H2 Summer

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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 visibly 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.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Sunken Forest**
Season: Summer
Time of Day: Morning

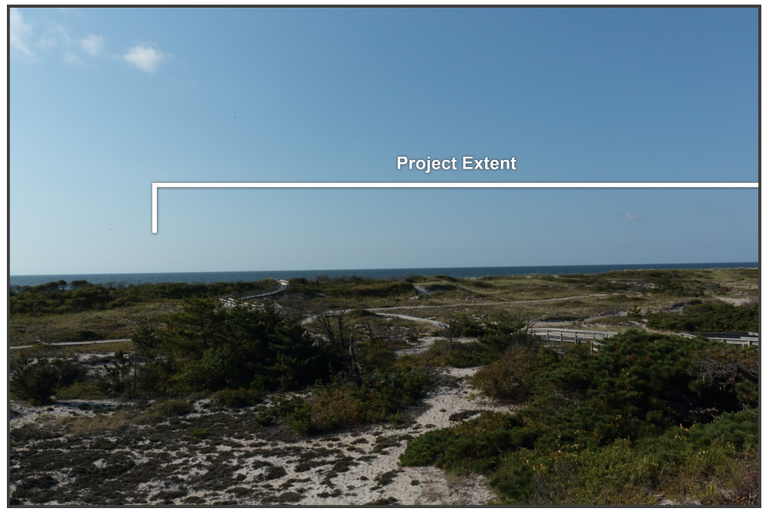
Base Photographic Documentation

Date (MM/DD/YYYY):	9/20/2014
Time (24hr):	09:18
GPS Longitude:	-73.112372
GPS Latitude:	40.654935
Viewpoint Elevation (ft):	31.31
Camera Height (ft):	5.41
Camera Heading (°):	198

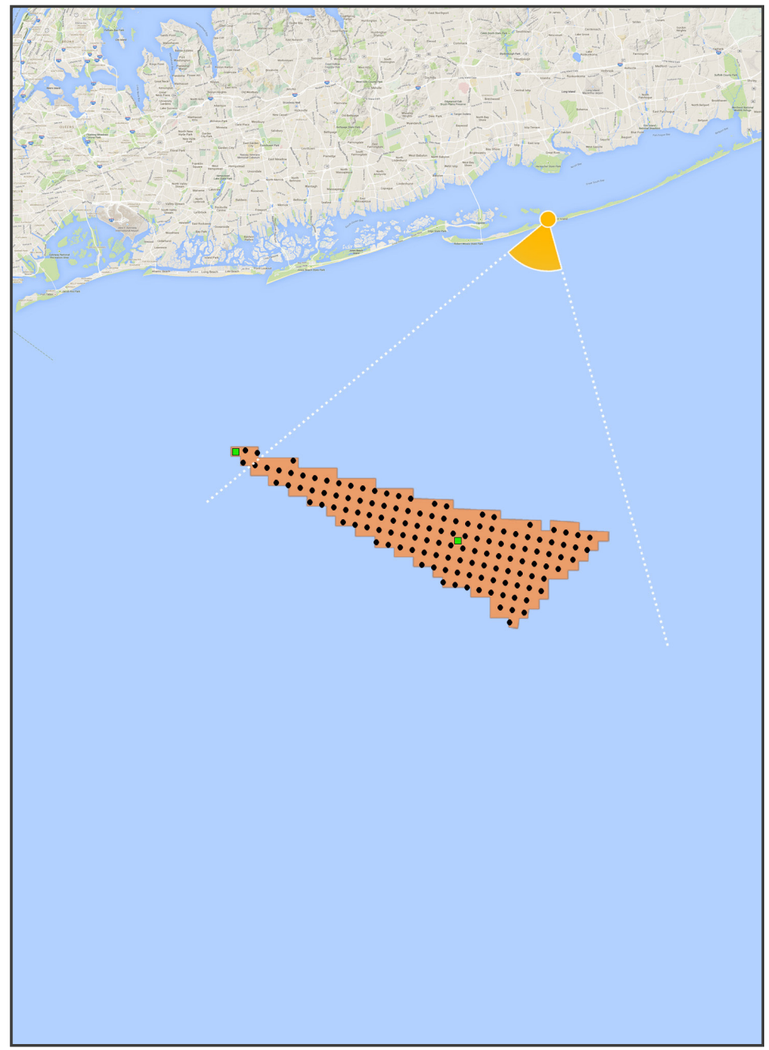
Camera Information

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)

Image Preview



Context Map



Sun And Weather Information

Sun Azimuth:	116.2427902
Sun Elevation:	28.59638718
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	19.4
Average Predicted Visibility (NM):	14.7
Wave Height (ft):	3.5
Period (Seconds):	8
Temperature (°F):	66
Temperature (°C):	19
Humidity (%):	65

Turbine Information

Distance to Nearest Turbine (NM):	21.0
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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Sunken Forest**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	7/3/2014
Time (24hr):	13:24
GPS Longitude:	-73.112372
GPS Latitude:	40.654935
Viewpoint Elevation (ft):	31.31
Camera Height (ft):	5.41
Camera Heading (°):	199

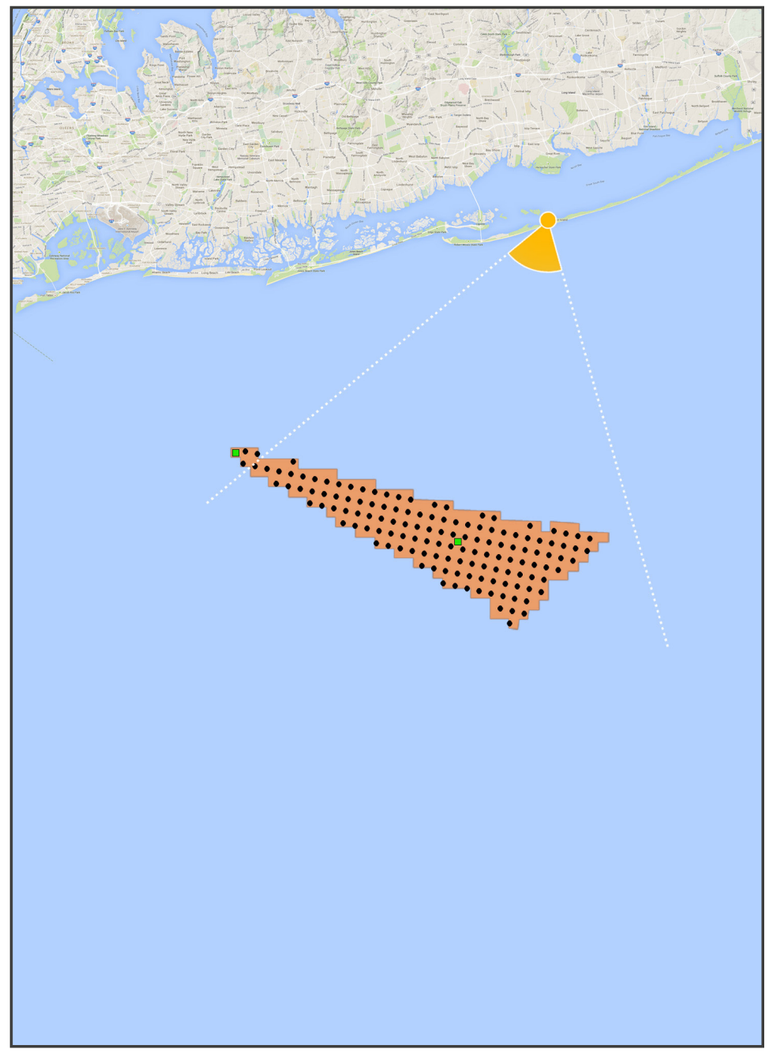
Camera Information

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)

Image Preview



Context Map



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

Sun And Weather Information

Sun Azimuth:	200.012695
Sun Elevation:	71.3564011
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	17.9
Average Predicted Visibility (NM):	14.7
Wave Height (ft):	3
Period (Seconds):	8
Temperature (°F):	81
Temperature (°C):	27
Humidity (%):	69

Turbine Information

Distance to Nearest Turbine (NM):	21.0
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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Sunken Forest**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	7/3/2014
Time (24hr):	15:58
GPS Longitude:	-73.112372
GPS Latitude:	40.654935
Viewpoint Elevation (ft):	31.31
Camera Height (ft):	5.41
Camera Heading (°):	198

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:	259.0548094
Sun Elevation:	48.15995026
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	18.7
Average Predicted Visibility (NM):	14.7
Wave Height (ft):	3
Period (Seconds):	8
Temperature (°F):	77
Temperature (°C):	25
Humidity (%):	67

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



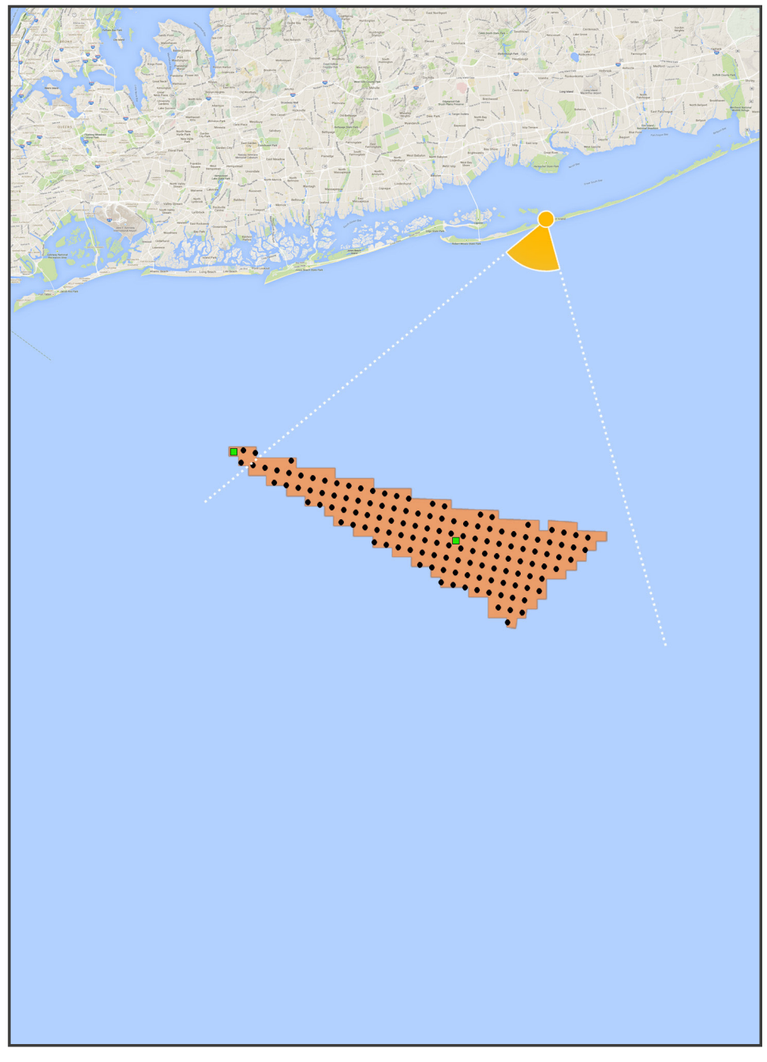
Turbine Information

Distance to Nearest Turbine (NM):	21.0
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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SUNKEN FOREST
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Jones Beach**
Season: Summer
Time of Day: Morning

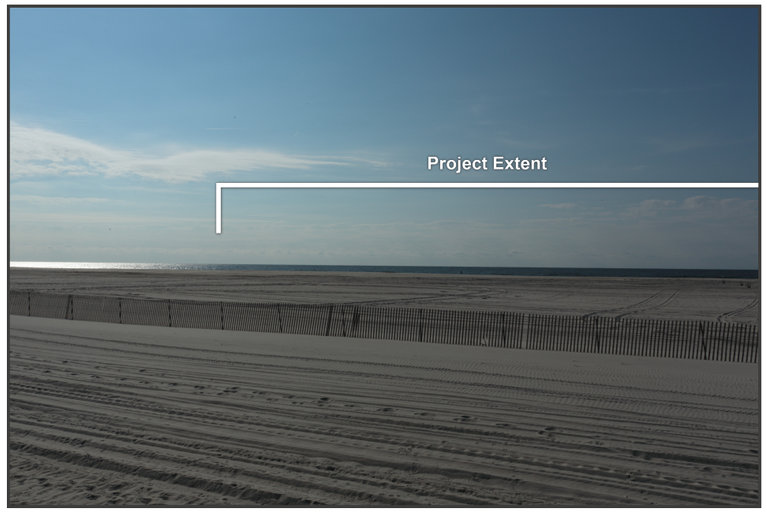
Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	09:25
GPS Longitude:	-73.507291
GPS Latitude:	40.59421
Viewpoint Elevation (ft):	16.28
Camera Height (ft):	5.41
Camera Heading (°):	146

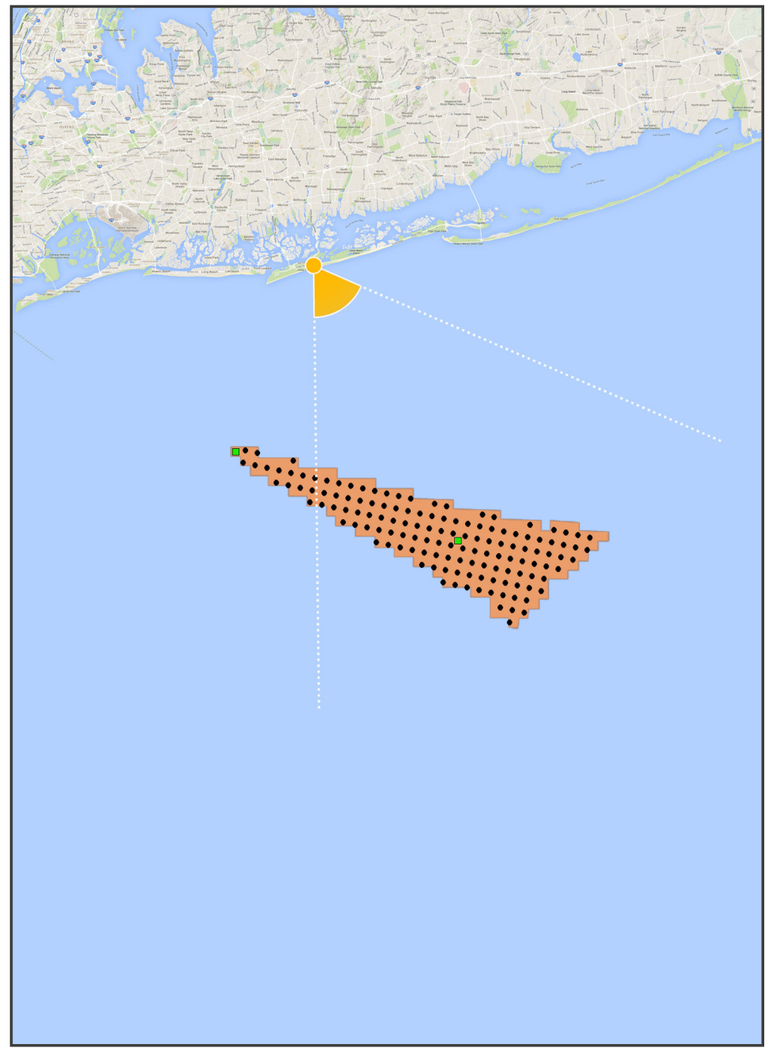
Camera Information

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)

Image Preview



Context Map



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

Sun And Weather Information

Sun Azimuth:	116.9773937
Sun Elevation:	29.7666904
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	23.5
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2.5
Period (Seconds):	11
Temperature (°F):	57
Temperature (°C):	14
Humidity (%):	52

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Jones Beach**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	12:15
GPS Longitude:	-73.507291
GPS Latitude:	40.59421
Viewpoint Elevation (ft):	16.28
Camera Height (ft):	5.41
Camera Heading (°):	148

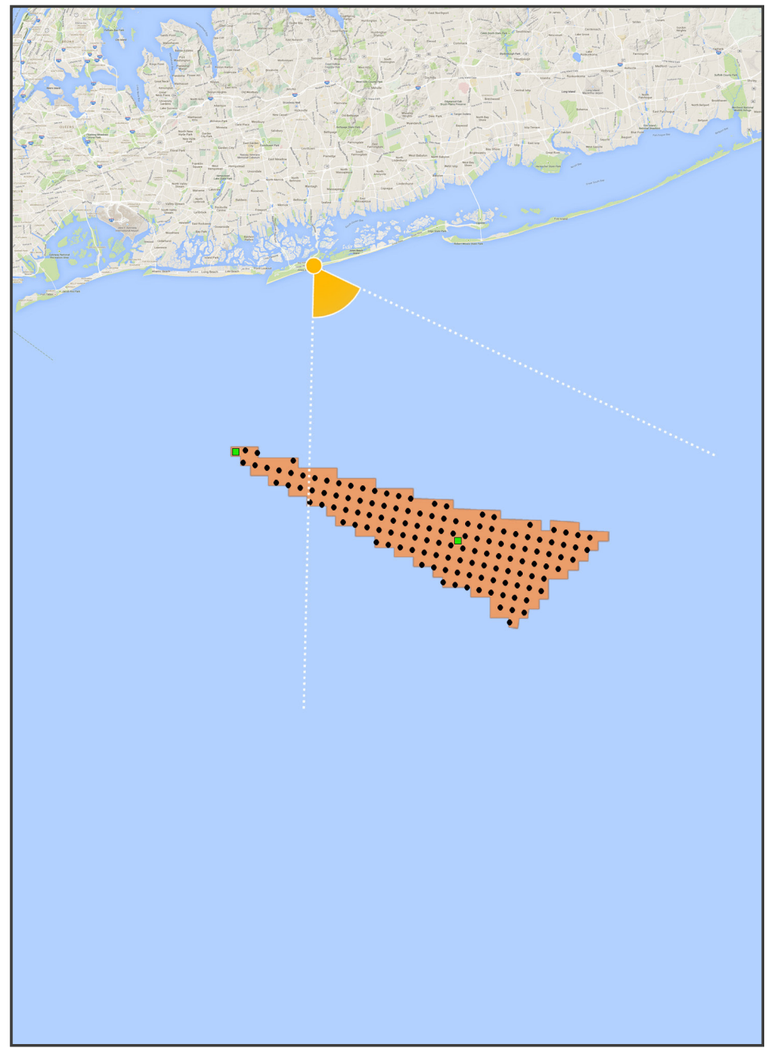
Camera Information

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)

Image Preview



Context Map



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

Sun And Weather Information

Sun Azimuth:	167.191347
Sun Elevation:	50.04196661
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	25.2
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2.5
Period (Seconds):	11
Temperature (°F):	61
Temperature (°C):	16
Humidity (%):	45

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Jones Beach**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	8/7/2014
Time (24hr):	14:12
GPS Longitude:	-73.507291
GPS Latitude:	40.59421
Viewpoint Elevation (ft):	16.28
Camera Height (ft):	5.41
Camera Heading (°):	148

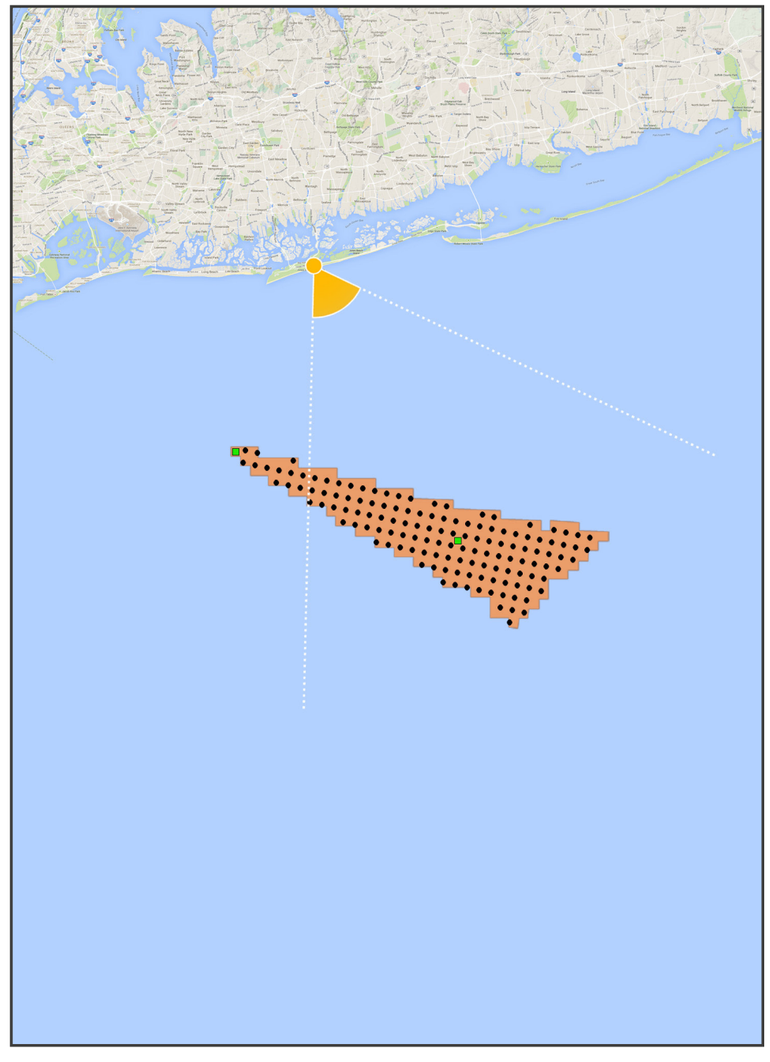
Camera Information

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)

Image Preview



Context Map



Sun And Weather Information

Sun Azimuth:	217.9965494
Sun Elevation:	61.09625088
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	27.2
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2.5
Period (Seconds):	8
Temperature (°F):	79
Temperature (°C):	26
Humidity (%):	34

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JONES BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Jacob Riis Park**
Season: Summer
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY):	8/7/2014
Time (24hr):	10:33
GPS Longitude:	-73.869745
GPS Latitude:	40.565889
Viewpoint Elevation (ft):	15.57
Camera Height (ft):	5.41
Camera Heading (°):	120

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:	116.1922069
Sun Elevation:	49.8712415
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	27.1
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2.5
Period (Seconds):	8
Temperature (°F):	73
Temperature (°C):	23
Humidity (%):	35

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



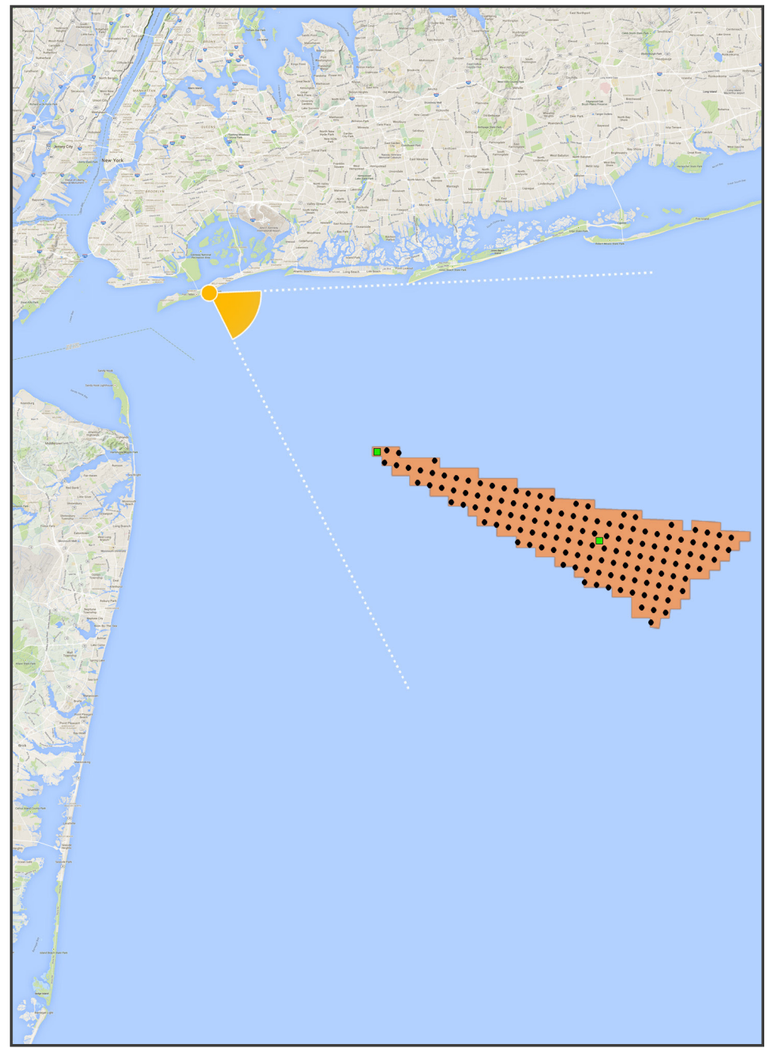
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Jacob Riis Park**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	10:56
GPS Longitude:	-73.869745
GPS Latitude:	40.565889
Viewpoint Elevation (ft):	15.57
Camera Height (ft):	5.41
Camera Heading (°):	122

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:	139.4718873
Sun Elevation:	43.1568258
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	24.0
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2
Period (Seconds):	11
Temperature (°F):	61
Temperature (°C):	16
Humidity (%):	50

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



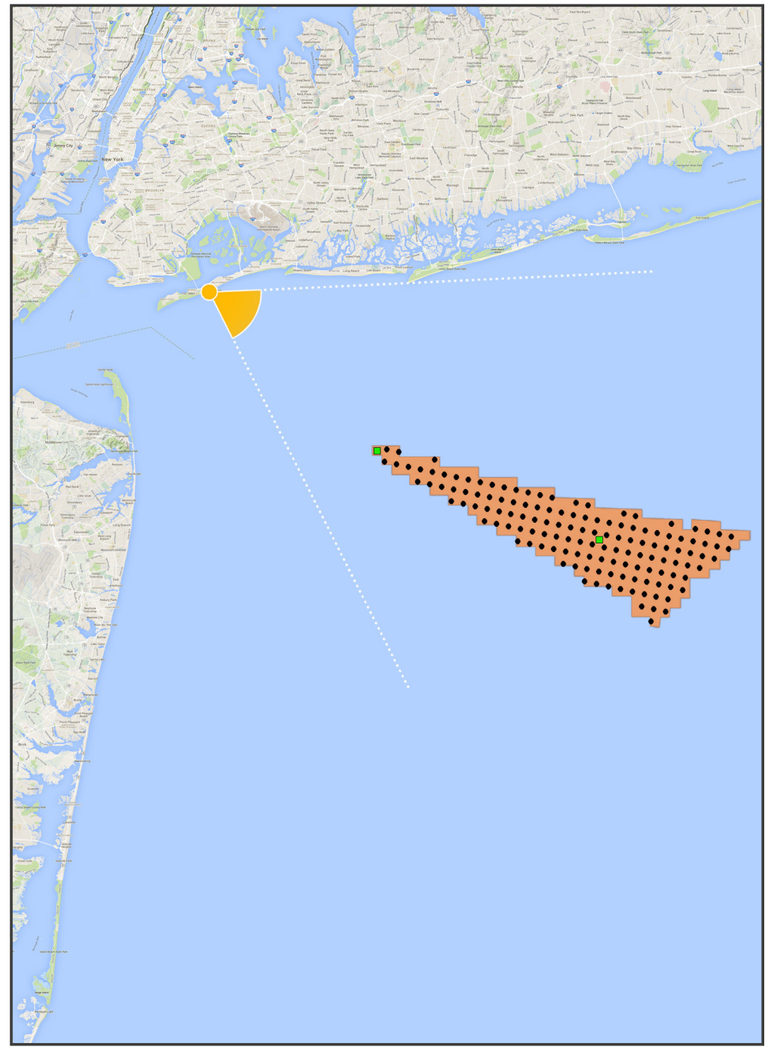
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Jacob Riis Park**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	14:34
GPS Longitude:	-73.869745
GPS Latitude:	40.565889
Viewpoint Elevation (ft):	15.57
Camera Height (ft):	5.41
Camera Heading (°):	121

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:	217.9492205
Sun Elevation:	44.11290898
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	24.5
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	1.9
Period (Seconds):	11
Temperature (°F):	63
Temperature (°C):	17
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



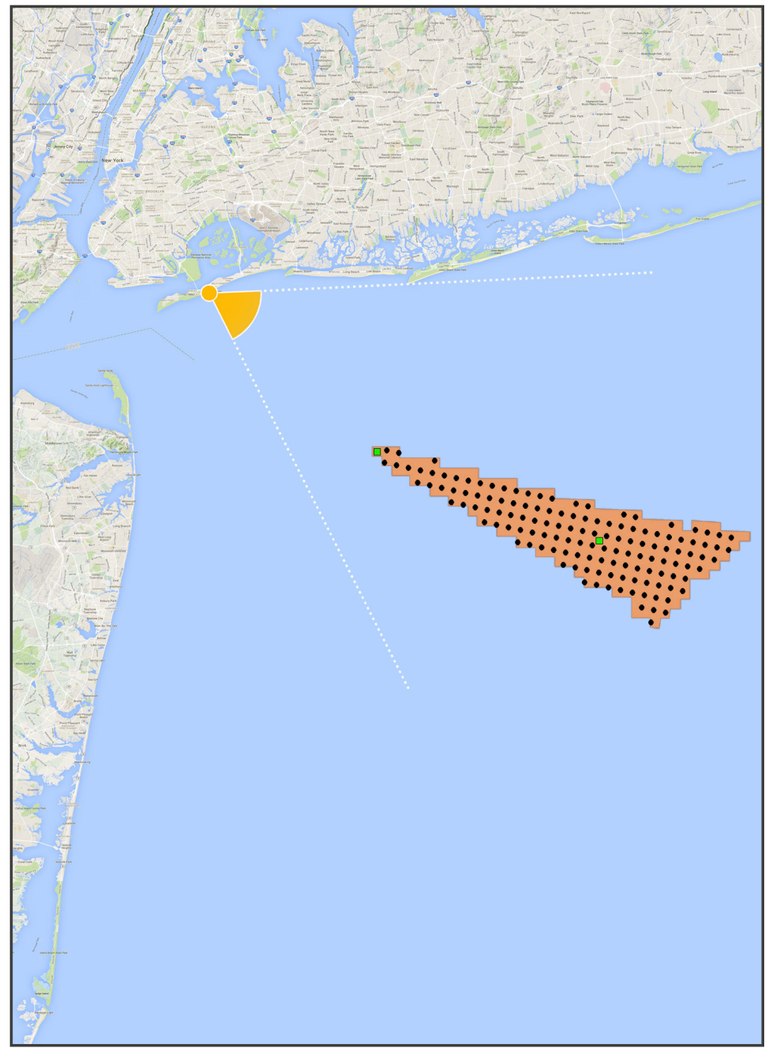
Turbine Information

Distance to Nearest Turbine (NM):	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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - JACOB RIIS PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Great Kills**
Season: Summer
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	10:21
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:	129.4487762
Sun Elevation:	38.29331934
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Cloud
Maximum Visibility (NM):	23.5
Average Predicted Visibility (NM):	17.7
Wave Height (ft):	1.9
Period (Seconds):	11
Temperature (°F):	61
Temperature (°C):	16
Humidity (%):	52

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



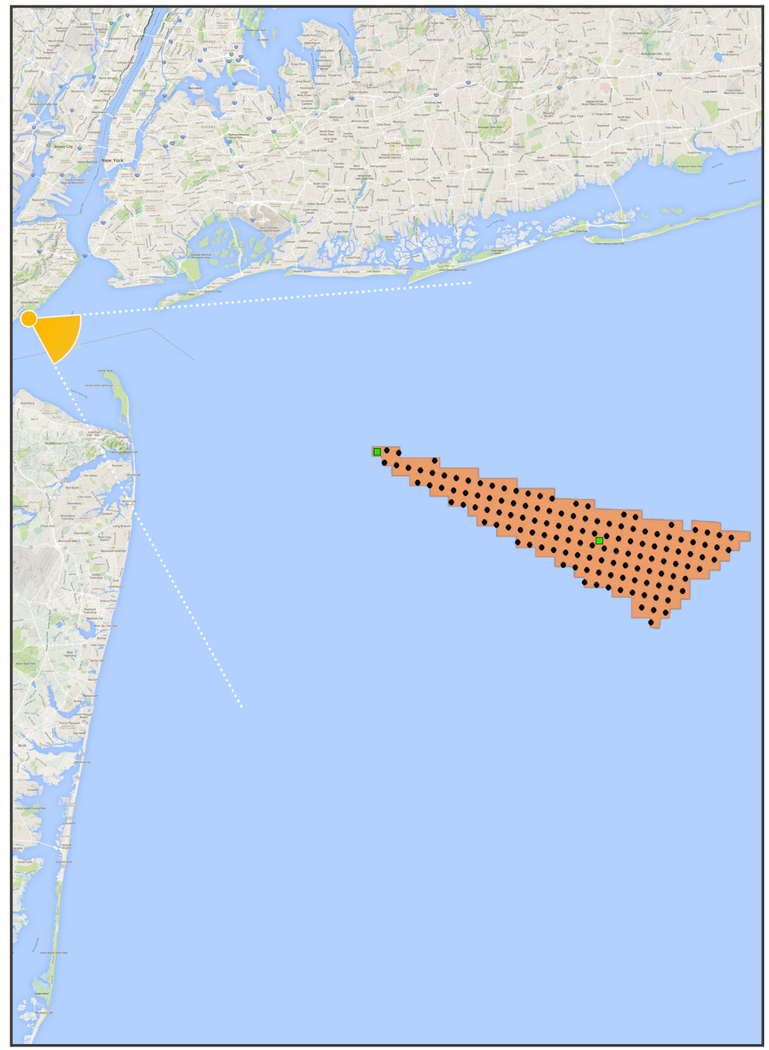
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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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KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Great Kills**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	12:19
GPS Longitude:	-74.129602
GPS Latitude:	40.537553
Viewpoint Elevation (ft):	16.62
Camera Height (ft):	5.41
Camera Heading (°):	118

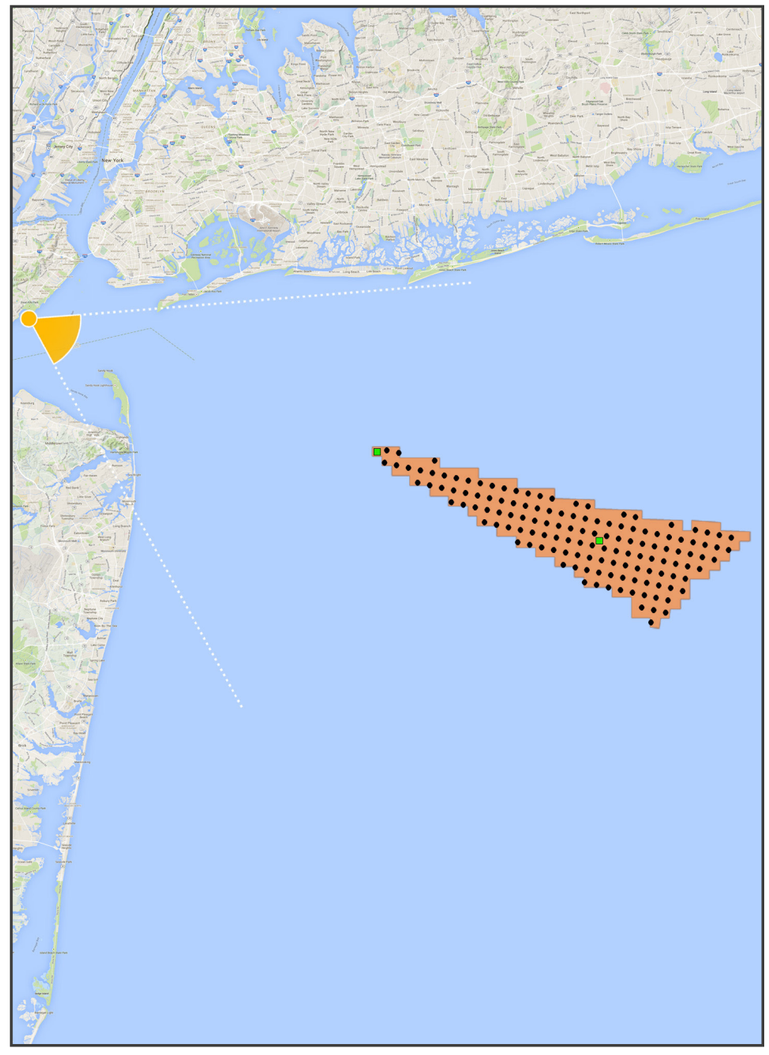
Camera Information

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)

Image Preview



Context Map



Sun And Weather Information

Sun Azimuth:	167.7579113
Sun Elevation:	50.15847731
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	25.2
Average Predicted Visibility (NM):	17.7
Wave Height (ft):	1.9
Period (Seconds):	11
Temperature (°F):	61
Temperature (°C):	16
Humidity (%):	45

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Great Kills**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	9/19/2014
Time (24hr):	14:00
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:	206.445944
Sun Elevation:	47.69859662
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	25.2
Average Predicted Visibility (NM):	17.7
Wave Height (ft):	1.7
Period (Seconds):	11
Temperature (°F):	63
Temperature (°C):	17
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



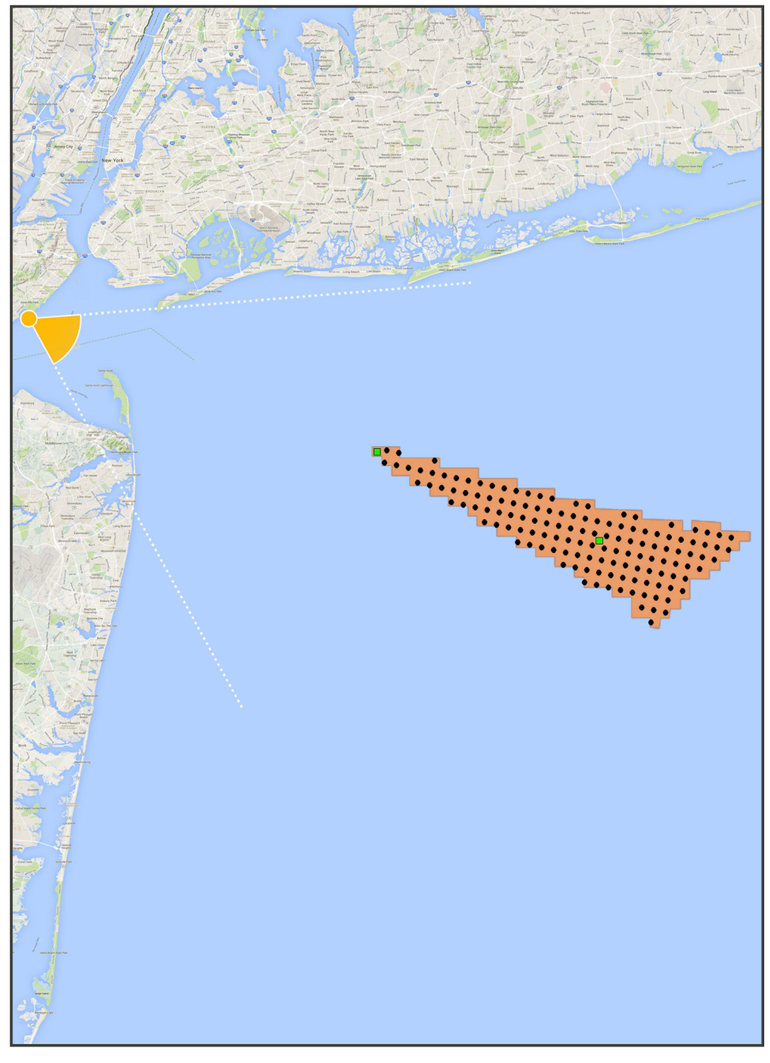
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - GREAT KILLS
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Truescape®

KOP: **Sandy Hook North Beach**
Season: Summer
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY):	9/18/2014
Time (24hr):	10:19
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 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:	128.6474652
Sun Elevation:	38.38152032
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	22.3
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	3.5
Period (Seconds):	13
Temperature (°F):	66
Temperature (°C):	19
Humidity (%):	56

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



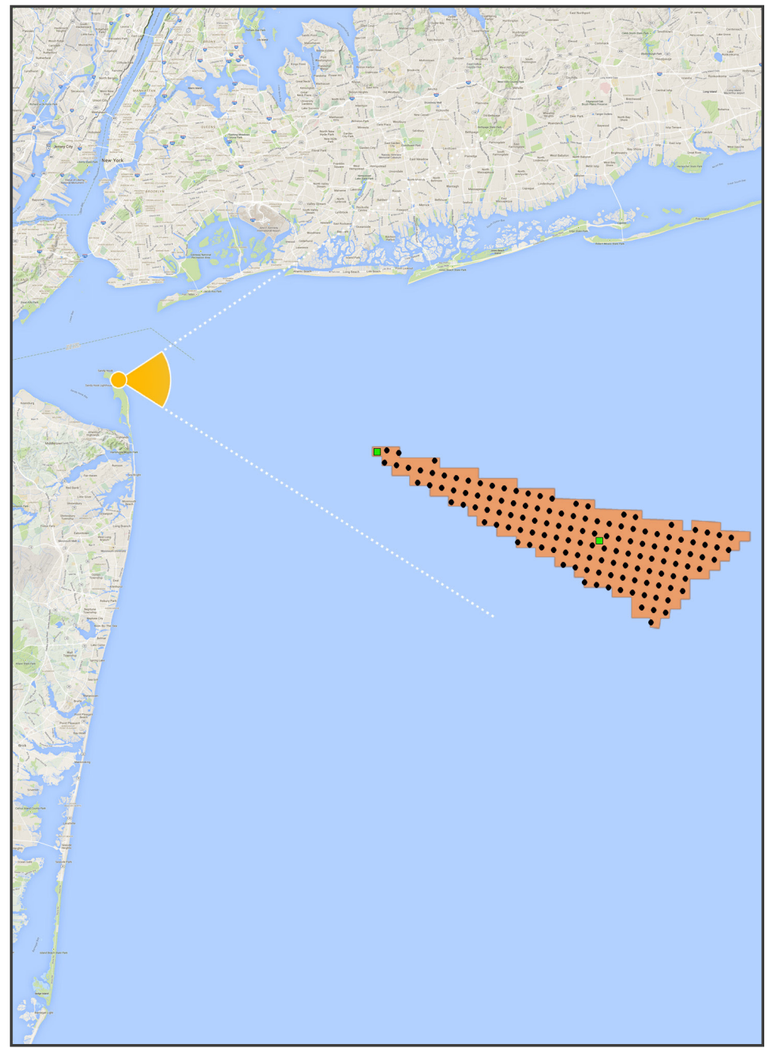
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Sandy Hook North Beach**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	8/28/2014
Time (24hr):	11:44
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:	147.2465503
Sun Elevation:	55.11046539
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	24.0
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	4.5
Period (Seconds):	13
Temperature (°F):	77
Temperature (°C):	25
Humidity (%):	50

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



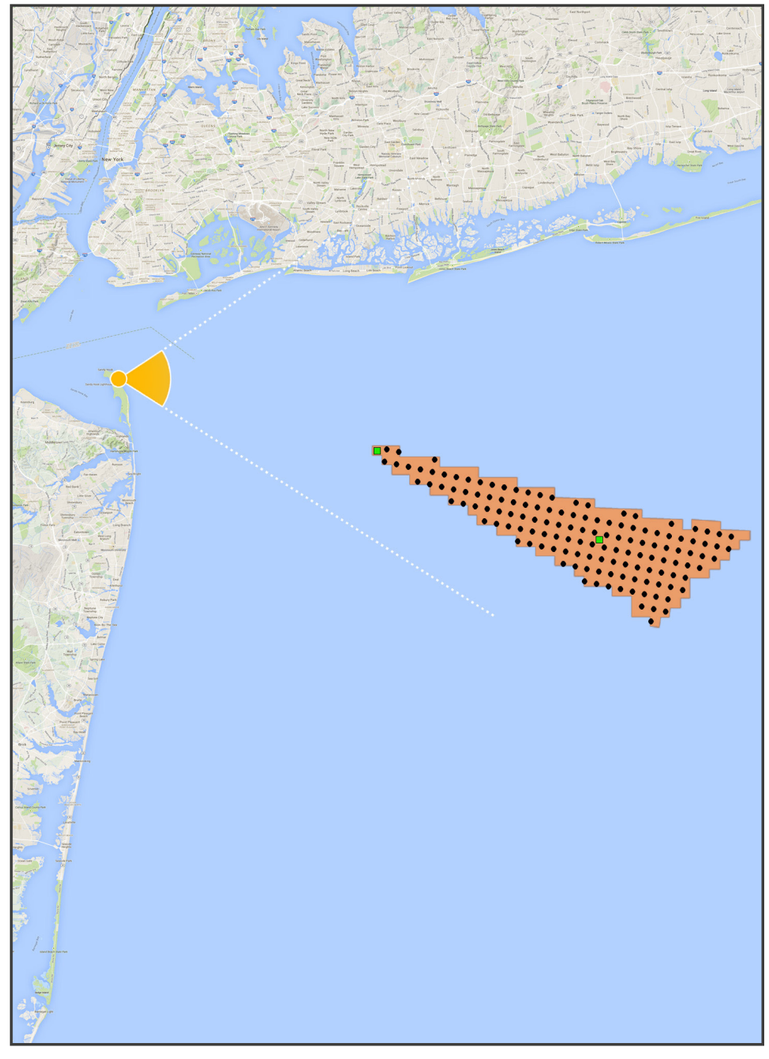
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Sandy Hook North Beach**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	9/5/2014
Time (24hr):	14:27
GPS Longitude:	-73.994414
GPS Latitude:	40.468987
Viewpoint Elevation (ft):	10.94
Camera Height (ft):	5.41
Camera Heading (°):	93

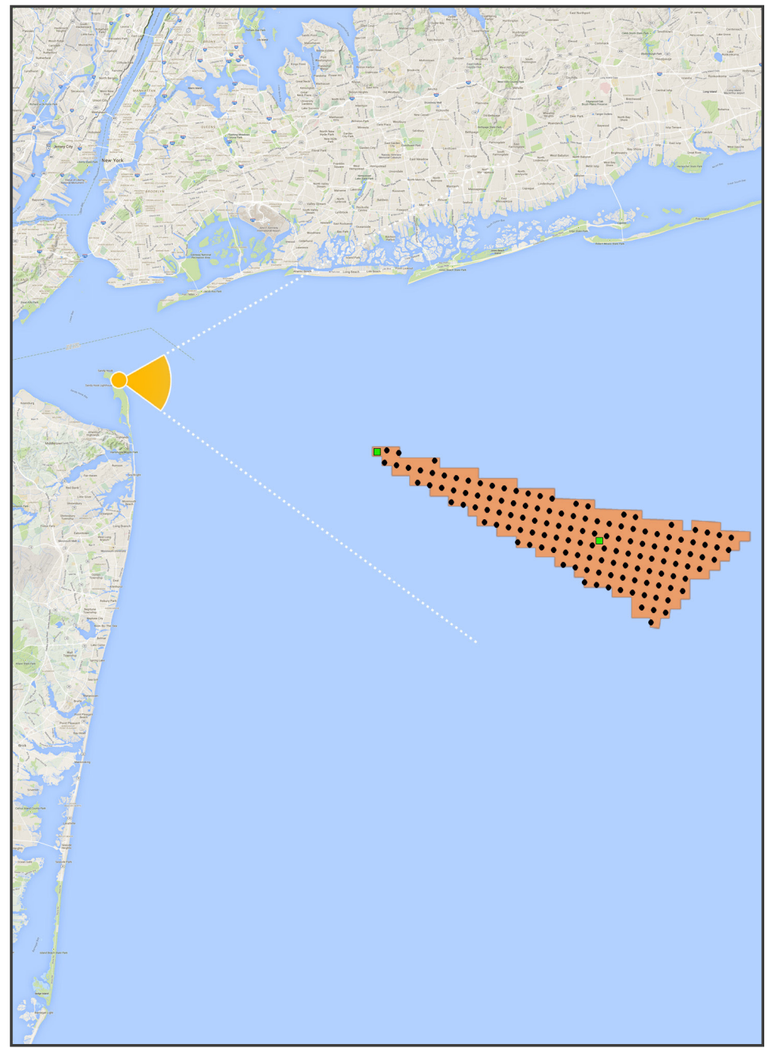
Camera Information

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)

Image Preview



Context Map



Sun And Weather Information

Sun Azimuth:	217.6558243
Sun Elevation:	50.35620858
Lighting Angle (On Turbines):	Front-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	19.0
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	0.8
Period (Seconds):	8
Temperature (°F):	82
Temperature (°C):	28
Humidity (%):	66

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - SANDY HOOK NORTH BEACH
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

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

Base Photographic Documentation

Date (MM/DD/YYYY):	8/28/2014
Time (24hr):	09:24
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:	107.8658065
Sun Elevation:	33.8550613
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	23.2
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	5
Period (Seconds):	14
Temperature (°F):	72
Temperature (°C):	22
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



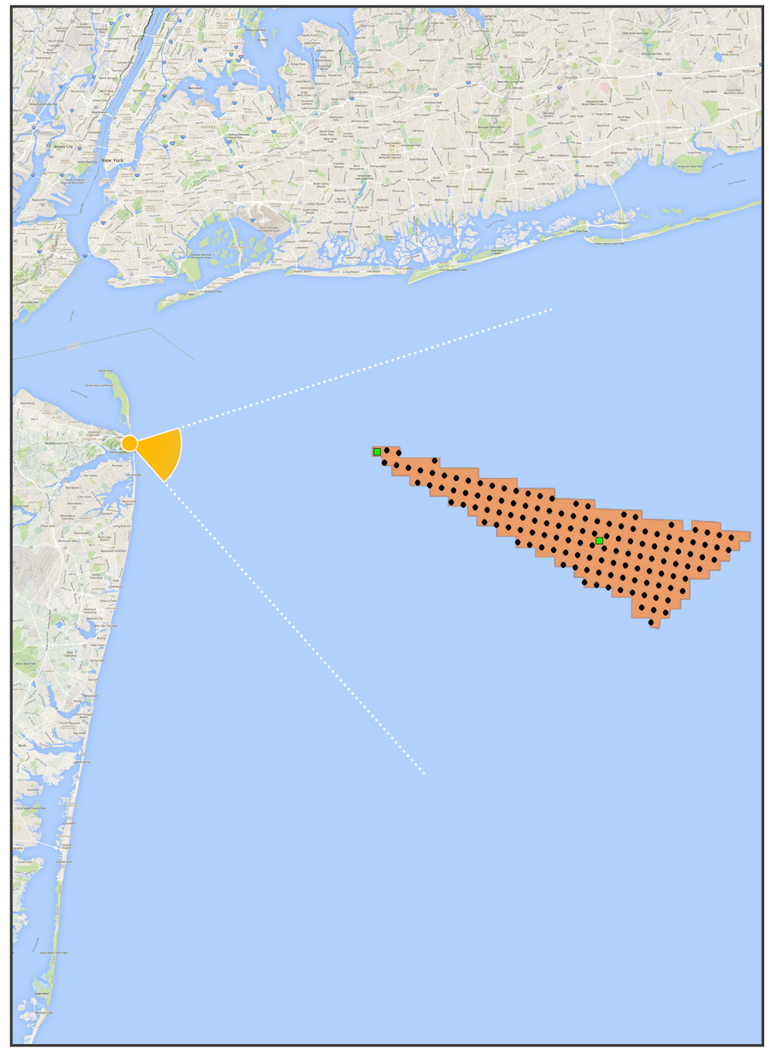
Turbine Information

Distance to Nearest Turbine (NM):	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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Twin Light NHL, aka Navesink Light Station**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/18/2014
Time (24hr):	11:46
GPS Longitude:	-73.98546
GPS Latitude:	40.396035
Viewpoint Elevation (ft):	254.78
Camera Height (ft):	5.41
Camera Heading (°):	105

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)

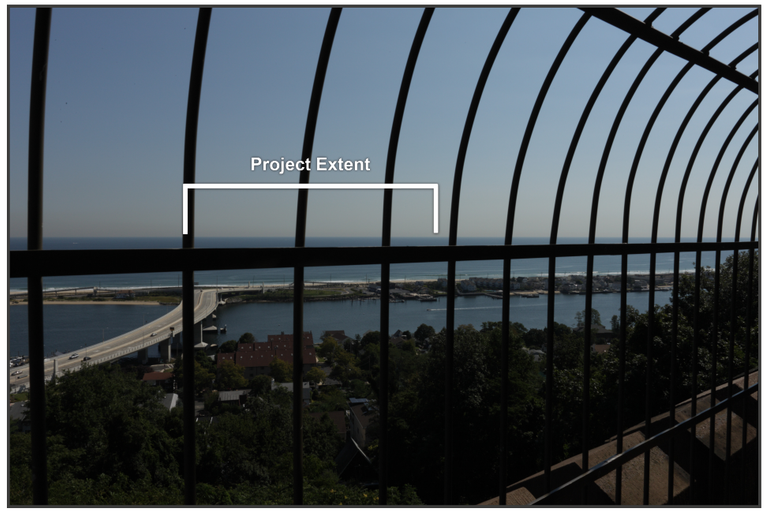
Sun And Weather Information

Sun Azimuth:	155.3163499
Sun Elevation:	48.69910796
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	25.6
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	3
Period (Seconds):	13
Temperature (°F):	72
Temperature (°C):	22
Humidity (%):	43

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



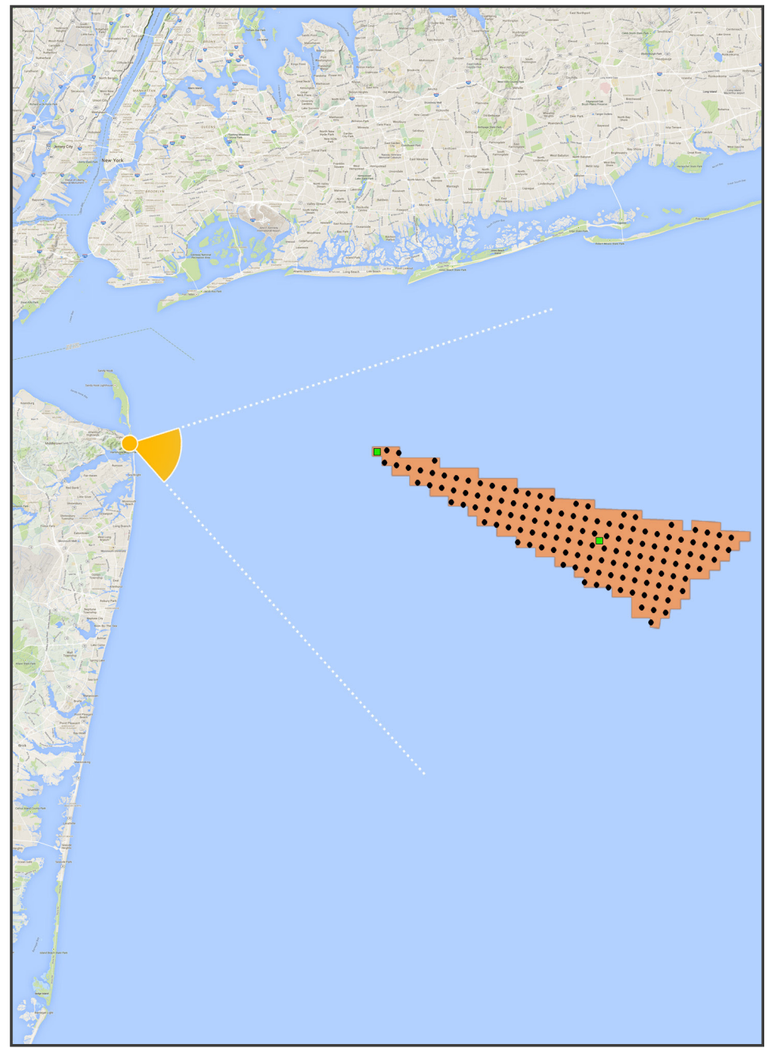
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Twin Light NHL, aka Navesink Light Station**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	9/18/2014
Time (24hr):	13:50
GPS Longitude:	-73.98546
GPS Latitude:	40.396035
Viewpoint Elevation (ft):	254.78
Camera Height (ft):	5.41
Camera Heading (°):	104

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:	203.2151068
Sun Elevation:	48.97839896
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	26.6
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	2.5
Period (Seconds):	12
Temperature (°F):	73
Temperature (°C):	23
Humidity (%):	38

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



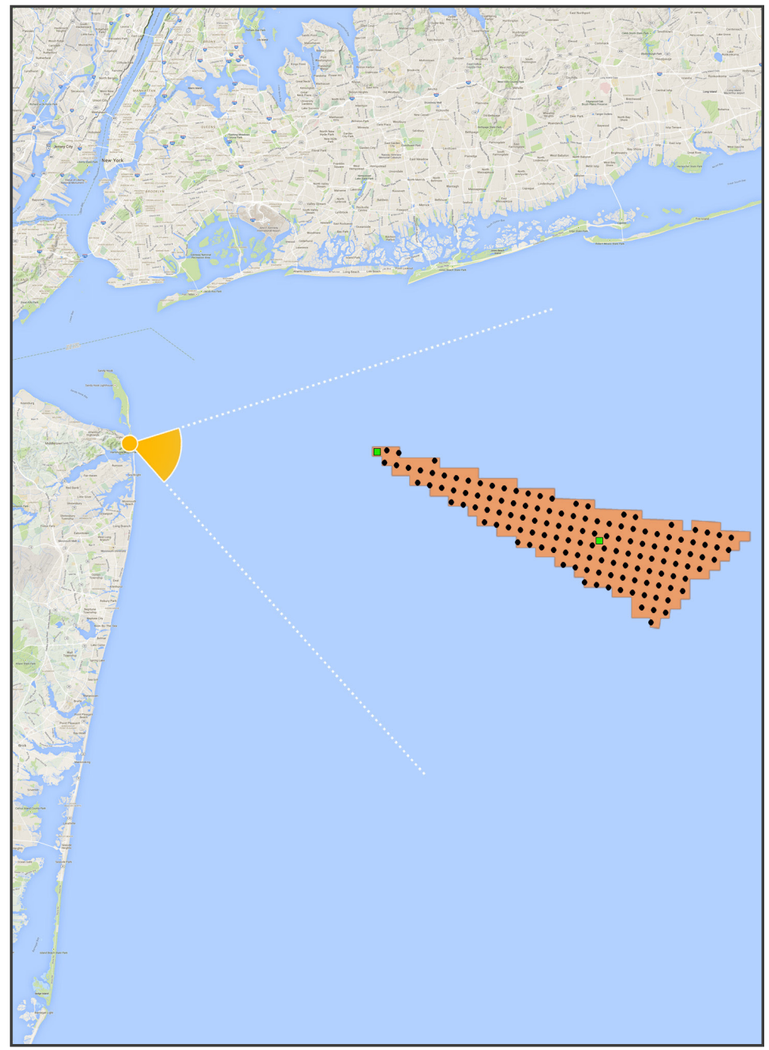
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - TWIN LIGHT NHL, AKA NAVESINK LIGHT STATION
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Rumson**
Season: Summer
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY):	9/5/2014
Time (24hr):	10:29
GPS Longitude:	-73.973794
GPS Latitude:	40.366991
Viewpoint Elevation (ft):	19.40
Camera Height (ft):	5.41
Camera Heading (°):	93

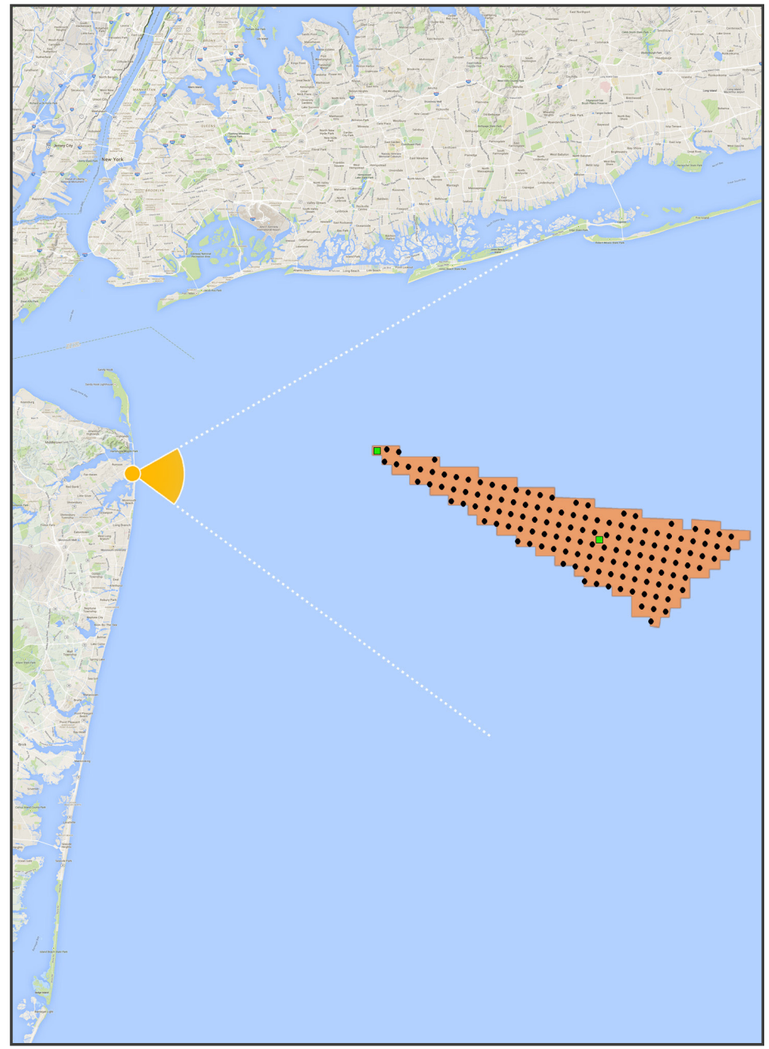
Camera Information

Camera Make & Model:	Canon EOS 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)

Image Preview



Context Map



Sun And Weather Information

Sun Azimuth:	126.0583082
Sun Elevation:	43.2089742
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	15.9
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	0.7
Period (Seconds):	8
Temperature (°F):	77
Temperature (°C):	25
Humidity (%):	74

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

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)

Scale Bar

Scale bar to be 4 inches wide (102 mm)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Rumson**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/5/2014
Time (24hr):	11:52
GPS Longitude:	-73.973794
GPS Latitude:	40.366991
Viewpoint Elevation (ft):	19.40
Camera Height (ft):	5.41
Camera Heading (°):	95

Camera Information

Camera Make & Model:	Can 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:	153.2456629
Sun Elevation:	53.51490366
Lighting Angle (On Turbines):	Right-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	17.5
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	0.8
Period (Seconds):	8
Temperature (°F):	79
Temperature (°C):	26
Humidity (%):	70

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



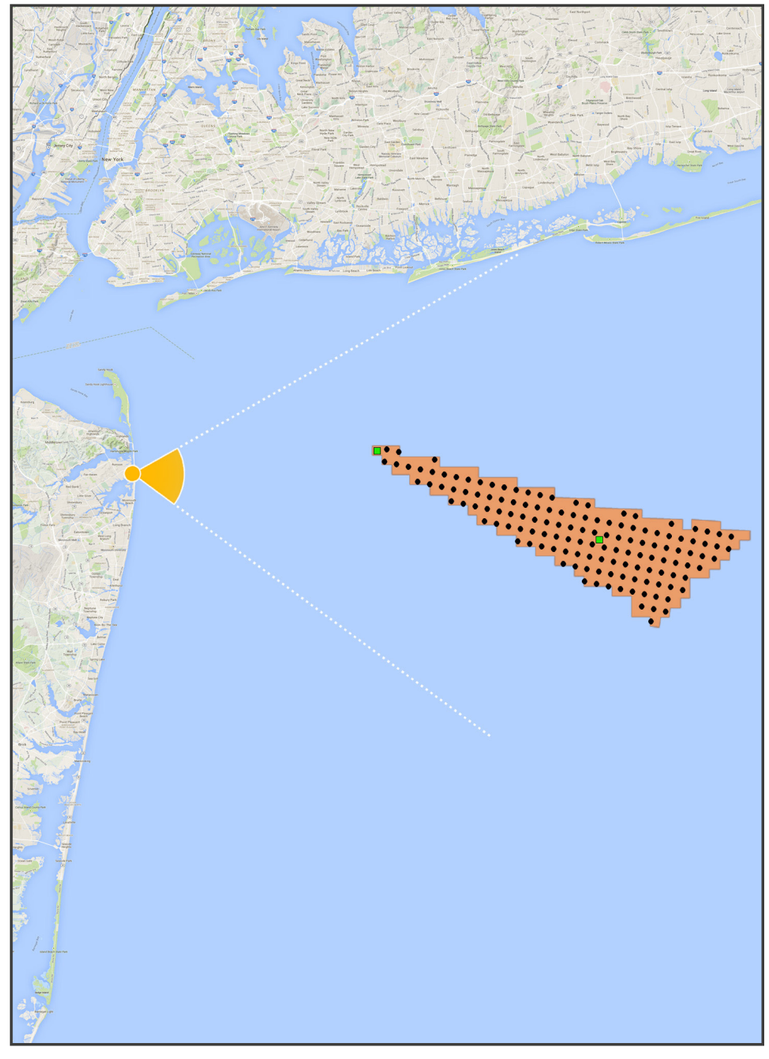
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Rumson**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	8/28/2014
Time (24hr):	14:40
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:	223.6377722
Sun Elevation:	51.64052205
Lighting Angle (On Turbines):	Front-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	26.4
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	5
Period (Seconds):	13
Temperature (°F):	77
Temperature (°C):	25
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



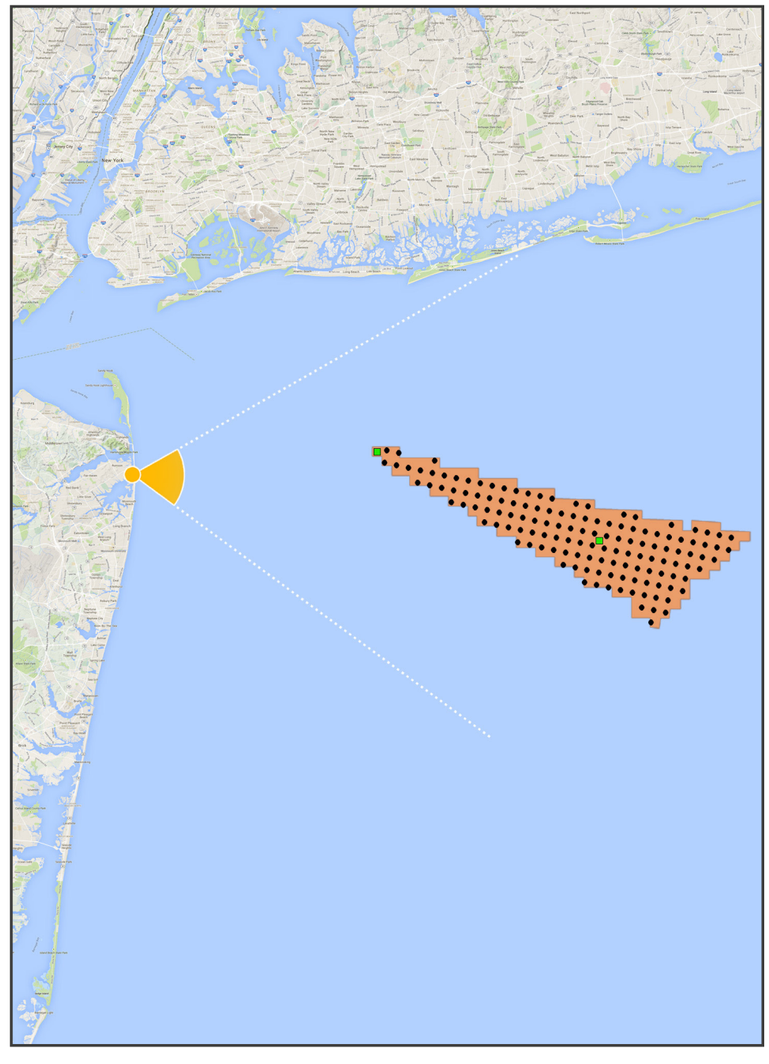
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - RUMSON
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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)

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KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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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KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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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KEY OBSERVATION POINT - RUMSON
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Asbury Park**
Season: Summer
Time of Day: Morning

Base Photographic Documentation

Date (MM/DD/YYYY):	9/5/2014
Time (24hr):	09:45
GPS Longitude:	-73.998334
GPS Latitude:	40.224404
Viewpoint Elevation (ft):	19.14
Camera Height (ft):	5.41
Camera Heading (°):	66

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)

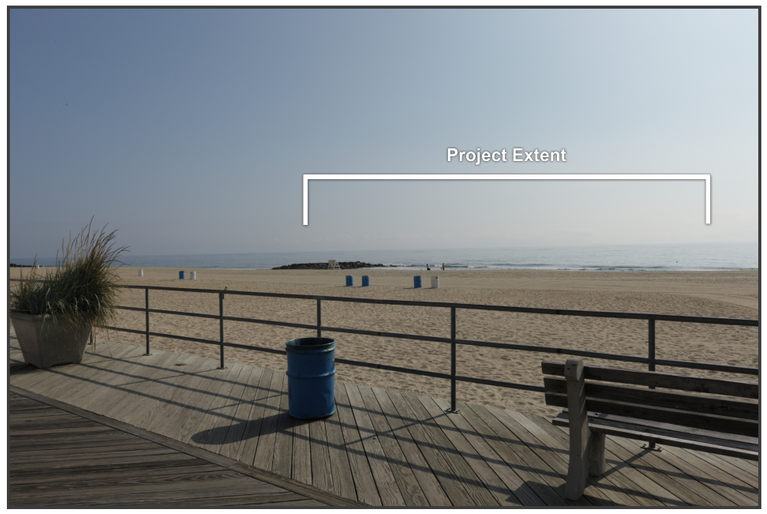
Sun And Weather Information

Sun Azimuth:	115.2469093
Sun Elevation:	36.05204795
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	11.8
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	0.9
Period (Seconds):	8
Temperature (°F):	77
Temperature (°C):	25
Humidity (%):	83

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



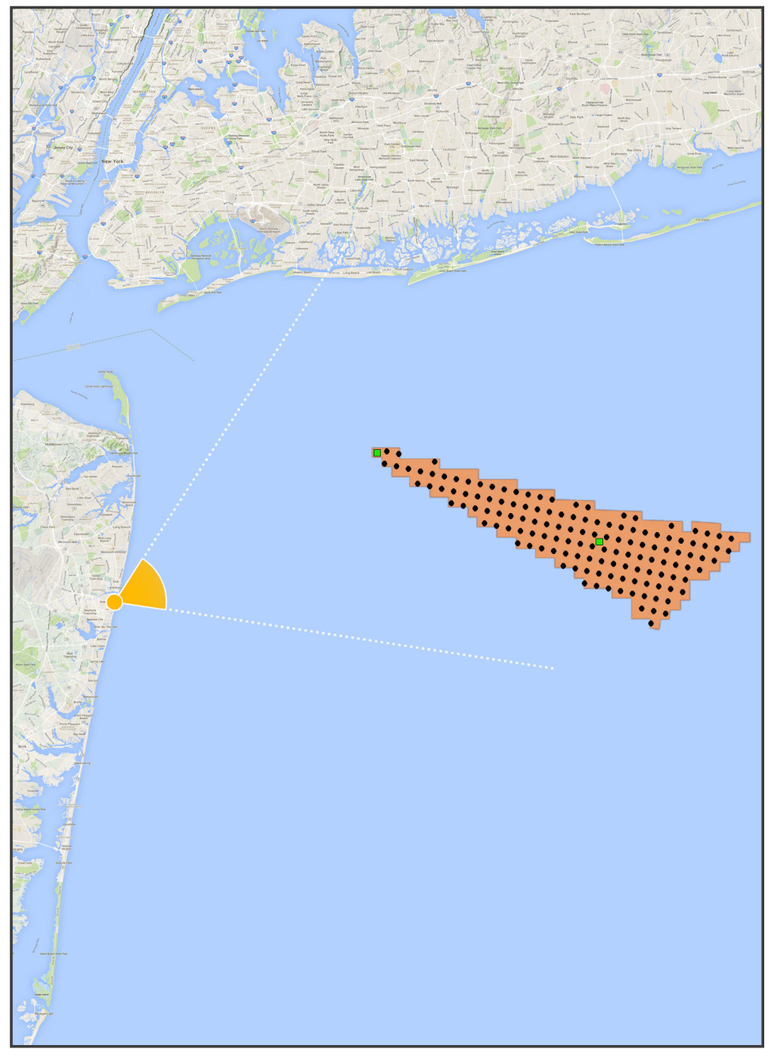
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
EXISTING CONDITIONS (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MORNING)

Truescape®



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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KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MORNING)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KOP: **Asbury Park**
Season: Summer
Time of Day: Midday

Base Photographic Documentation

Date (MM/DD/YYYY):	9/5/2014
Time (24hr):	11:18
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 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:	140.6828919
Sun Elevation:	50.08903177
Lighting Angle (On Turbines):	Back-Lit
Weather Conditions:	Partly-Cloudy
Maximum Visibility (NM):	15.9
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	0.8
Period (Seconds):	8
Temperature (°F):	79
Temperature (°C):	26
Humidity (%):	74

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



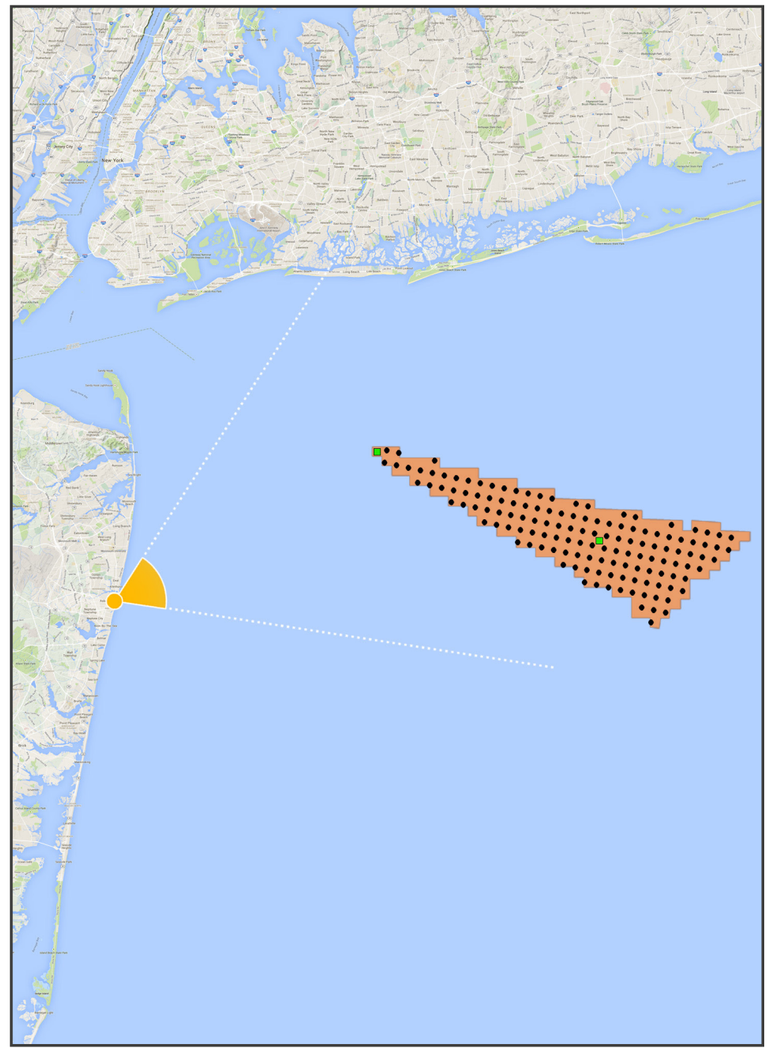
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
EXISTING CONDITIONS (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / MIDDAY)

Truescape®



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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KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / MIDDAY)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

URS BOEM Bureau of Ocean Energy Management Truescape®

KOP: **Asbury Park**
Season: Summer
Time of Day: Afternoon

Base Photographic Documentation

Date (MM/DD/YYYY):	8/28/2014
Time (24hr):	15:29
GPS Longitude:	-73.998334
GPS Latitude:	40.224404
Viewpoint Elevation (ft):	0.00
Camera Height (ft):	5.41
Camera Heading (°):	66

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:	238.2287833
Sun Elevation:	44.46624823
Lighting Angle (On Turbines):	Front-Lit
Weather Conditions:	Clear
Maximum Visibility (NM):	26.4
Average Predicted Visibility (NM):	16.3
Wave Height (ft):	4.5
Period (Seconds):	13
Temperature (°F):	77
Temperature (°C):	25
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



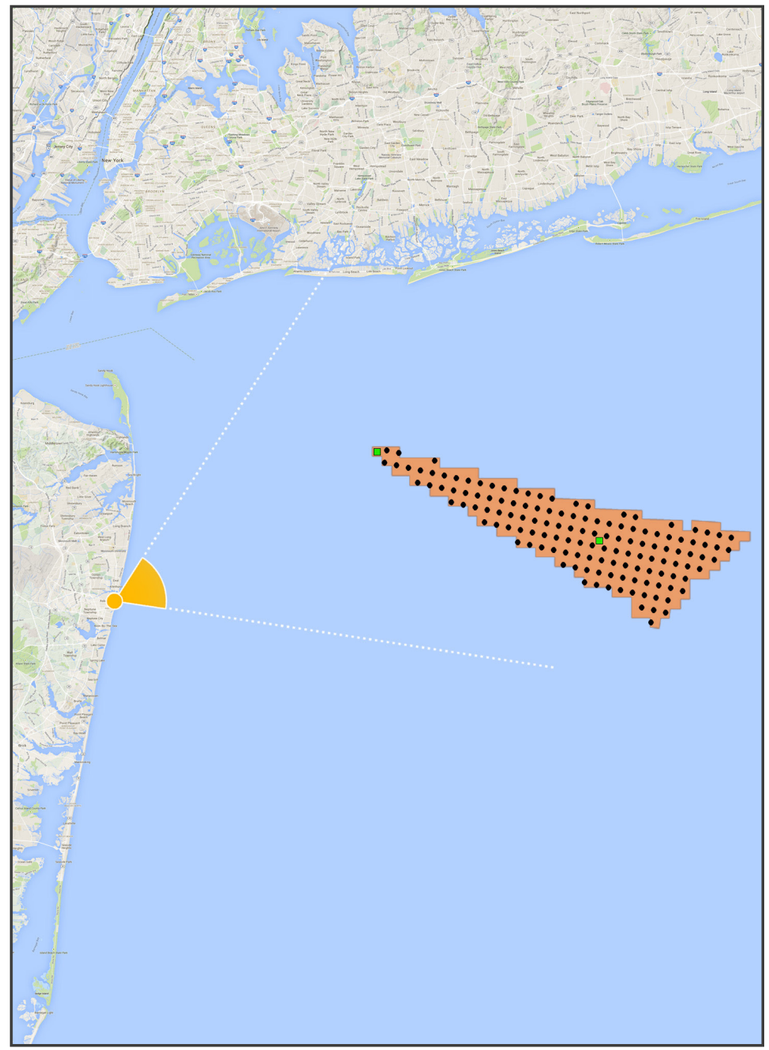
Turbine Information

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

Scale bar to be 4 inches wide (102 mm)

Context Map



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

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
EXISTING CONDITIONS (SUMMER / AFTERNOON)

Truescape®



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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KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER AVERAGE PREDICTED VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT UNDER MAXIMUM VISIBILITY (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.

KEY OBSERVATION POINT - ASBURY PARK
SIMULATION OF PROJECT: WIREFRAME (SUMMER / AFTERNOON)

Truescape®



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)

This simulation illustrates a hypothetical project and does not represent an actual or proposed project. Adherence to the viewing instructions provided on this page is necessary to ensure that the images are accurately portrayed.