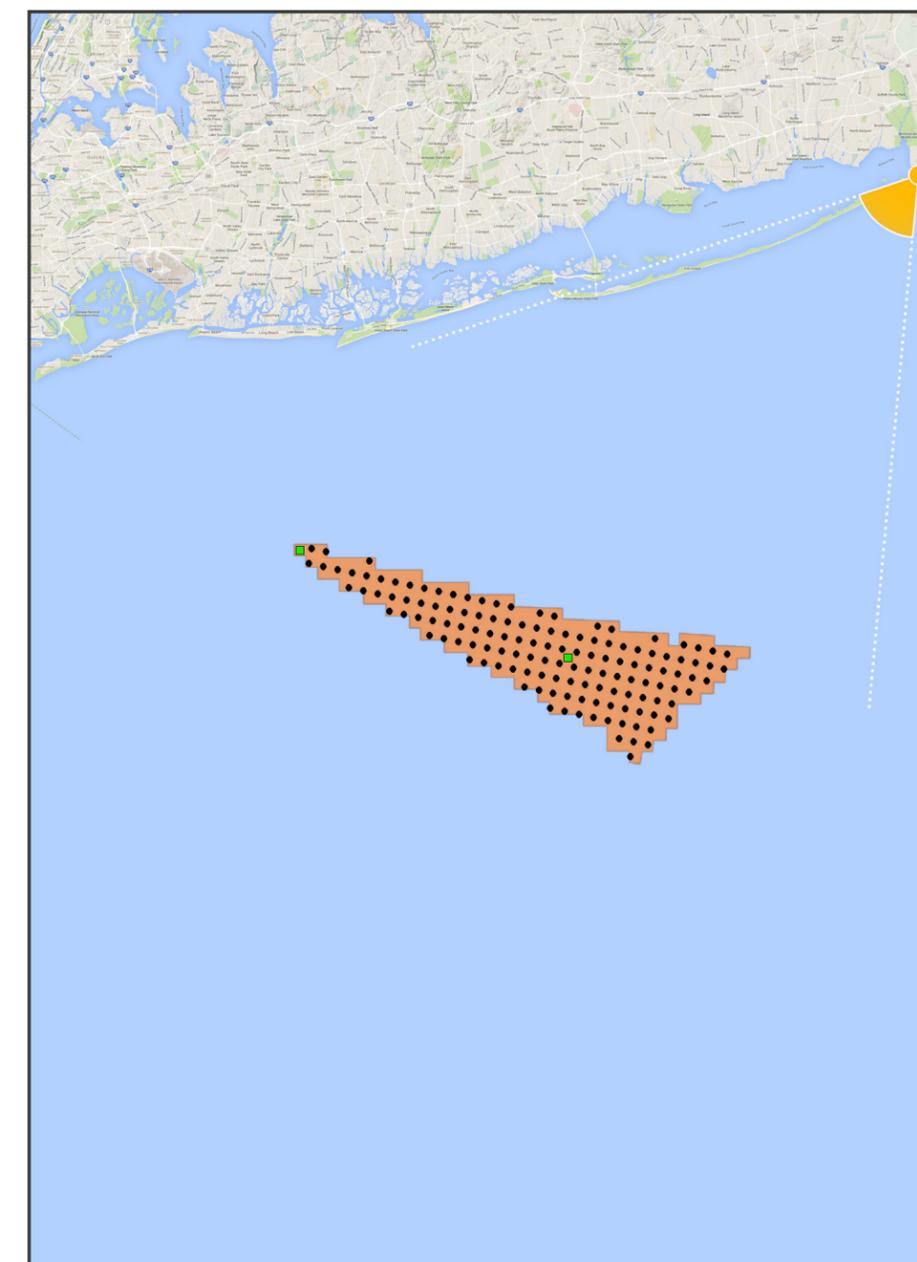
Turbine Information

Distance to Nearest Turbine (NM): 28.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



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For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Otis Pike Fire Island High Dune Wilderness - Visitor Center
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 13:54
 GPS Longitude: -72.866598
 GPS Latitude: 40.732304
 Viewpoint Elevation (ft): 16.35
 Camera Height (ft): 5.41
 Camera Heading (°): 219

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 208.856895
 Sun Elevation: 21.38691772
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 25.4
 Average Predicted Visibility (NM): 16.7
 Wave Height (ft): 0.9
 Period (Seconds): 10
 Temperature (°F): 21
 Temperature (°C): -6
 Humidity (%): 44

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



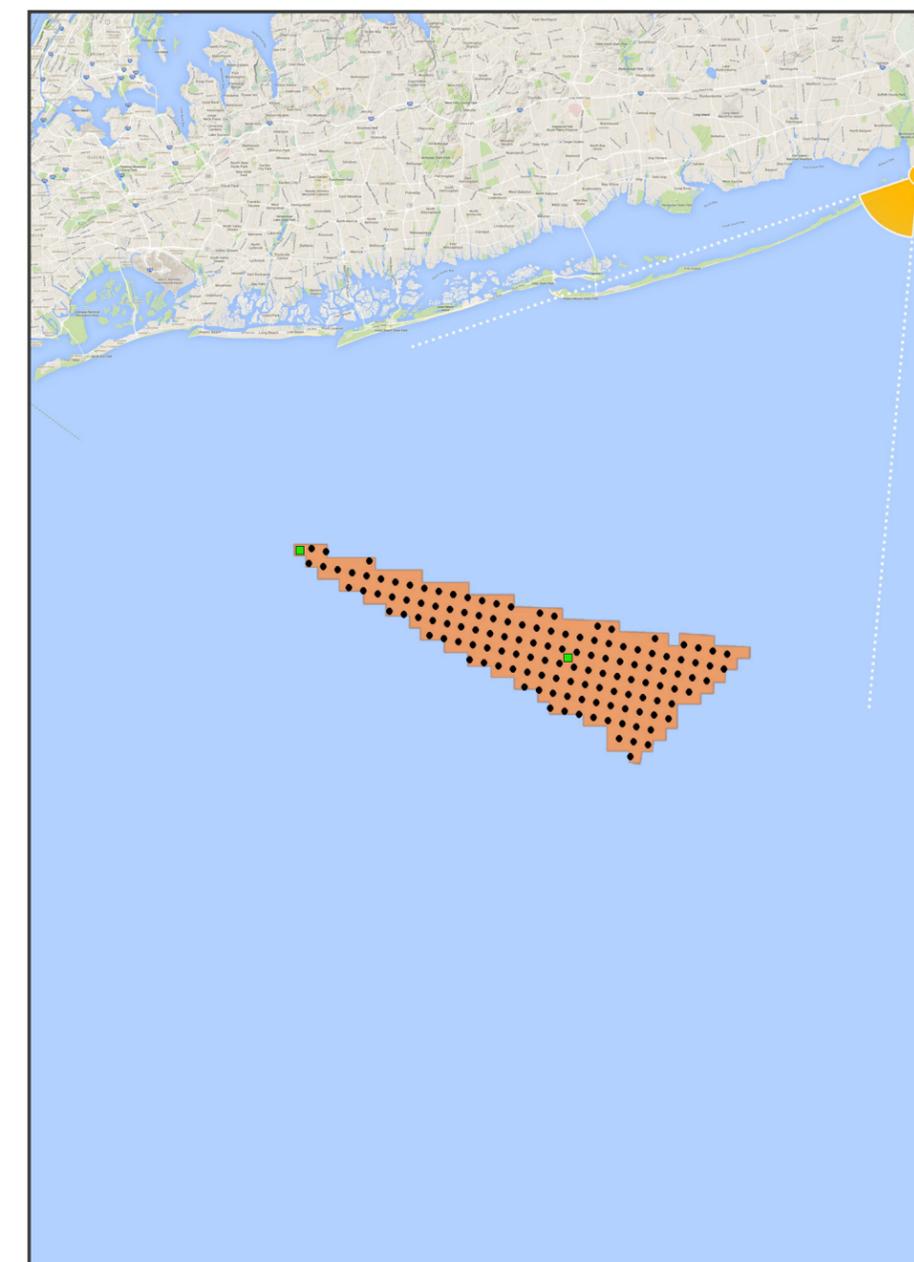
Turbine Information

Distance to Nearest Turbine (NM): 28.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



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Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jones Beach
 Season: Winter
 Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 09:45
 GPS Longitude: -73.507291
 GPS Latitude: 40.59421
 Viewpoint Elevation (ft): 16.28
 Camera Height (ft): 5.41
 Camera Heading (°): 147

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 145.9211003
 Sun Elevation: 20.18048264
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 23.2
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 1.9
 Period (Seconds): 7
 Temperature (°F): 25
 Temperature (°C): -4
 Humidity (%): 53

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



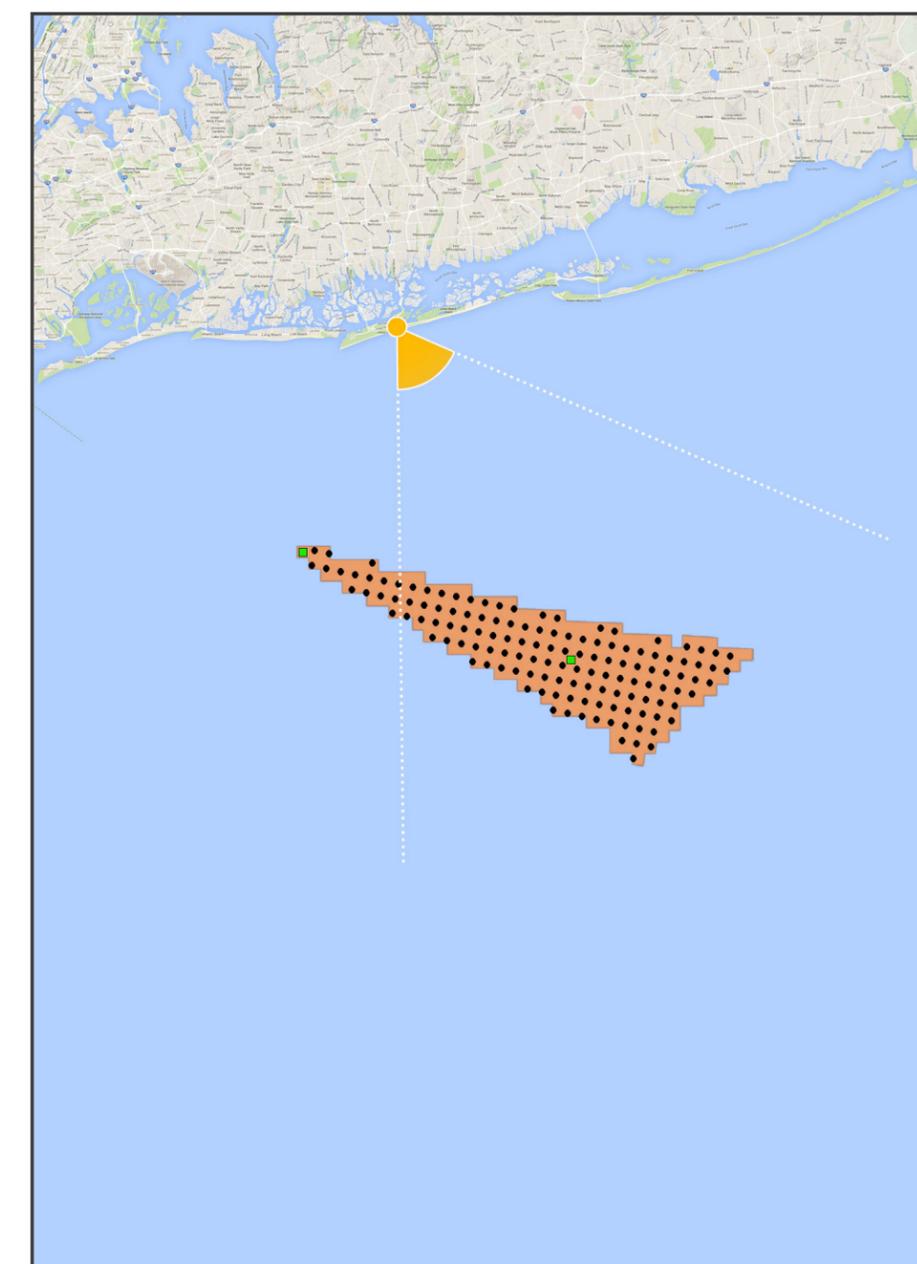
Turbine Information

Distance to Nearest Turbine (NM): 12.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jones Beach
 Season: Winter
 Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 11:47
 GPS Longitude: -73.507291
 GPS Latitude: 40.59421
 Viewpoint Elevation (ft): 16.28
 Camera Height (ft): 5.41
 Camera Heading (°): 147

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 176.5604386
 Sun Elevation: 26.98402049
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 26.2
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.8
 Period (Seconds): 7
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 40

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



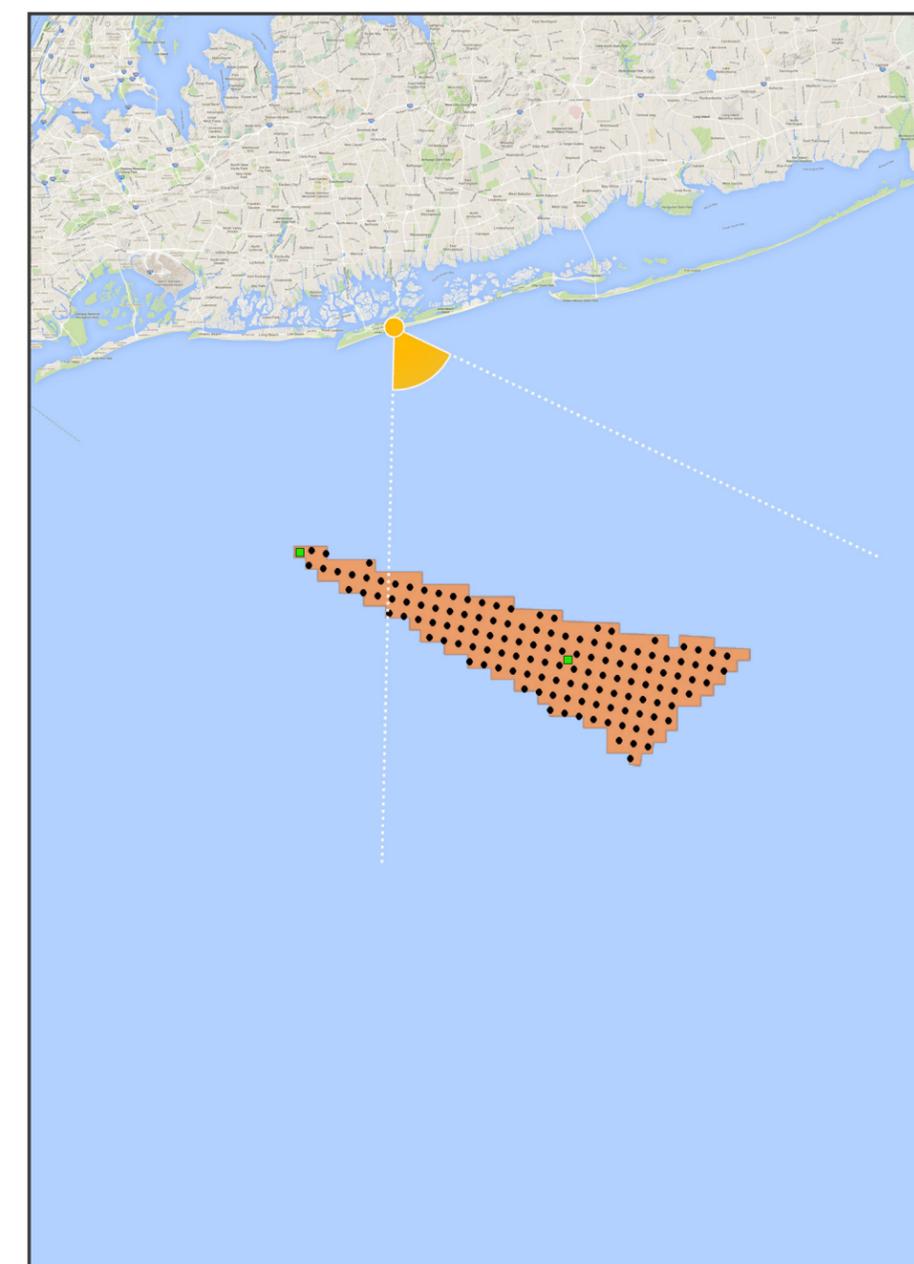
Turbine Information

Distance to Nearest Turbine (NM): 12.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

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Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jones Beach
 Season: Winter
 Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 15:03
 GPS Longitude: -73.507291
 GPS Latitude: 40.59421
 Viewpoint Elevation (ft): 16.28
 Camera Height (ft): 5.41
 Camera Heading (°): 147

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 223.0207055
 Sun Elevation: 14.09942406
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 1.6
 Period (Seconds): 6
 Temperature (°F): 21
 Temperature (°C): -6
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



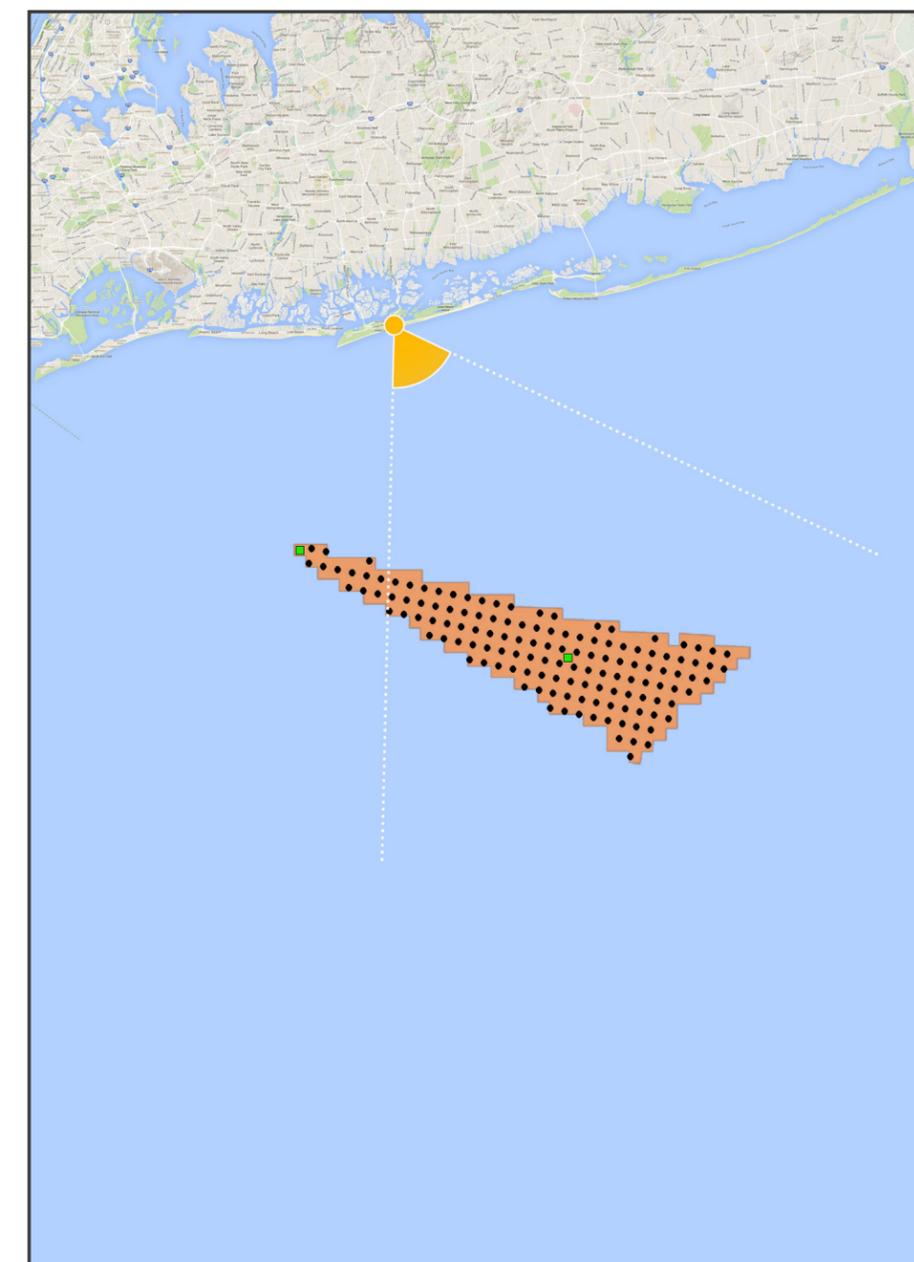
Turbine Information

Distance to Nearest Turbine (NM): 12.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



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Scale bar to be 4 inches wide (102 mm)

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For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Green-Wood Cemetery
 Season: Winter
 Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/14/2015
 Time (24hr): 09:22
 GPS Longitude: -73.985403
 GPS Latitude: 40.655679
 Viewpoint Elevation (ft): 190.05
 Camera Height (ft): 5.41
 Camera Heading (°): 119

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 140.421711
 Sun Elevation: 17.40549522
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Overcast
 Maximum Visibility (NM): 21.1
 Average Predicted Visibility (NM): 19.7
 Wave Height (ft): N/A
 Period (Seconds): N/A
 Temperature (°F): 25
 Temperature (°C): -4
 Humidity (%): 60

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



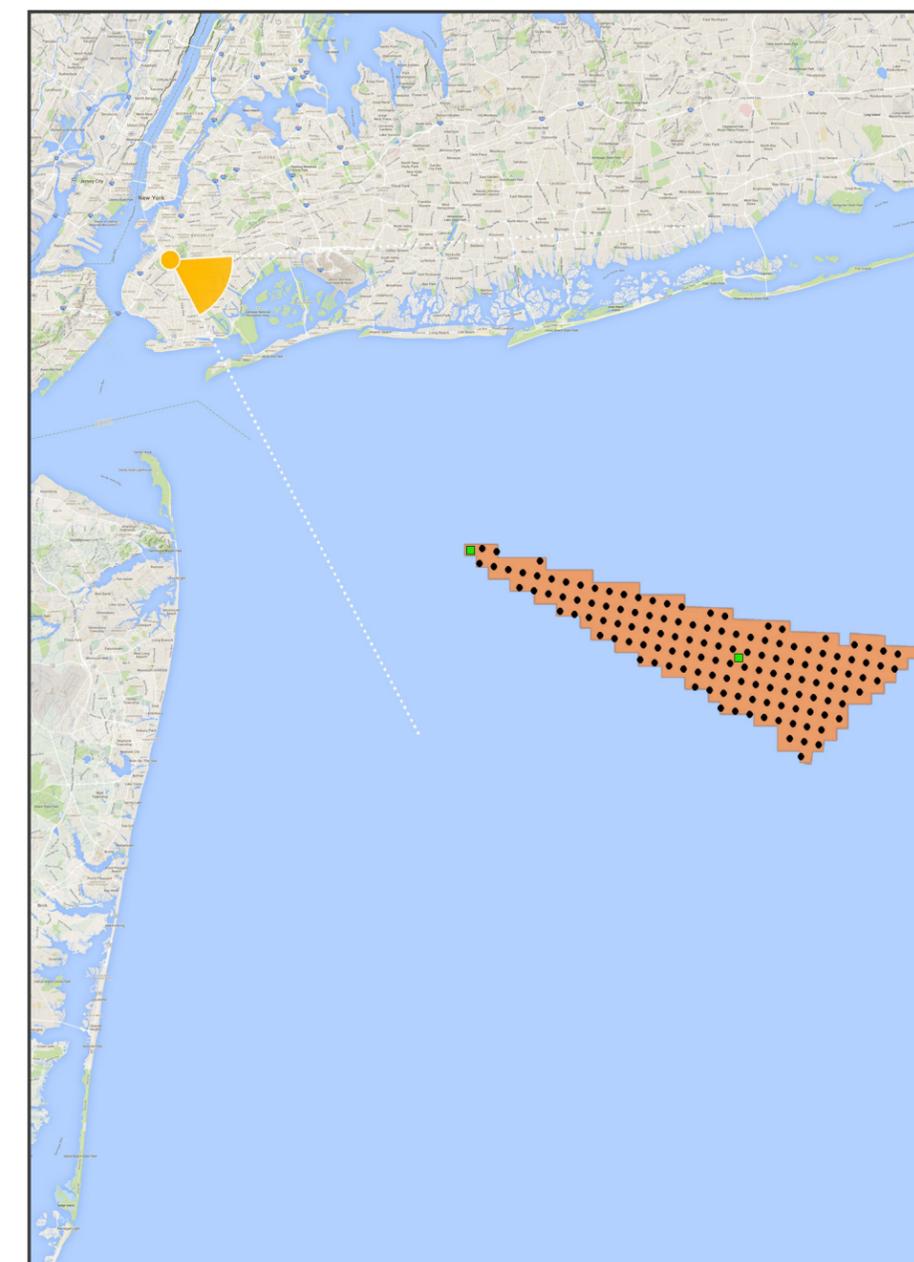
Turbine Information

Distance to Nearest Turbine (NM): 23.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



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 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
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For On-Screen Display:
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For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Green-Wood Cemetery

Season: Winter

Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	1/14/2015
Time (24hr):	10:52
GPS Longitude:	-73.985403
GPS Latitude:	40.655679
Viewpoint Elevation (ft):	190.05
Camera Height (ft):	5.41
Camera Heading (°):	119

Camera Information

Camera Make & Model:	Canon EOS 5D Mark III
Camera Sensor Size:	36mm x 24mm
Lens Make & Model:	EF28mm f/1.8 USM
Lens Focal Length:	28mm
Field of View:	65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth:	161.1057398
Sun Elevation:	25.78559947
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Overcast
Maximum Visibility (NM):	21.1
Average Predicted Visibility (NM):	19.7
Wave Height (ft):	N/A
Period (Seconds):	N/A
Temperature (°F):	30
Temperature (°C):	-1
Humidity (%):	60

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



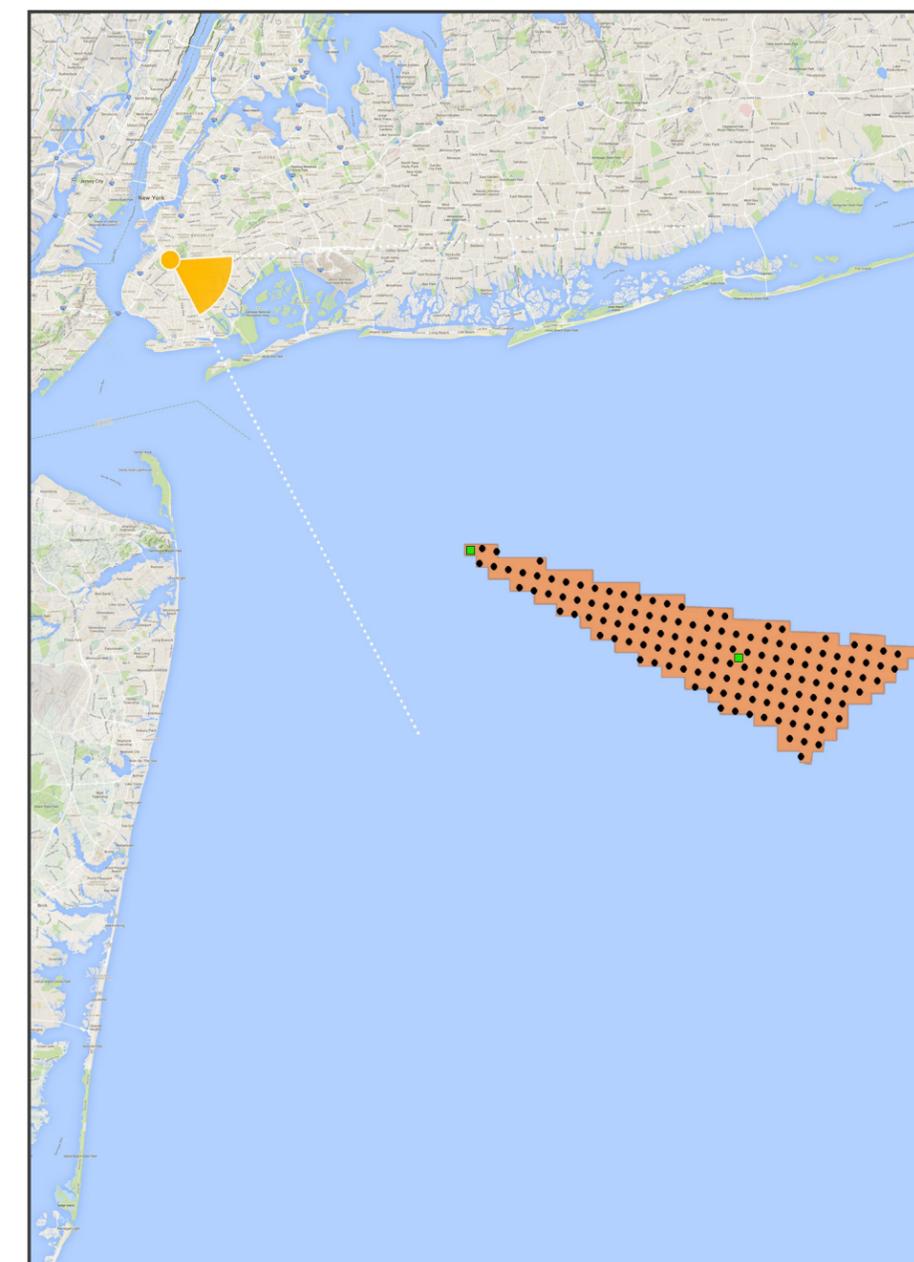
Turbine Information

Distance to Nearest Turbine (NM):	23.5
Make & Model:	Senvion 6.2M 152
Number of Turbines:	134
Hub Height (ft):	328.1
Support Structure Height (ft):	25
Rotor Diameter (ft):	498.7
Total Height to Tip of Blade (ft):	577.4
Service Platform:	100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
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For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
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For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



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For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Green-Wood Cemetery
 Season: Winter
 Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 15:34
 GPS Longitude: -73.985403
 GPS Latitude: 40.655679
 Viewpoint Elevation (ft): 190.05
 Camera Height (ft): 5.41
 Camera Heading (°): 118

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

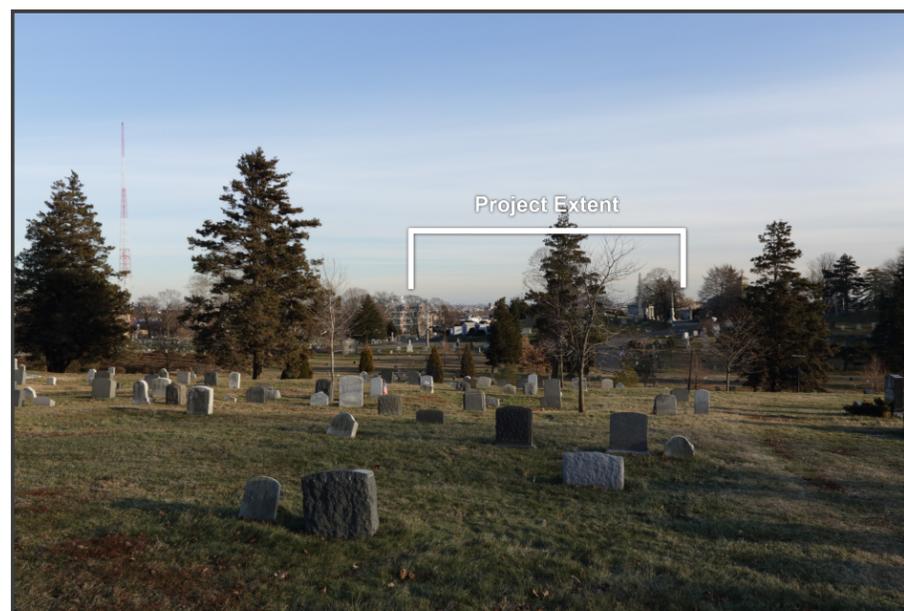
Sun And Weather Information

Sun Azimuth: 228.6929069
 Sun Elevation: 11.16253064
 Lighting Angle (On Turbines): Front-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 25.0
 Average Predicted Visibility (NM): 19.7
 Wave Height (ft): N/A
 Period (Seconds): N/A
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 46

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



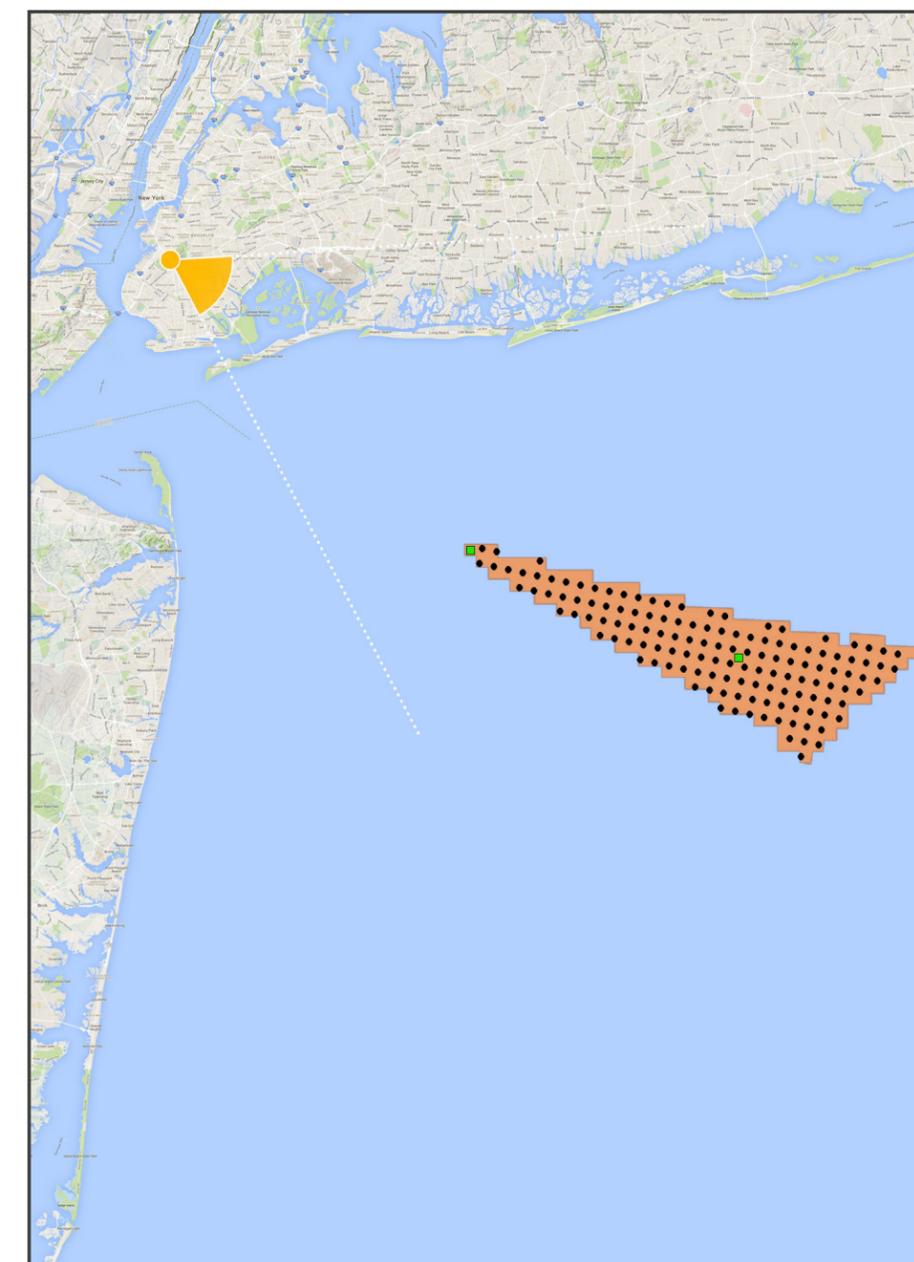
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Distance to Nearest Turbine (NM): 23.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jacob Riis Park
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/14/2015
 Time (24hr): 08:23
 GPS Longitude: -73.869745
 GPS Latitude: 40.565889
 Viewpoint Elevation (ft): 15.57
 Camera Height (ft): 5.41
 Camera Heading (°): 117

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 128.9803866
 Sun Elevation: 9.563473355
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Overcast
 Maximum Visibility (NM): 17.9
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 2
 Period (Seconds): 11
 Temperature (°F): 25
 Temperature (°C): -4
 Humidity (%): 69

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



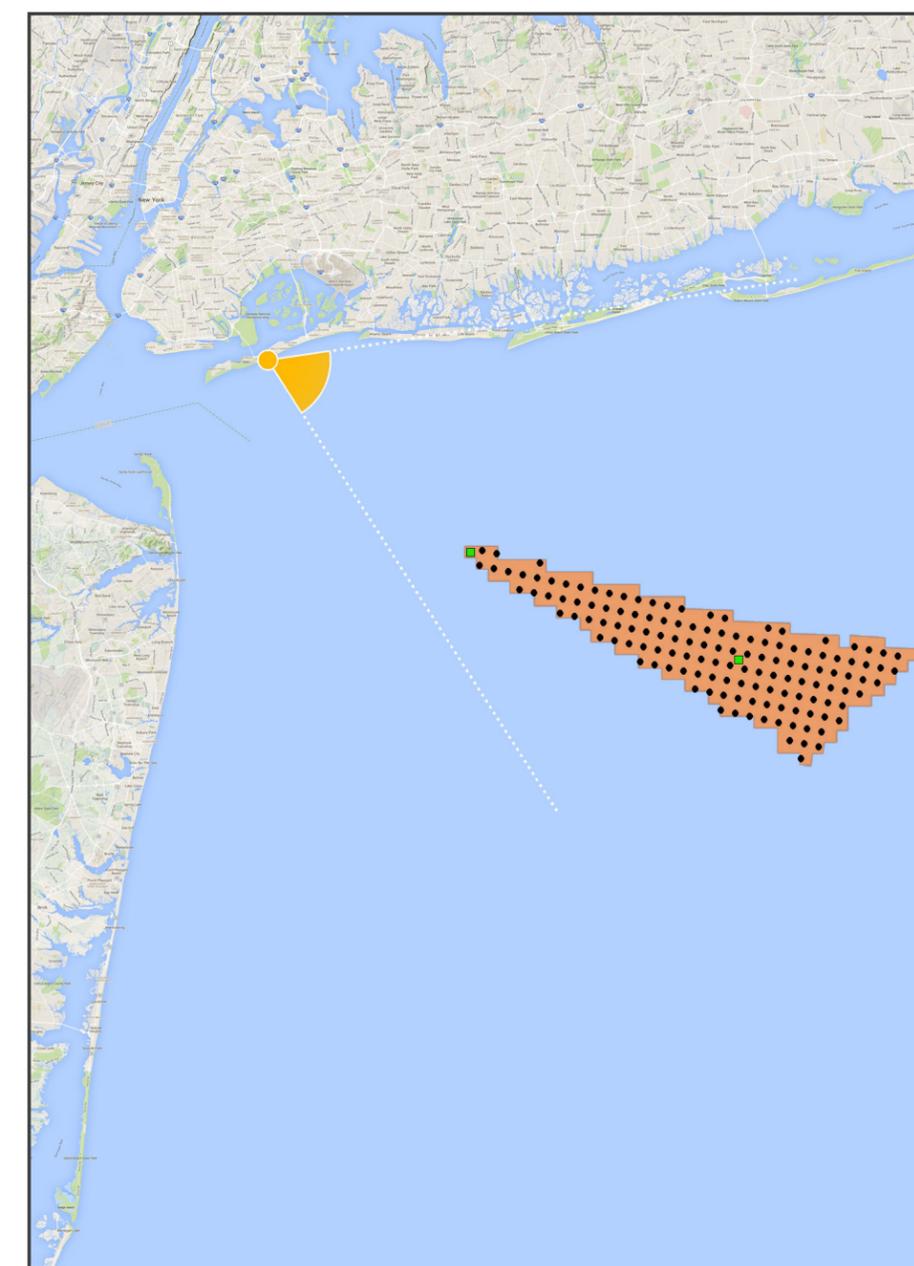
Turbine Information

Distance to Nearest Turbine (NM): 15.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jacob Riis Park
 Season: Winter
 Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 11:46
 GPS Longitude: -73.869745
 GPS Latitude: 40.565889
 Viewpoint Elevation (ft): 15.57
 Camera Height (ft): 5.41
 Camera Heading (°): 112

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 175.2305622
 Sun Elevation: 27.8455106
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 25.4
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 1.5
 Period (Seconds): 9
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 44

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



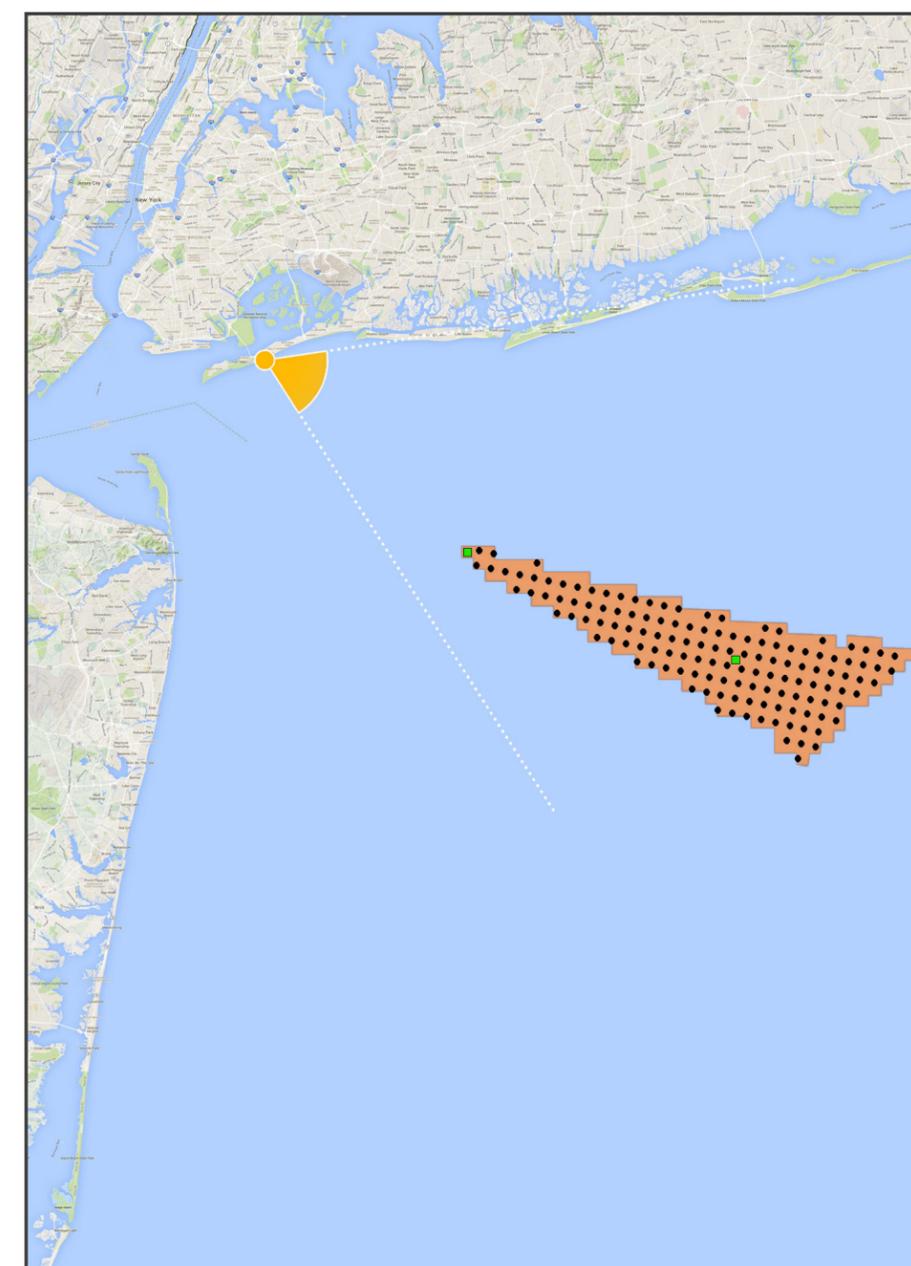
Turbine Information

Distance to Nearest Turbine (NM): 15.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map





Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Jacob Riis Park
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 14:10
 GPS Longitude: -73.869745
 GPS Latitude: 40.565889
 Viewpoint Elevation (ft): 15.57
 Camera Height (ft): 5.41
 Camera Heading (°): 117

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 211.4644394
 Sun Elevation: 21.44533144
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 26.8
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 1.6
 Period (Seconds): 9
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 37

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



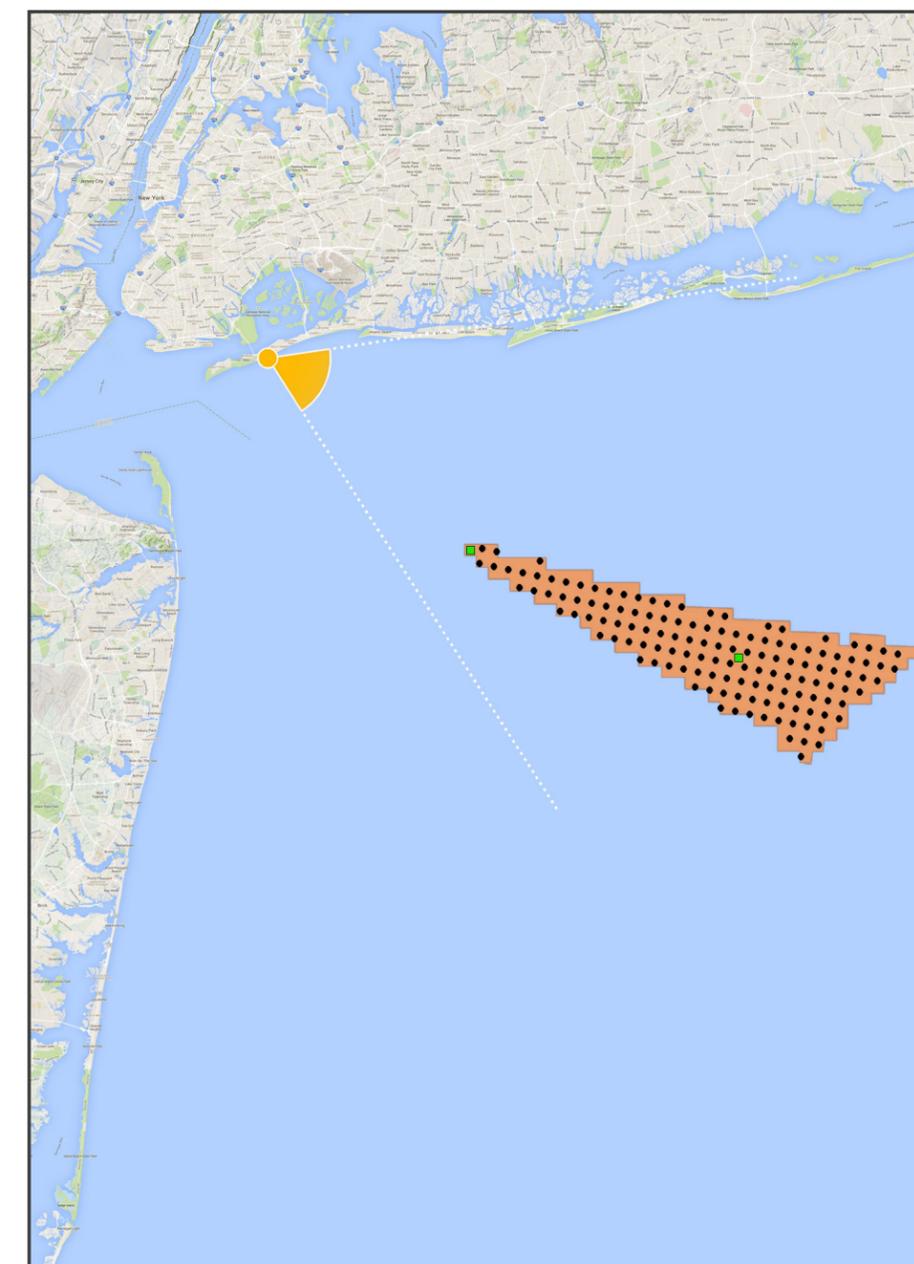
Turbine Information

Distance to Nearest Turbine (NM): 15.9
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Breezy Point
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/14/2015
 Time (24hr): 07:59
 GPS Longitude: -73.93107
 GPS Latitude: 40.547231
 Viewpoint Elevation (ft): 7.95
 Camera Height (ft): 5.41
 Camera Heading (°): 106

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 124.6636694
 Sun Elevation: 5.886866419
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Cloud
 Maximum Visibility (NM): 17.1
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 3
 Period (Seconds): 5
 Temperature (°F): 25
 Temperature (°C): -4
 Humidity (%): 71

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



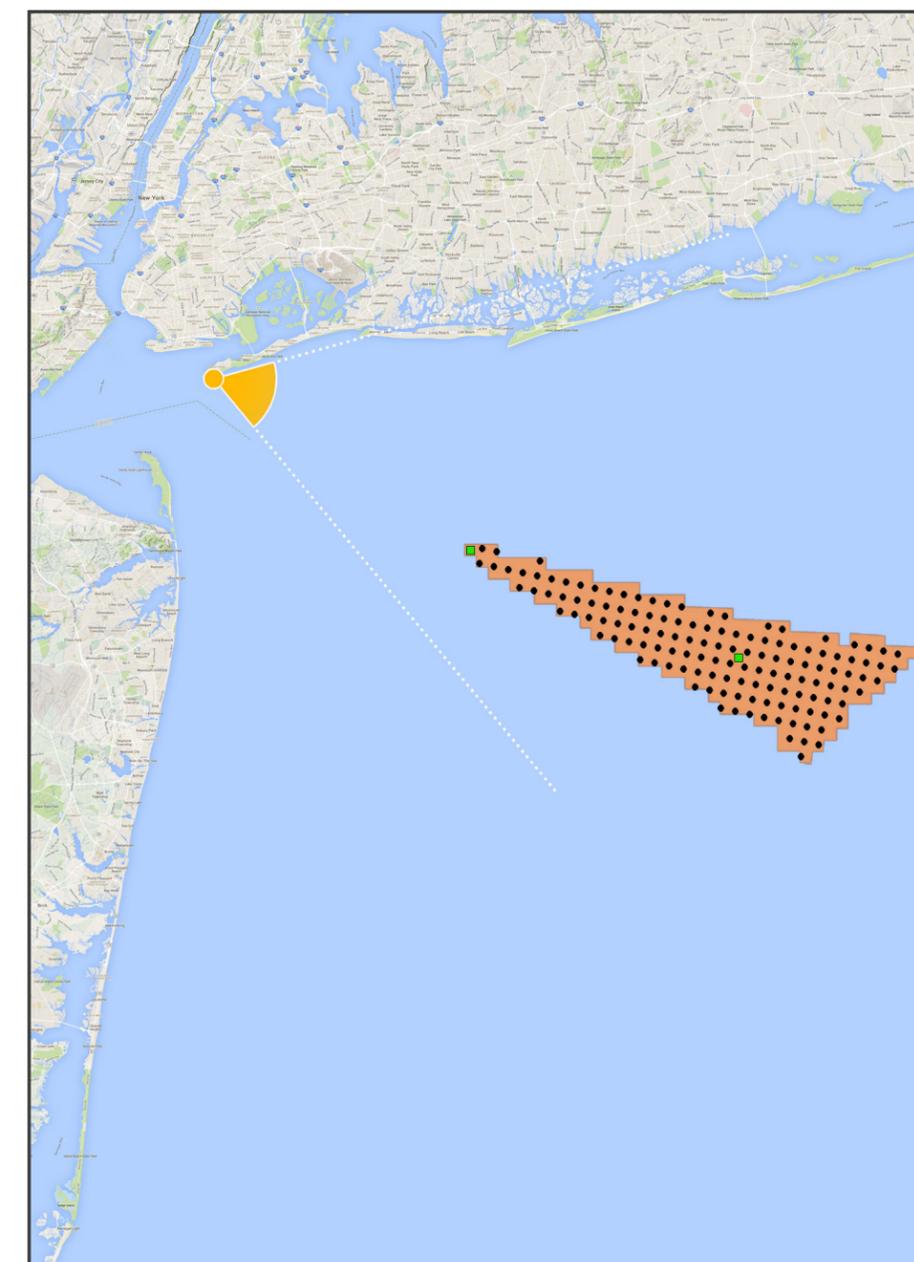
Turbine Information

Distance to Nearest Turbine (NM): 17.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Breezy Point
Season: Winter
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 11:09
 GPS Longitude: -73.93107
 GPS Latitude: 40.547231
 Viewpoint Elevation (ft): 7.95
 Camera Height (ft): 5.41
 Camera Heading (°): 107

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 165.5723177
 Sun Elevation: 26.67871914
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 24.8
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 1.9
 Period (Seconds): 5
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 47

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



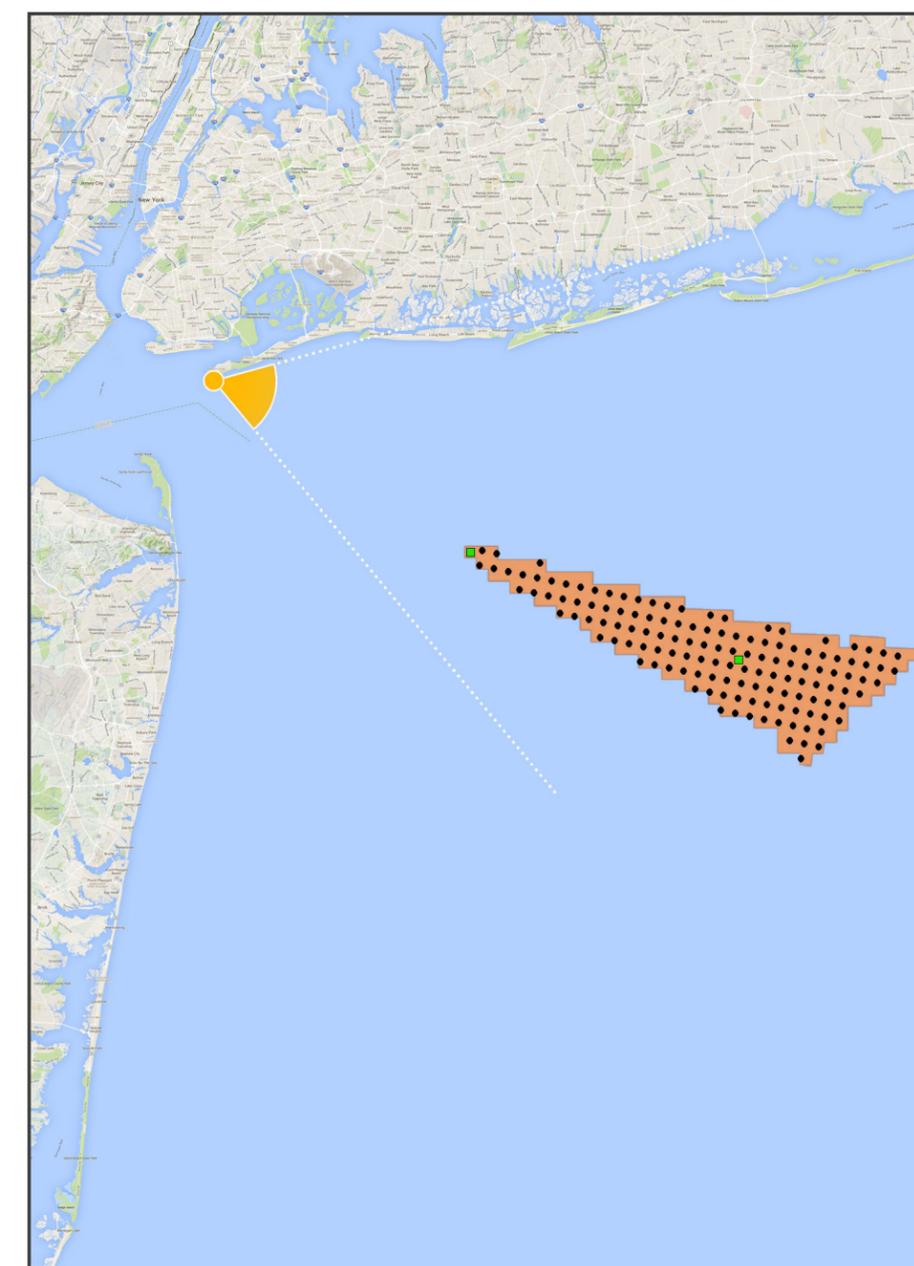
Turbine Information

Distance to Nearest Turbine (NM): 17.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Breezy Point
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/13/2015
 Time (24hr): 13:37
 GPS Longitude: -73.93107
 GPS Latitude: 40.547231
 Viewpoint Elevation (ft): 7.95
 Camera Height (ft): 5.41
 Camera Heading (°): 105

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

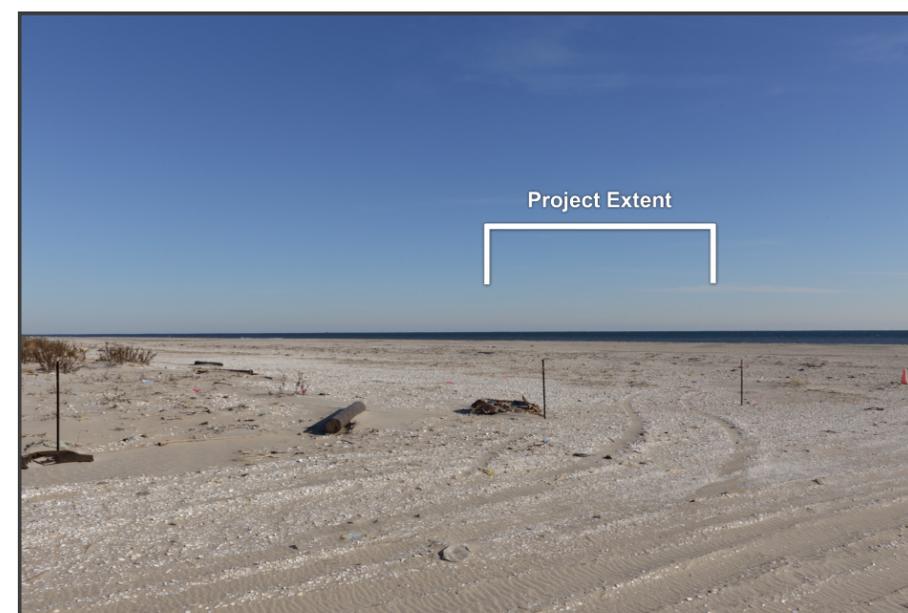
Sun And Weather Information

Sun Azimuth: 203.6913388
 Sun Elevation: 24.38269356
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 26.8
 Average Predicted Visibility (NM): 18.6
 Wave Height (ft): 1.5
 Period (Seconds): 9
 Temperature (°F): 23
 Temperature (°C): -5
 Humidity (%): 37

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



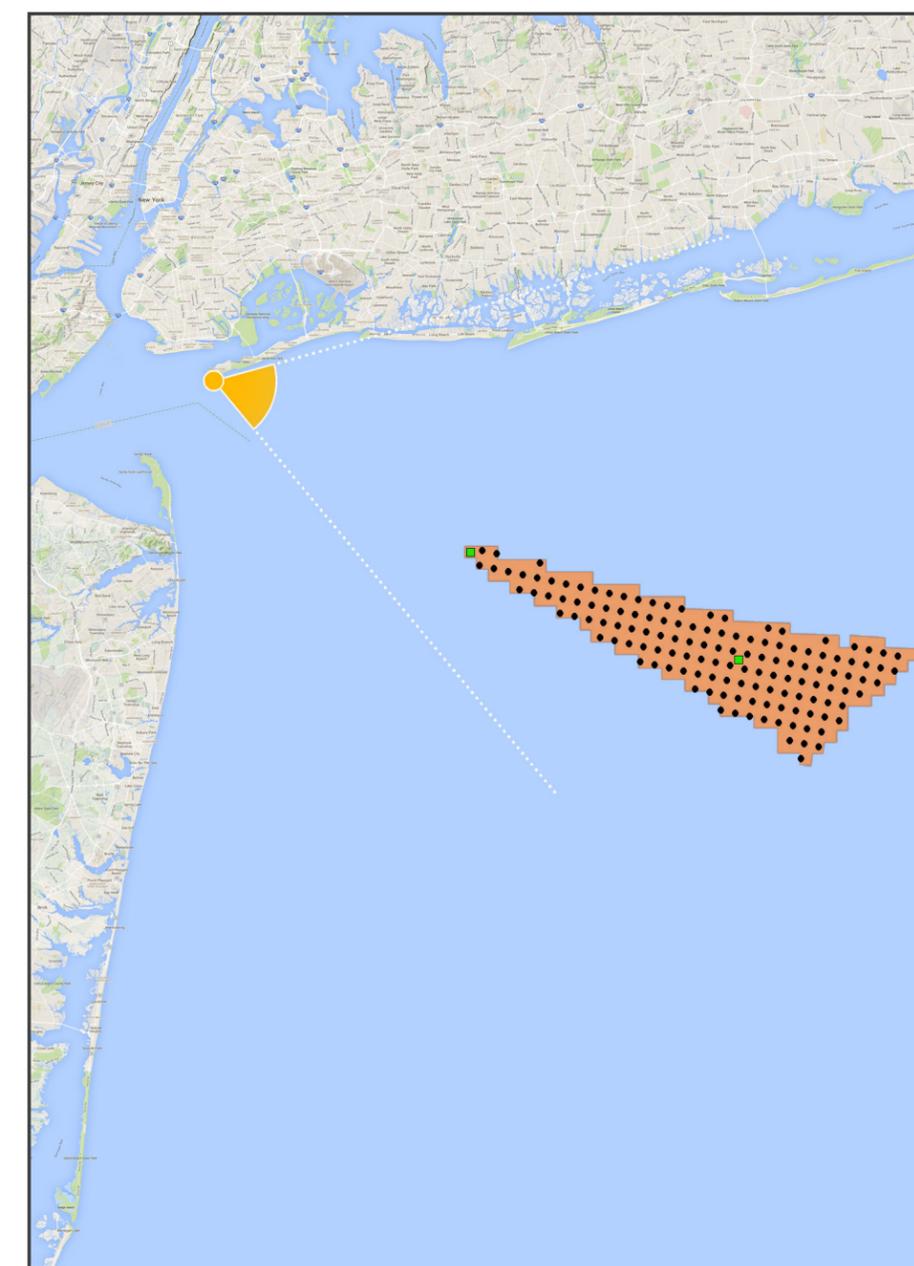
Turbine Information

Distance to Nearest Turbine (NM): 17.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Great Kills
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 10:38
 GPS Longitude: -74.129602
 GPS Latitude: 40.537553
 Viewpoint Elevation (ft): 16.62
 Camera Height (ft): 5.41
 Camera Heading (°): 119

Camera Information

Camera Make & Model: Canon EOS 1Ds Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 156.1398521
 Sun Elevation: 26.47589537
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.7
 Wave Height (ft): 1
 Period (Seconds): 9
 Temperature (°F): 36
 Temperature (°C): 2
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



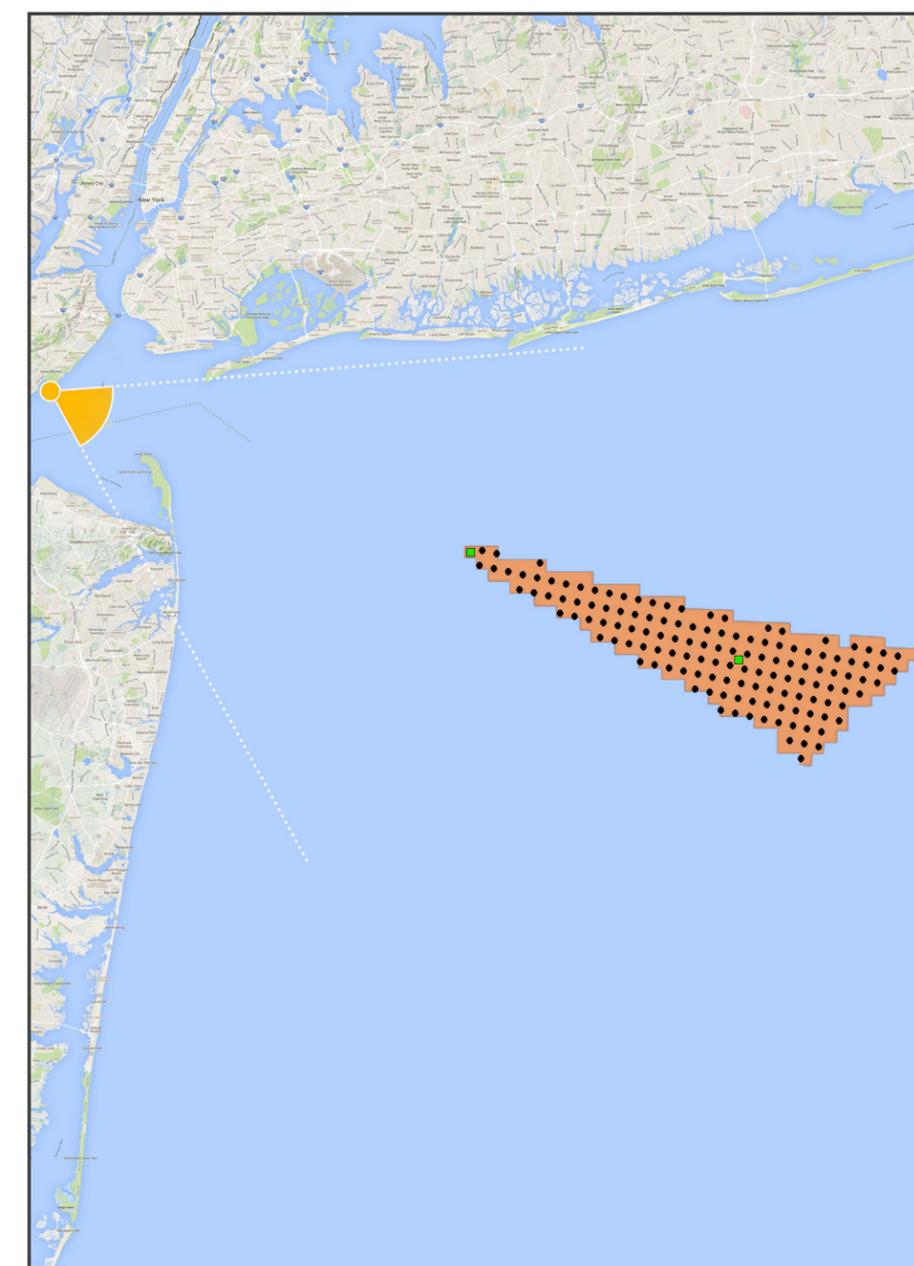
Turbine Information

Distance to Nearest Turbine (NM): 25.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Great Kills
Season: Winter
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 12:48
 GPS Longitude: -74.129602
 GPS Latitude: 40.537553
 Viewpoint Elevation (ft): 16.62
 Camera Height (ft): 5.41
 Camera Heading (°): 118

Camera Information

Camera Make & Model: Canon EOS 1Ds Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 190.7441377
 Sun Elevation: 29.36386649
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.7
 Wave Height (ft): 1
 Period (Seconds): 9
 Temperature (°F): 36
 Temperature (°C): 2
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



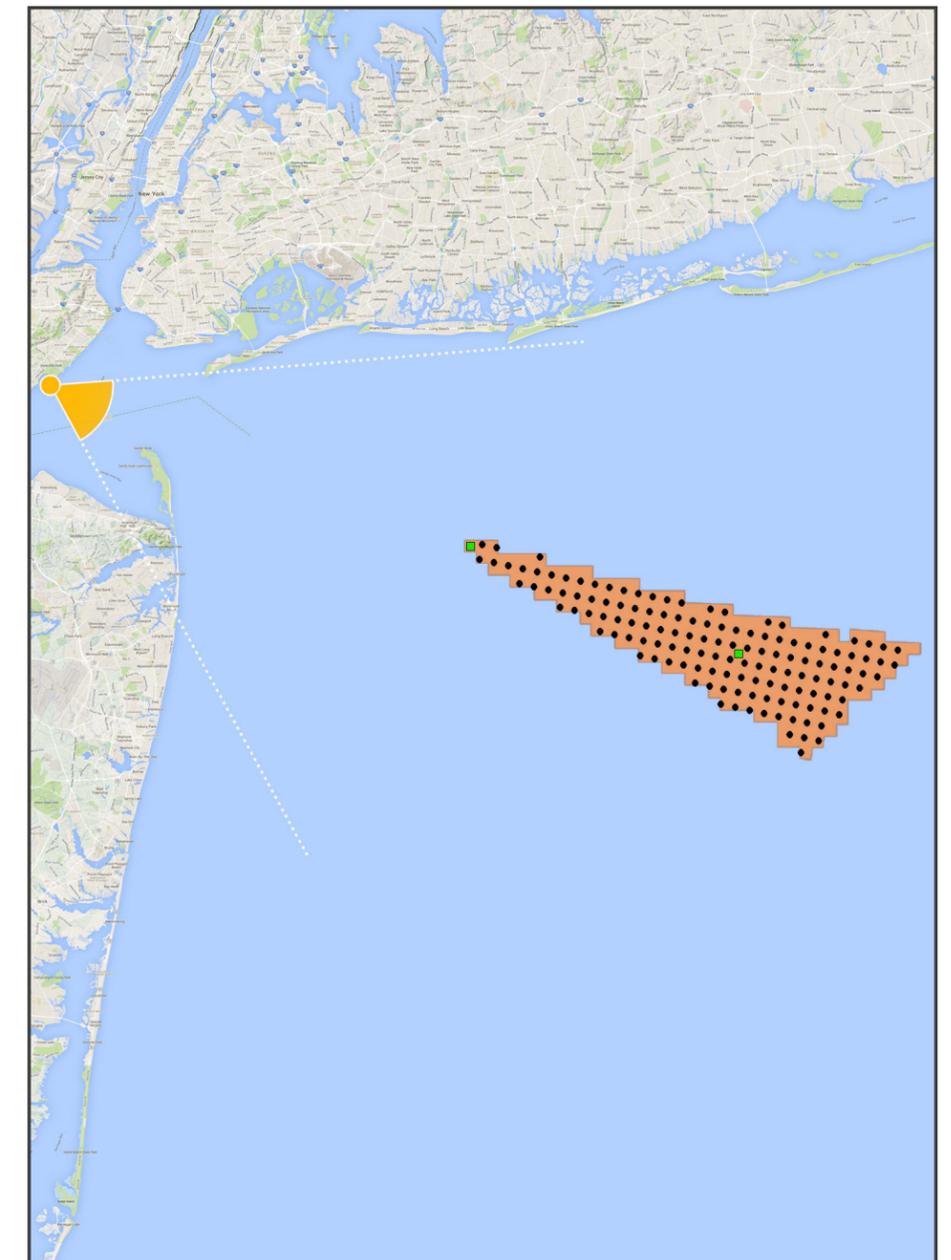
Turbine Information

Distance to Nearest Turbine (NM): 25.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Great Kills
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 14:20
 GPS Longitude: -74.129602
 GPS Latitude: 40.537553
 Viewpoint Elevation (ft): 16.62
 Camera Height (ft): 5.41
 Camera Heading (°): 119

Camera Information

Camera Make & Model: Canon EOS 1Ds Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 213.7606675
 Sun Elevation: 22.71934061
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 25.2
 Average Predicted Visibility (NM): 19.7
 Wave Height (ft): 1
 Period (Seconds): 8
 Temperature (°F): 37
 Temperature (°C): 3
 Humidity (%): 45

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



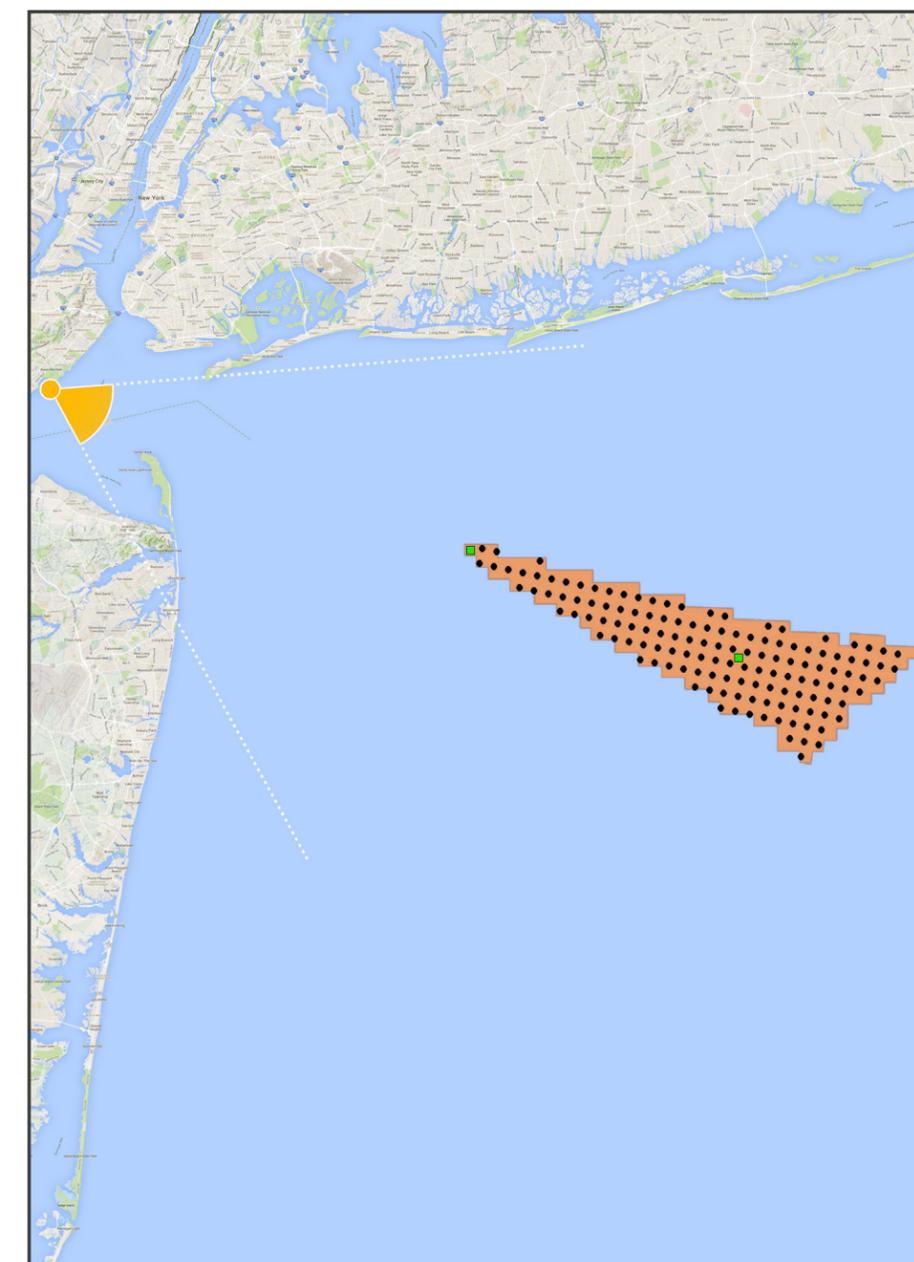
Turbine Information

Distance to Nearest Turbine (NM): 25.5
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map

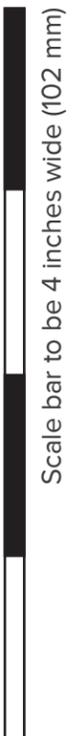


● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Sandy Hook North Beach
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 09:50
 GPS Longitude: -73.994414
 GPS Latitude: 40.468987
 Viewpoint Elevation (ft): 10.94
 Camera Height (ft): 5.41
 Camera Heading (°): 92

Camera Information

Camera Make & Model: Canon EOS 6D
 Camera Sensor Size: 35.8mm x 23.9mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 144.8610709
 Sun Elevation: 22.08081061
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 23.8
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 1.1
 Period (Seconds): 8
 Temperature (°F): 30
 Temperature (°C): -1
 Humidity (%): 51

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



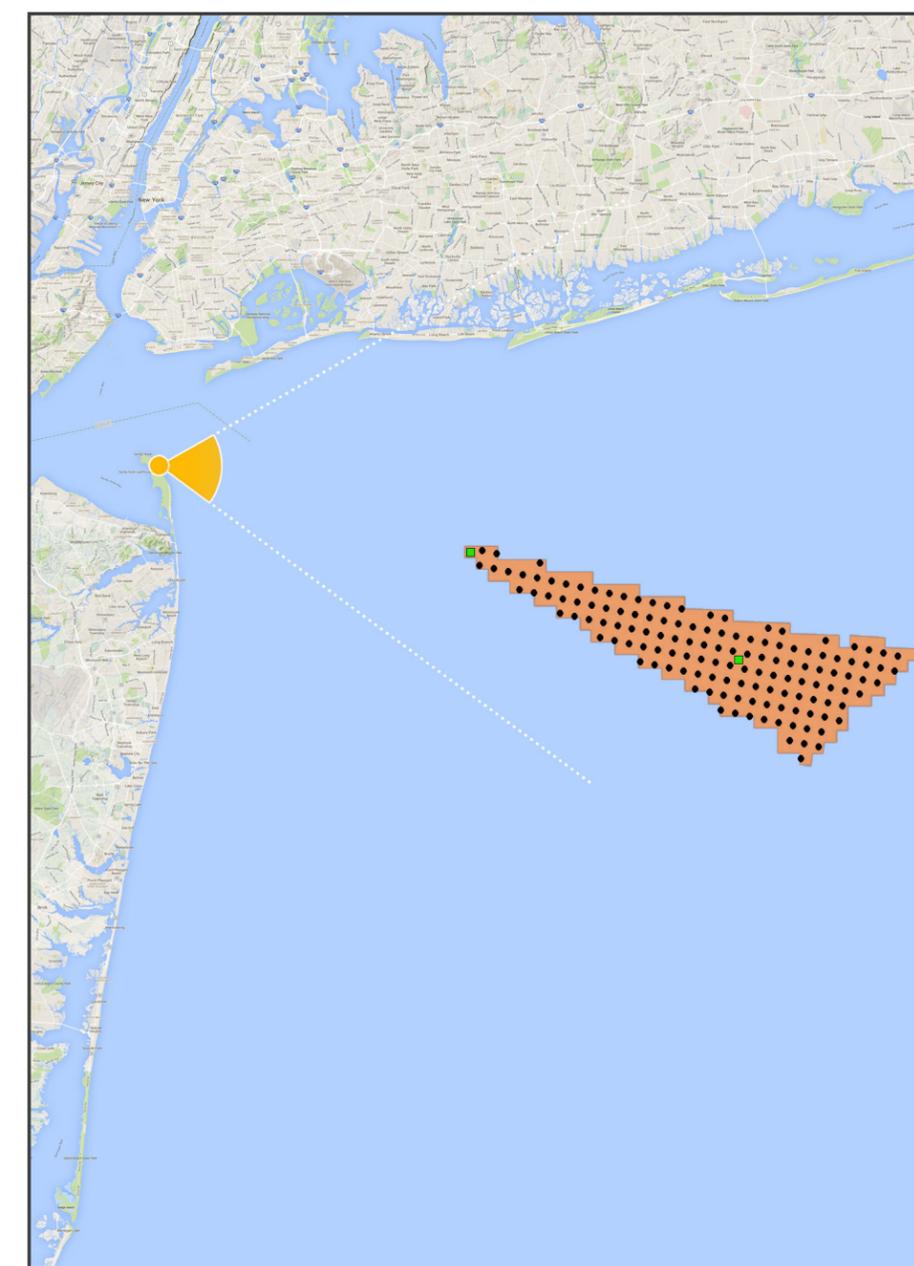
Turbine Information

Distance to Nearest Turbine (NM): 18.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Sandy Hook North Beach
 Season: Winter
 Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 11:42
 GPS Longitude: -73.994414
 GPS Latitude: 40.468987
 Viewpoint Elevation (ft): 10.94
 Camera Height (ft): 5.41
 Camera Heading (°): 90

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 172.9914822
 Sun Elevation: 29.82862049
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 1
 Period (Seconds): 9
 Temperature (°F): 36
 Temperature (°C): 2
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



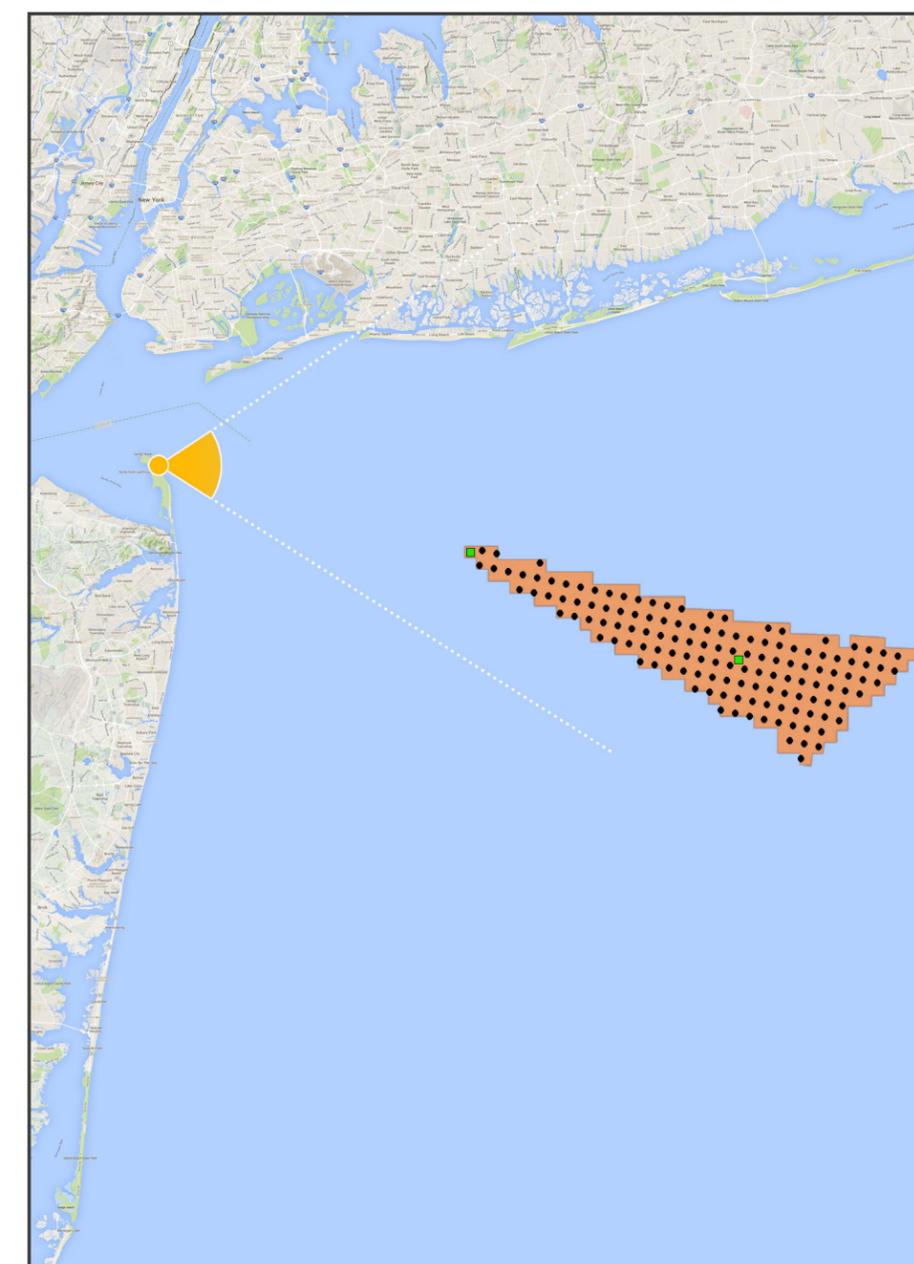
Turbine Information

Distance to Nearest Turbine (NM): 18.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Sandy Hook North Beach
 Season: Winter
 Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/23/2015
 Time (24hr): 13:41
 GPS Longitude: -73.994414
 GPS Latitude: 40.468987
 Viewpoint Elevation (ft): 10.94
 Camera Height (ft): 5.41
 Camera Heading (°): 94

Camera Information

Camera Make & Model: Canon EOS 1Ds Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 204.6058991
 Sun Elevation: 26.34038649
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 1
 Period (Seconds): 8
 Temperature (°F): 37
 Temperature (°C): 3
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



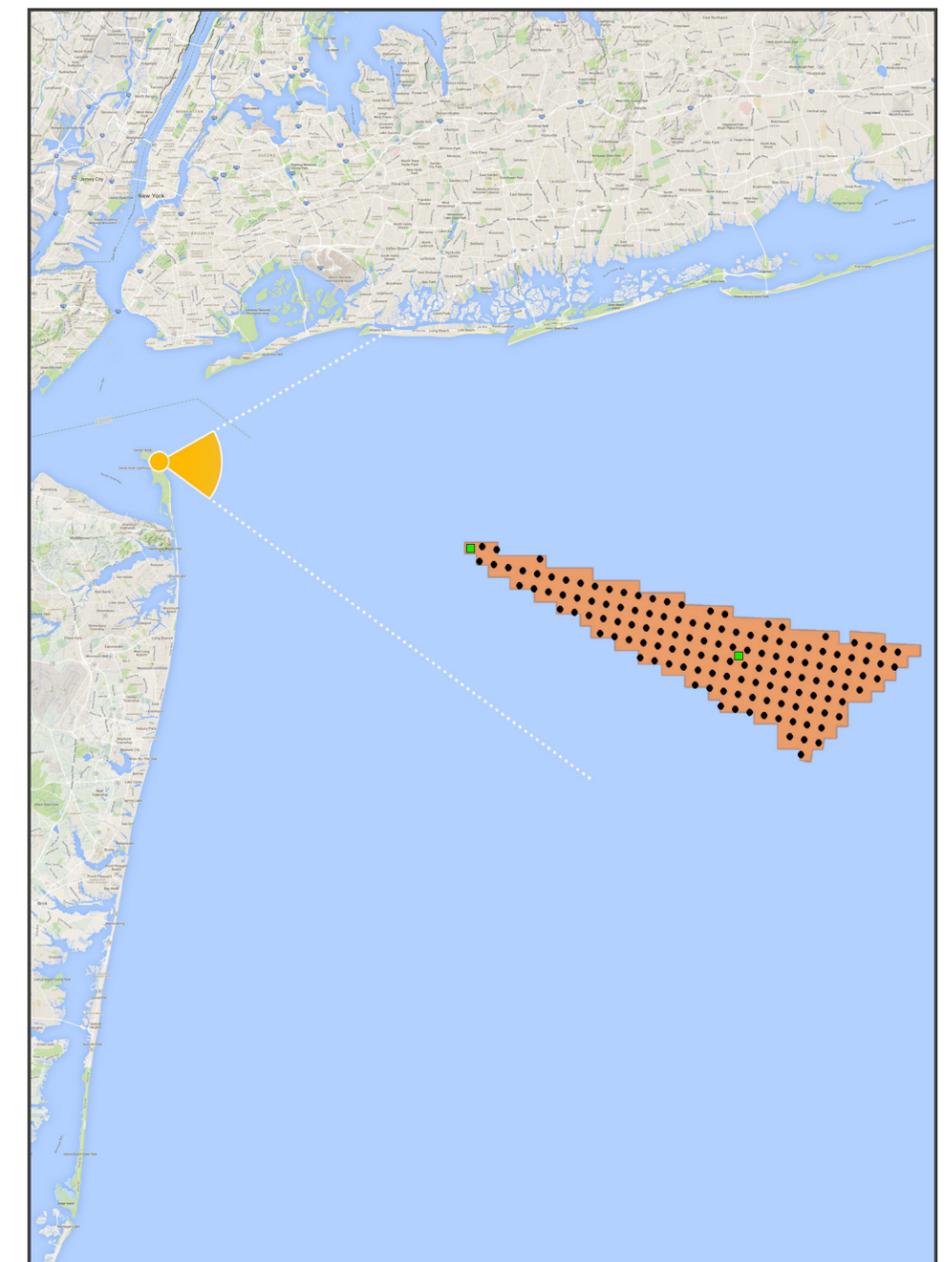
Turbine Information

Distance to Nearest Turbine (NM): 18.4
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Twin Light NHL, aka Navesink Light Station
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/8/2015
 Time (24hr): 09:14
 GPS Longitude: -73.98546
 GPS Latitude: 40.396035
 Viewpoint Elevation (ft): 254.78
 Camera Height (ft): 5.41
 Camera Heading (°): 106

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 139.7248559
 Sun Elevation: 16.11766057
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 25.2
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.4
 Period (Seconds): 11
 Temperature (°F): 12
 Temperature (°C): -11
 Humidity (%): 45

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



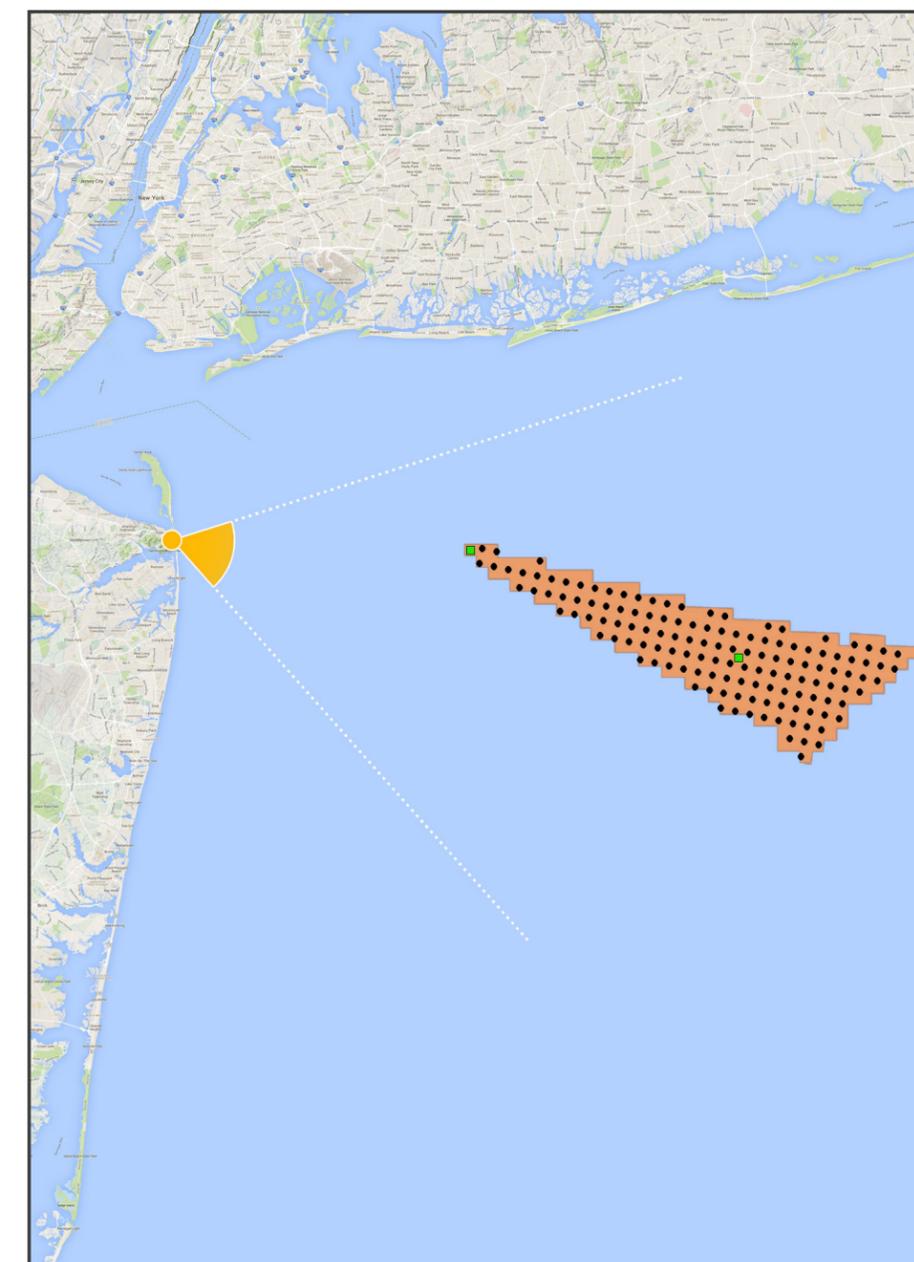
Turbine Information

Distance to Nearest Turbine (NM): 17.2
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Twin Light NHL, aka Navesink Light Station

Season: Winter

Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	1/8/2015
Time (24hr):	12:24
GPS Longitude:	-73.98546
GPS Latitude:	40.396035
Viewpoint Elevation (ft):	254.78
Camera Height (ft):	5.41
Camera Heading (°):	106

Camera Information

Camera Make & Model:	Canon EOS 5D Mark III
Camera Sensor Size:	36mm x 24mm
Lens Make & Model:	EF28mm f/1.8 USM
Lens Focal Length:	28mm
Field of View:	65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth:	185.5681151
Sun Elevation:	27.19551019
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	26.9
Average Predicted Visibility (NM):	19.5
Wave Height (ft):	0.4
Period (Seconds):	11
Temperature (°F):	16
Temperature (°C):	-9
Humidity (%):	36

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



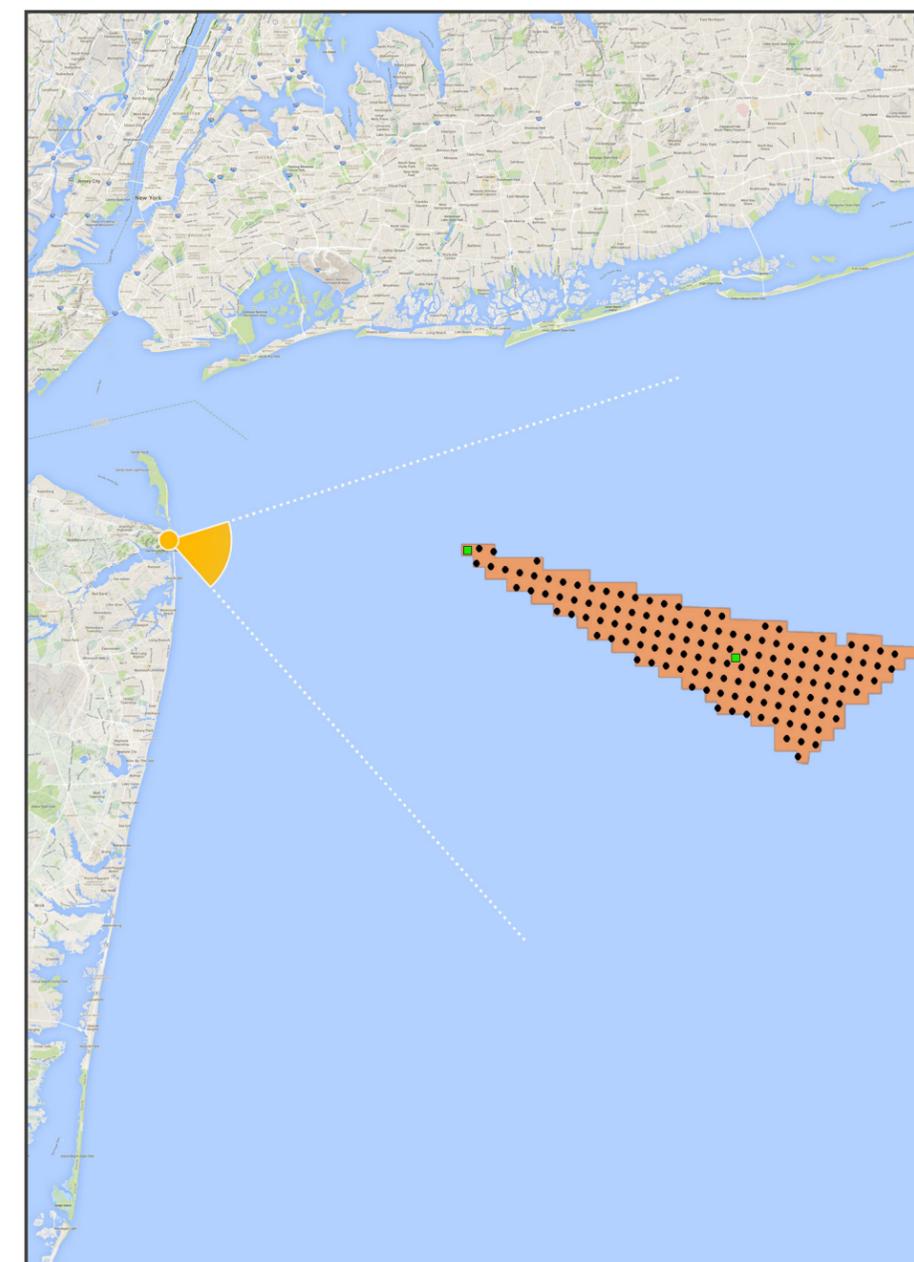
Turbine Information

Distance to Nearest Turbine (NM):	17.2
Make & Model:	Senvion 6.2M 152
Number of Turbines:	134
Hub Height (ft):	328.1
Support Structure Height (ft):	25
Rotor Diameter (ft):	498.7
Total Height to Tip of Blade (ft):	577.4
Service Platform:	100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Twin Light NHL, aka Navesink Light Station

Season: Winter

Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	1/8/2015
Time (24hr):	14:27
GPS Longitude:	-73.98546
GPS Latitude:	40.396035
Viewpoint Elevation (ft):	254.78
Camera Height (ft):	5.41
Camera Heading (°):	106

Camera Information

Camera Make & Model:	Canon EOS 5D Mark III
Camera Sensor Size:	36mm x 24mm
Lens Make & Model:	EF28mm f/1.8 USM
Lens Focal Length:	28mm
Field of View:	65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth:	215.2180557
Sun Elevation:	18.96313597
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	26.4
Average Predicted Visibility (NM):	19.5
Wave Height (ft):	0.4
Period (Seconds):	11
Temperature (°F):	18
Temperature (°C):	-8
Humidity (%):	39

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



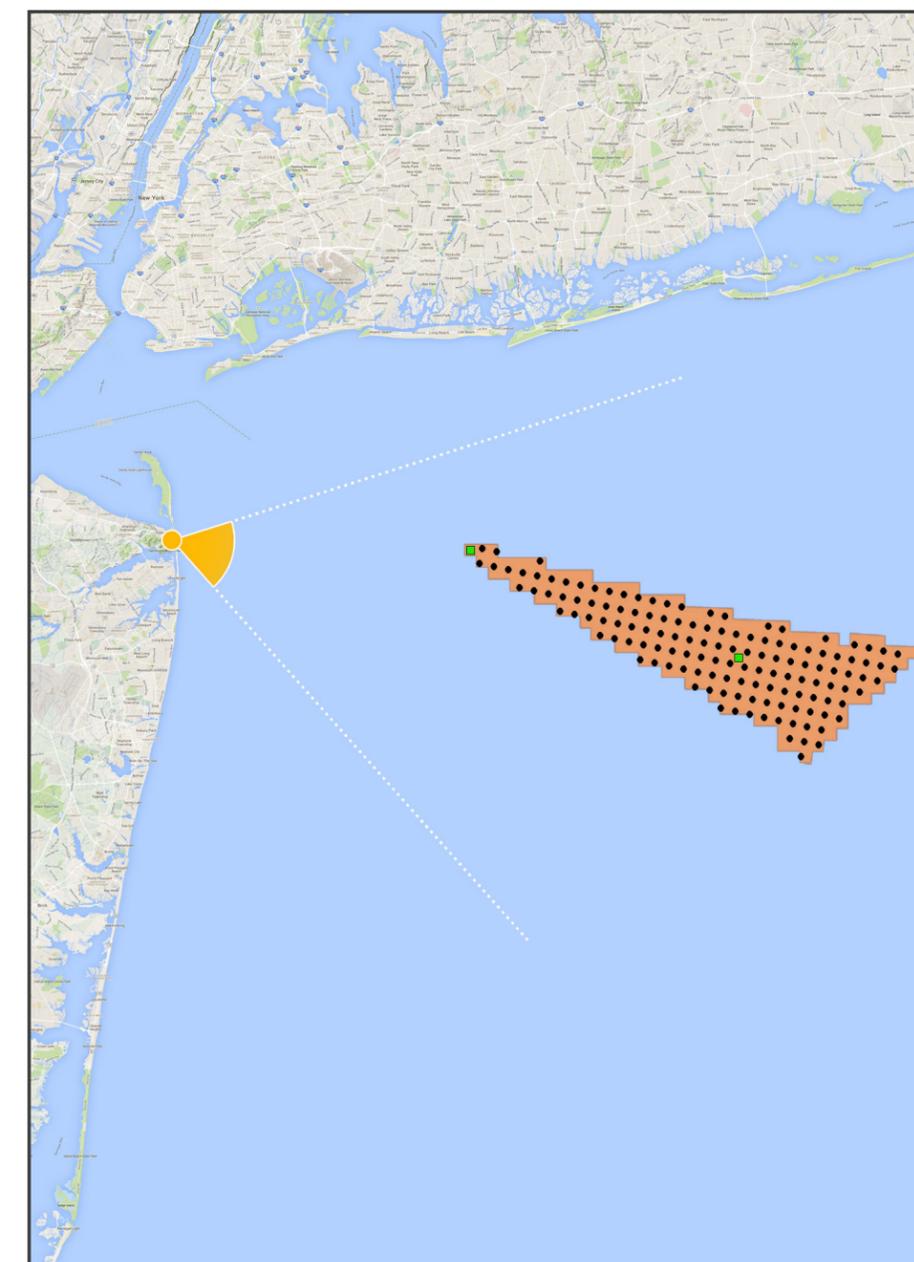
Turbine Information

Distance to Nearest Turbine (NM):	17.2
Make & Model:	Senvion 6.2M 152
Number of Turbines:	134
Hub Height (ft):	328.1
Support Structure Height (ft):	25
Rotor Diameter (ft):	498.7
Total Height to Tip of Blade (ft):	577.4
Service Platform:	100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Rumson
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/8/2015
 Time (24hr): 08:44
 GPS Longitude: -73.973794
 GPS Latitude: 40.366991
 Viewpoint Elevation (ft): 19.40
 Camera Height (ft): 5.41
 Camera Heading (°): 94

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 133.8174668
 Sun Elevation: 12.22999477
 Lighting Angle (On Turbines): Back-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 24.5
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.4
 Period (Seconds): 11
 Temperature (°F): 12
 Temperature (°C): -11
 Humidity (%): 48

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



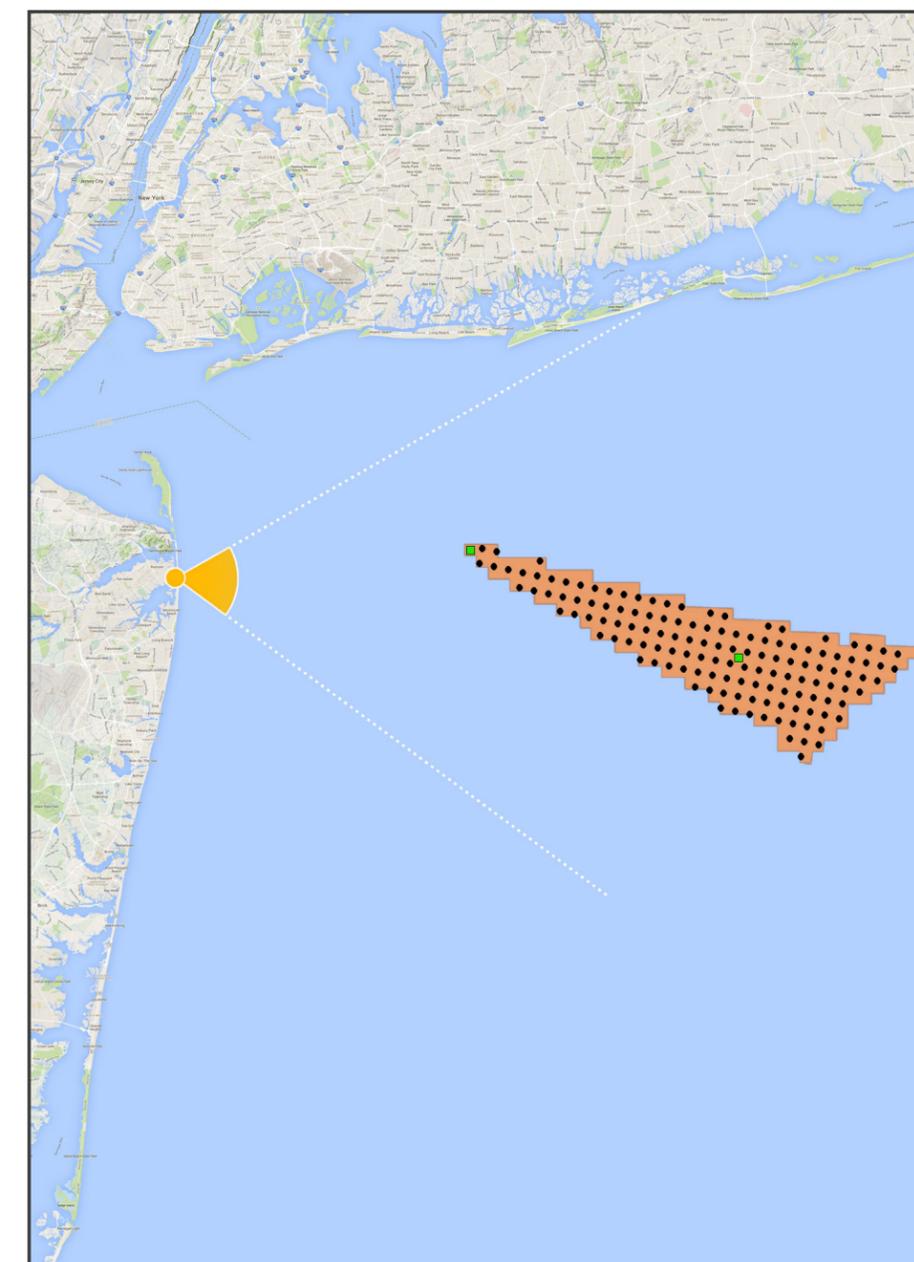
Turbine Information

Distance to Nearest Turbine (NM): 16.7
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Rumson
Season: Winter
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/8/2015
 Time (24hr): 11:55
 GPS Longitude: -73.973794
 GPS Latitude: 40.366991
 Viewpoint Elevation (ft): 19.40
 Camera Height (ft): 5.41
 Camera Heading (°): 94

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

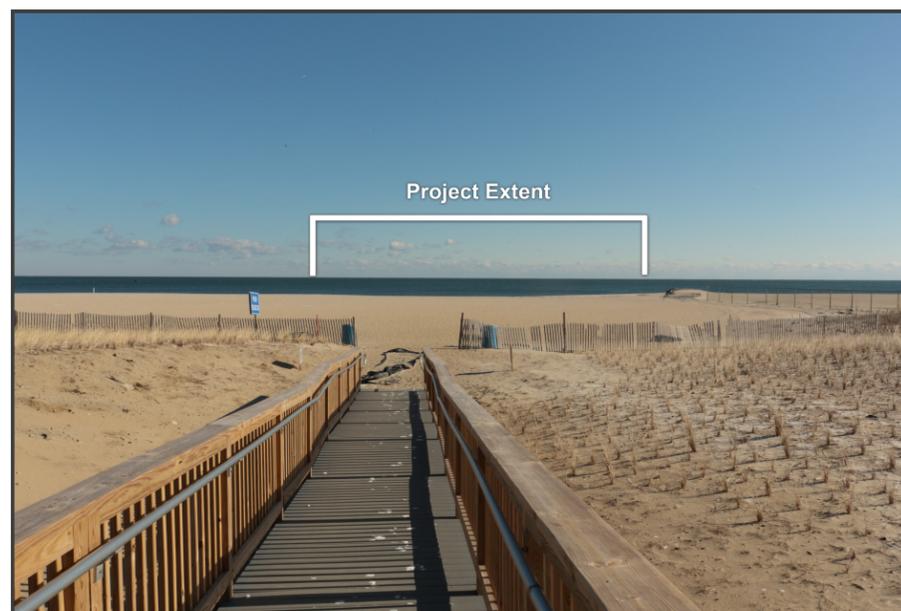
Sun And Weather Information

Sun Azimuth: 178.0319778
 Sun Elevation: 27.39506676
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 26.4
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.4
 Period (Seconds): 11
 Temperature (°F): 16
 Temperature (°C): -9
 Humidity (%): 39

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



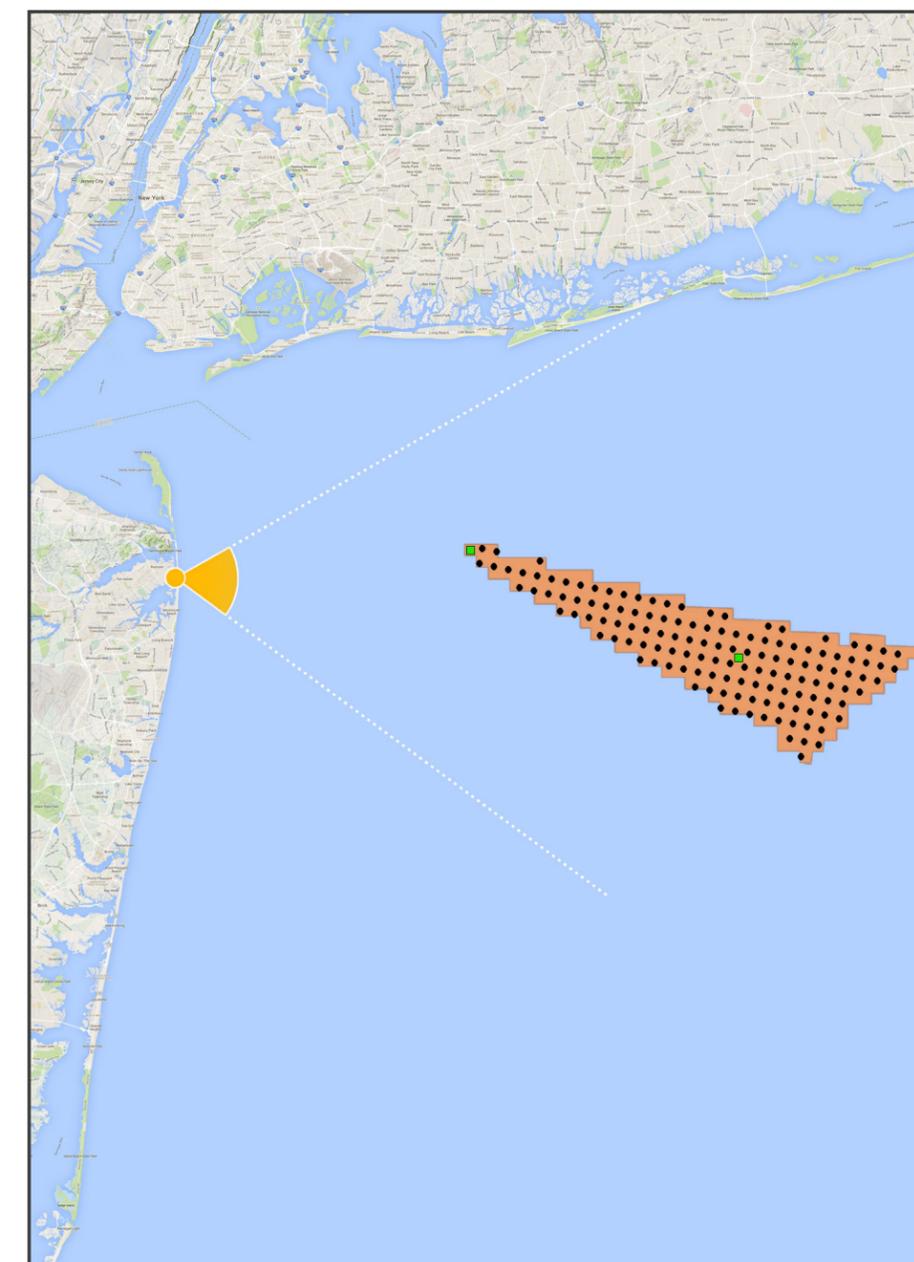
Turbine Information

Distance to Nearest Turbine (NM): 16.7
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Rumson
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/8/2015
 Time (24hr): 14:13
 GPS Longitude: -73.973794
 GPS Latitude: 40.366991
 Viewpoint Elevation (ft): 19.40
 Camera Height (ft): 5.41
 Camera Heading (°): 93

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 212.1714813
 Sun Elevation: 20.45994716
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Clear
 Maximum Visibility (NM): 26.4
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.4
 Period (Seconds): 11
 Temperature (°F): 18
 Temperature (°C): -8
 Humidity (%): 39

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



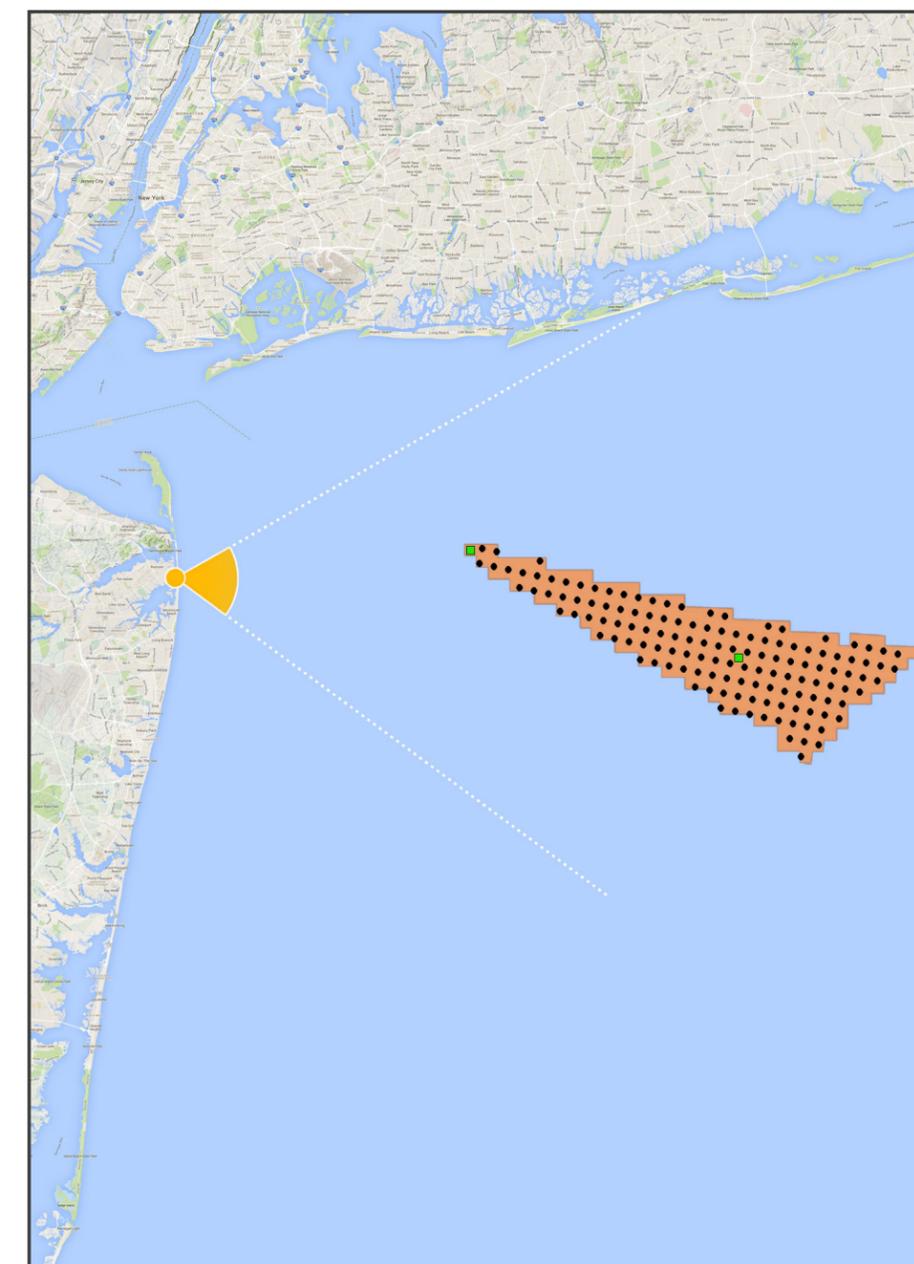
Turbine Information

Distance to Nearest Turbine (NM): 16.7
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Asbury Park
Season: Winter
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY): 1/8/2015
 Time (24hr): 08:11
 GPS Longitude: -73.998334
 GPS Latitude: 40.224404
 Viewpoint Elevation (ft): 19.14
 Camera Height (ft): 5.41
 Camera Heading (°): 65

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 127.7268302
 Sun Elevation: 7.541913277
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 25.4
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.4
 Period (Seconds): 11
 Temperature (°F): 12
 Temperature (°C): -11
 Humidity (%): 44

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



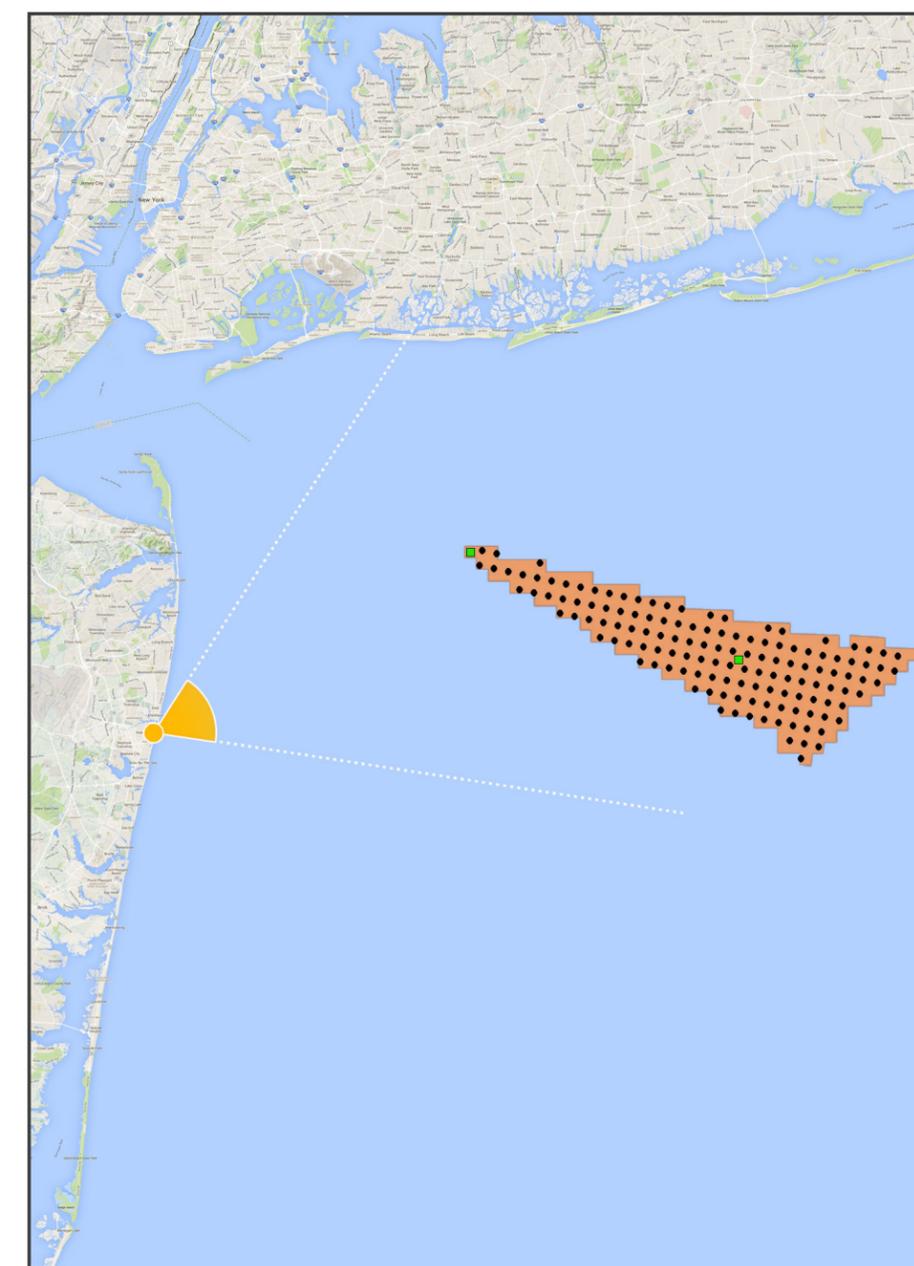
Turbine Information

Distance to Nearest Turbine (NM): 20.0
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)

KOP: Asbury Park
Season: Winter
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 11:32
 GPS Longitude: -73.998334
 GPS Latitude: 40.224404
 Viewpoint Elevation (ft): 19.14
 Camera Height (ft): 5.41
 Camera Heading (°): 65

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 172.1548491
 Sun Elevation: 27.03313143
 Lighting Angle (On Turbines): Right-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 26.4
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.6
 Period (Seconds): 10
 Temperature (°F): 21
 Temperature (°C): -6
 Humidity (%): 39

Viewing Instructions

For 11 x 17 inch Printed Display: Viewing distance is 11.2 inches (285 mm)
 For On-Screen Display: Viewing distance is 11.2 inches (285 mm)

Image Preview



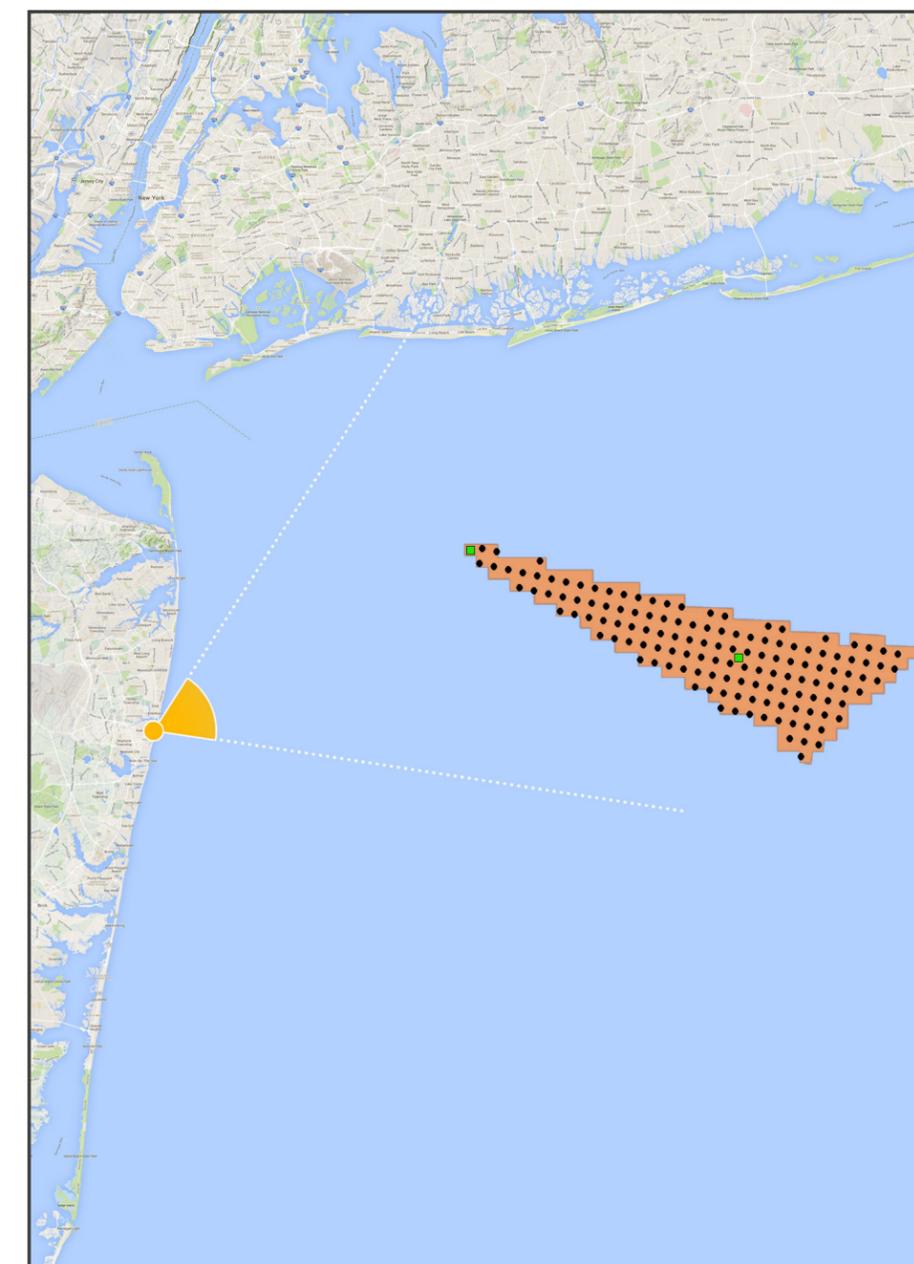
Turbine Information

Distance to Nearest Turbine (NM): 20.0
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



Scale bar to be 4 inches wide (102 mm)

For 11 x 17 inch Printed Display:
Viewing distance is 11.2 inches (285 mm)

For On-Screen Display:
Viewing distance is 11.2 inches (285 mm)



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KOP: Asbury Park
Season: Winter
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY): 1/7/2015
 Time (24hr): 13:41
 GPS Longitude: -73.998334
 GPS Latitude: 40.224404
 Viewpoint Elevation (ft): 19.14
 Camera Height (ft): 5.41
 Camera Heading (°): 65

Camera Information

Camera Make & Model: Canon EOS 5D Mark III
 Camera Sensor Size: 36mm x 24mm
 Lens Make & Model: EF28mm f/1.8 USM
 Lens Focal Length: 28mm
 Field of View: 65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 204.8828529
 Sun Elevation: 23.34500802
 Lighting Angle (On Turbines): Front-Lit
 Weather Conditions: Partly-Cloudy
 Maximum Visibility (NM): 26.9
 Average Predicted Visibility (NM): 19.5
 Wave Height (ft): 0.6
 Period (Seconds): 10
 Temperature (°F): 21
 Temperature (°C): -6
 Humidity (%): 36

Viewing Instructions

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Image Preview



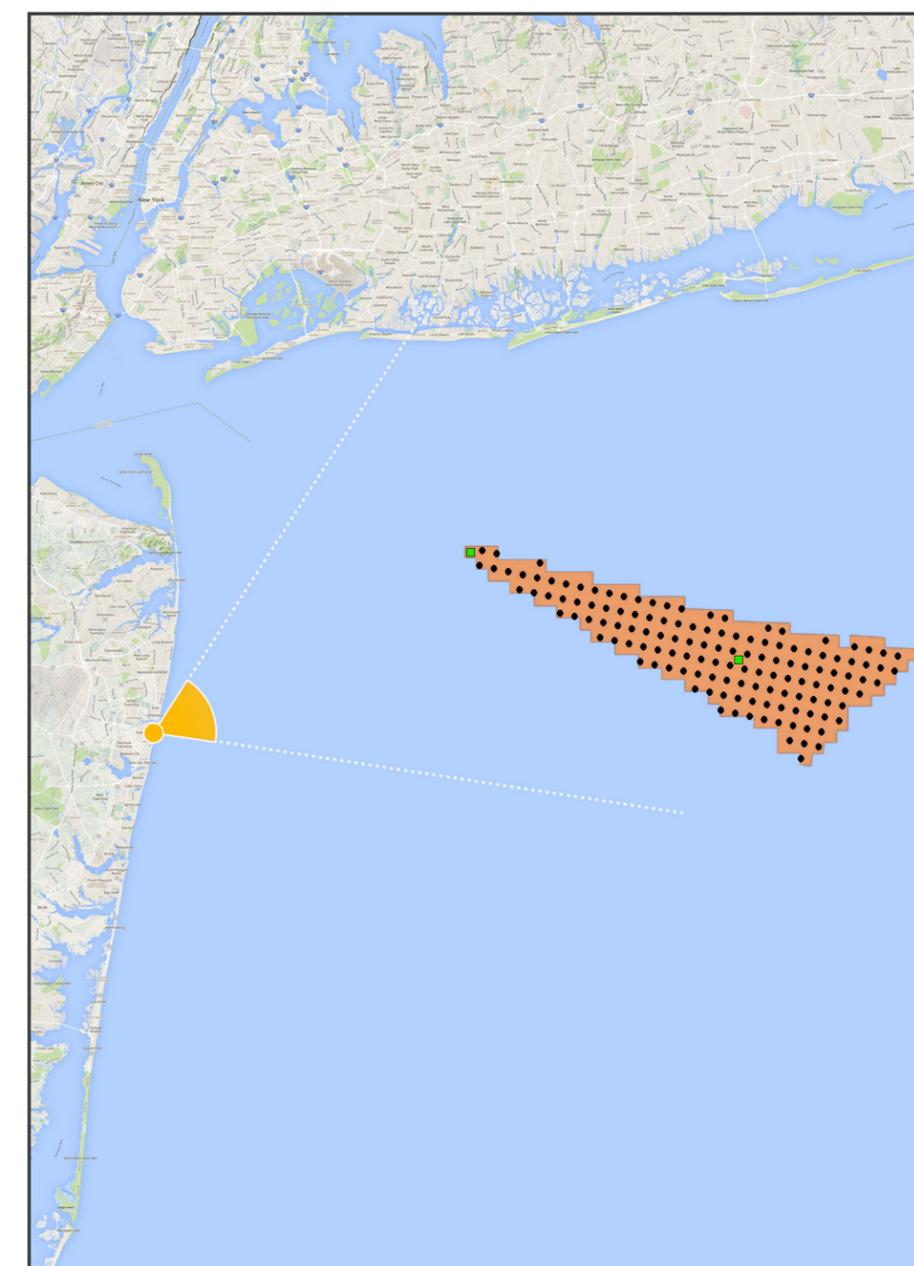
Turbine Information

Distance to Nearest Turbine (NM): 20.0
 Make & Model: Senvion 6.2M 152
 Number of Turbines: 134
 Hub Height (ft): 328.1
 Support Structure Height (ft): 25
 Rotor Diameter (ft): 498.7
 Total Height to Tip of Blade (ft): 577.4
 Service Platform: 100ft x 200ft Steel Platform, 40ft above MWS

Scale Bar



Context Map



● Key Observation Point (KOP) ■ Site Boundary
 ● Turbine ■ Electrical Service Platform



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