

KOP 10: Barnegat Lighthouse | Season: Winter | Time of Day: Noon

### **Base Photographic Documentation**

Date (MM/DD/YYYY):	1/25/2023
Time (24hr):	12:29
GPS Longitude:	-74.10301908
GPS Latitude:	39.76364797
Viewpoint Elevation (ft):	157.203
Camera Height (ft):	5.64
Camera Heading (°):	94
Camera Direction:	Е

#### **Camera Information**

Camera Make & Model:

Camera Sensor Size:

Lens Make & Model:

Lens Focal Length:

Field of View:

Canon EOS 5DS R
36mm x 24mm
Sigma F1.4 DG HSM A016
20mm
65.47° (H) / 46.397° (V)

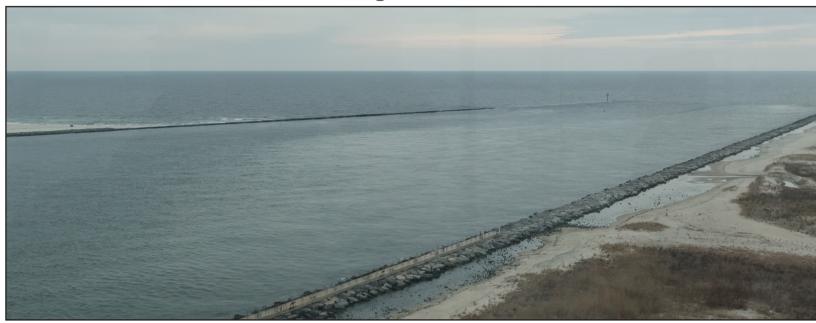
### **Sun And Weather Information**

Sun Azimuth:	185.65
Sun Elevation:	30.9
Lighting Angle (On Turbines):	Right Lit
Weather Conditions:	Overcast
Maximum Visibility (NM):	16.31
Temperature (°F):	44
Temperature (°C):	6.67
Humidity (%):	73

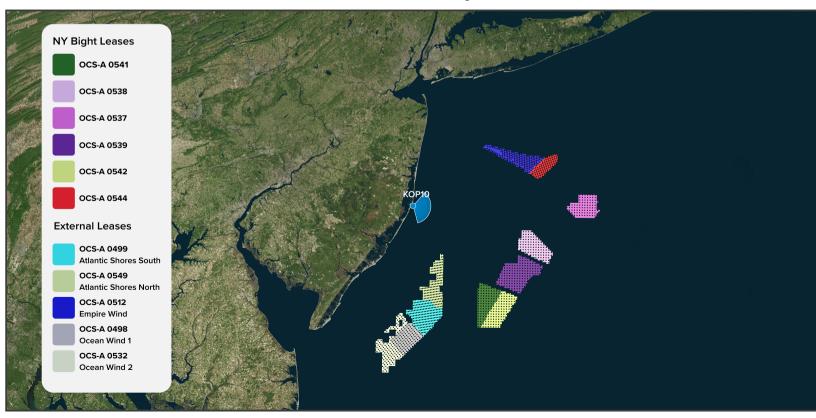
### **Viewing Instructions**

11 x 17 inch Printed Display: Distance is 19.7 inches (500mm)
On-Screen Display: Distance is 19.7 inches (500mm)

### **Image Preview**



**Context Map** 





KOP 10: Barnegat Lighthouse | Season: Winter | Time of Day: Noon

### NY Bight Turbine Information - 1312ft (399.9m)

Lease Area	Distance to	Tur	bines Vis	ible
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower
Total	-	1159	789	102
OCS-A 0544	57.03 (91.79)	23	0	0
OCS-A 0537	66.14 (106.44)	0	0	0
OCS-A 0538	42.67 (68.67)	260	96	0
OCS-A 0539	37.42 (60.23)	371	272	17
OCS-A 0541	32.26 (51.92)	246	246	85
OCS-A 0542	42.49 (68.37)	259	175	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	185.0 (56.3)
Percent of Nearest Turbine Hidden (%)	14.1%
Amount of Nearest Turbine Visible in ft (m)	1127.5 (343.6)
Percent of Nearest Turbine Visible (%)	85.9%

#### **NY Bight Turbine Specifications**

	-
Turbine Components	Measurements ft (m)
Rotor Diameter in ft (m)	1212 (369.4)
Total Height to Tip of Blade in ft (m)	1312 (399.9)
Hub Height in ft (m)	706 (215.2)
Support Structure Height in ft (m)	25 (7.6)
Service Platform in ft (m)	100 (30.5) × 200 (61.0) Steel Platform above MWS
Total Number of Turbines	1481

### NY Bight Turbine Information - 853ft (260m)

Lease Area	Distance to	Turbines Visible		ible
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower
Total	-	1009	111	0
OCS-A 0544	57.03 (91.79)	0	0	0
OCS-A 0537	66.14 (106.44)	0	0	0
OCS-A 0538	42.67 (68.67)	161	0	0
OCS-A 0539	37.42 (60.23)	344	20	0
OCS-A 0541	32.26 (51.92)	246	91	0
OCS-A 0542	42.49 (68.37)	258	0	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	185.0 (56.3)
Percent of Nearest Turbine Hidden (%)	21.6%
Amount of Nearest Turbine Visible in ft (m)	668.4 (203.7)
Percent of Nearest Turbine Visible (%)	78.4%

#### **NY Bight Turbine Specifications**

Turbine Components	Measurements ft (m)			
Rotor Diameter in ft (m)	722 (220.1)			
Total Height to Tip of Blade in ft (m)	853 (260)			
Hub Height in ft (m)	361 (110)			
Support Structure Height in ft (m)	25 (7.6)			
Service Platform in ft (m)	100 (30.5) × 200 (61.0) Steel Platform above MWS			
Total Number of Turbines	1481			

#### **External Turbine Information**

Lease Area	Distance to	Tur	bines Vis	ible
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower
Total	-	547	404	N/A
OCS-A 0499	27.3 (44.0)	200	200	N/A
OCS-A 0549	10.1 (16.2)	157	157	N/A
OCS-A 0512	50.2 (80.8)	34	0	N/A
OCS-A 0498	38.6 (62.2)	98	25	N/A
OCS-A 0532	35.4 (57.0)	58	22	N/A

### Cumulative Turbine Visibility (Total WTG Count for NY Bight + External Leases)

4040# (000 O)					
1312ft (399.9m)			853ft (260m)		
Blade Tip	Hub	Mid Tower	Blade Tip	Hub	Mid Tower
1706	1103	102	1556	515	Ο

The cumulative mid tower counts for both turbine heights are conservative values due to having no mid tower data for the external leases.

#### **External Turbine Specifications**

Lease Area	Rotor Diameter in ft (m)	Total Height to Tip of Blade in ft (m)	Hub Height in ft (m)	Support Structure Height in ft (m)
OCS-A 0499	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0549	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0512	853 (259.9)	951 (290)	525 (160)	25 (7.6)
OCS-A 0498	788 (240.1)	906 (276)	512 (156)	25 (7.6)
OCS-A 0532	788 (240.1)	906 (276)	512 (156)	25 (7.6)

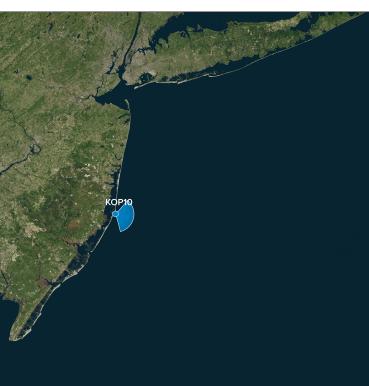


New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



Latitude: 39.76364797
Longitude: -74.10301908
Elevation of Viewpoint Position: 157.203
Height of Camera Above Ground: 5.64
Date of Photography: 1/25/2023 at 12:29
Horizontal Field of View: 124°
Vertical Field of View: 55°

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

59.25 in

59.25 in

79.7 in

80.7 in

90.7 in

19.7 in

19.7

ES:

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineering.

No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2) Provided by

Truescape.com

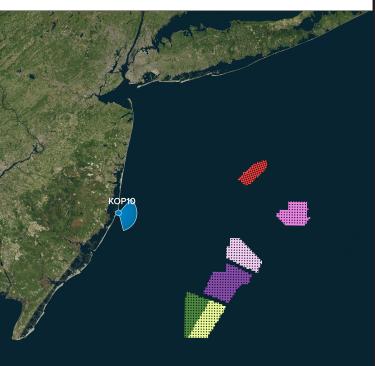
For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches





Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 51.4mi (82.7km) (OCS-A 0539)

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS

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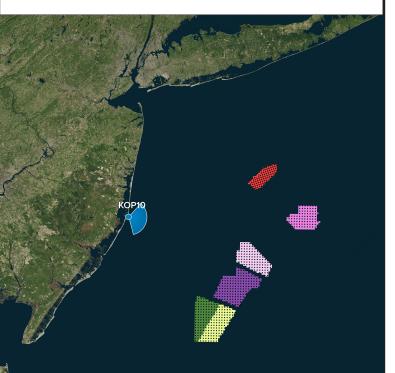
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Nearest Turbine: 32.3mi (52.0km) (OCS-A 0541)
Furthest Visible Turbine: 51.4mi (82.7km) (OCS-A 0539)

Horizontal Field of View the Projects Occupy: 63°

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

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For on-screen display
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1/25/2023 at 12:29 - KOP



For on-screen display: Scale bar to be 4 inch Viewing distance 19.7

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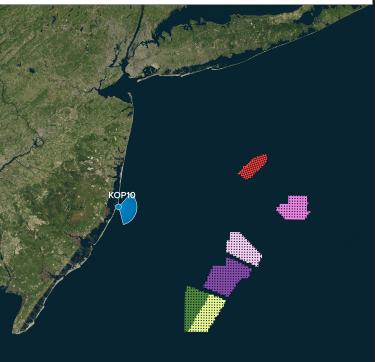
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KOP 10, Barnegat Lighthouse, Noon, Heading 94° - Proposed View - NY Bight Leases (853ft) - Maximum Visibility

Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 51.4mi (82.7km) (OCS-A 0539)

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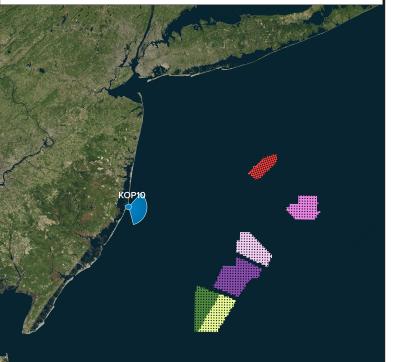
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For on-screen display:
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Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



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Horizontal Field of View the Projects Occupy: 63

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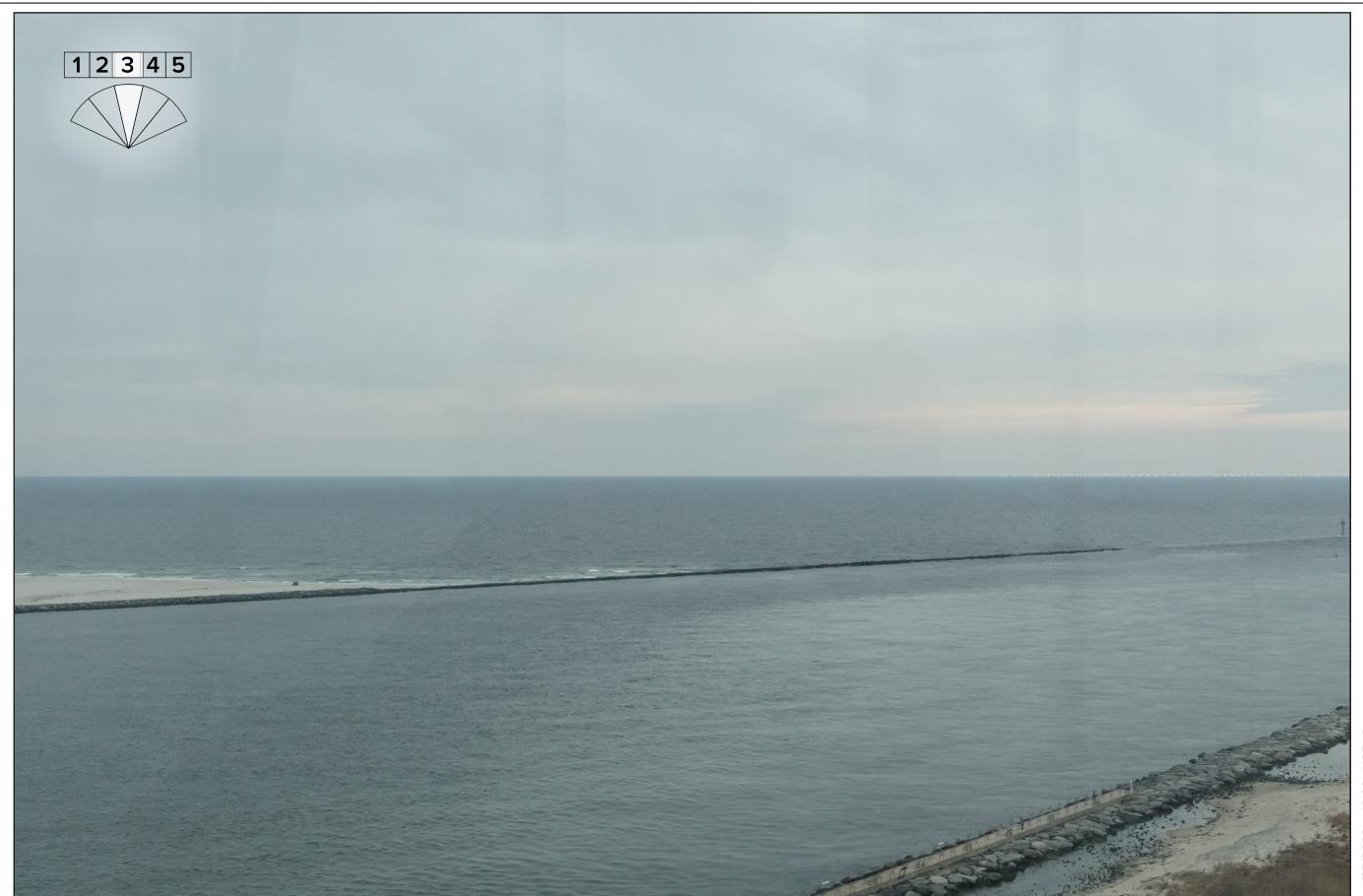
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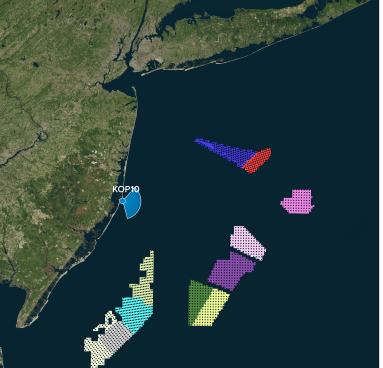
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New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



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Elevation of Viewpoint Position: 157.203
Height of Camera Above Ground: 5.64
Date of Photography: 1/25/2023 at 12:29
Horizontal Field of View: 124°
Vertical Field of View: 55°
Nearest Turbine: 10.1mi (16.3km) (OCS-A 0549)

Furthest Visible Turbine: **53.3mi (85.8km) (OCS-A 0512)**Horizontal Field of View the Projects Occupy: **169.6°** 

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New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

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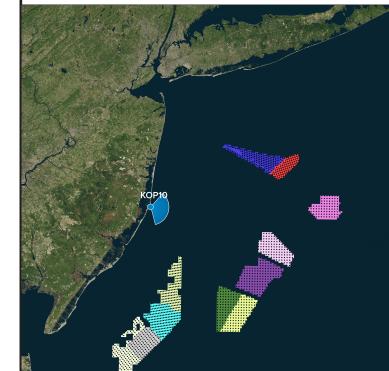
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Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



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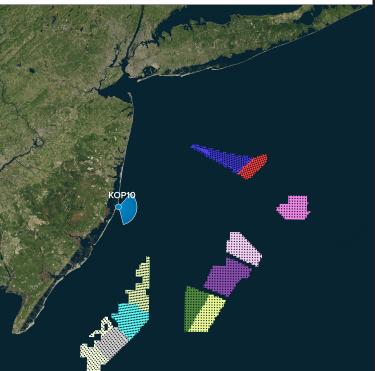
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Provided by

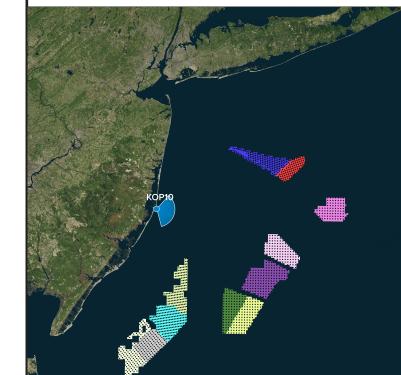
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Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



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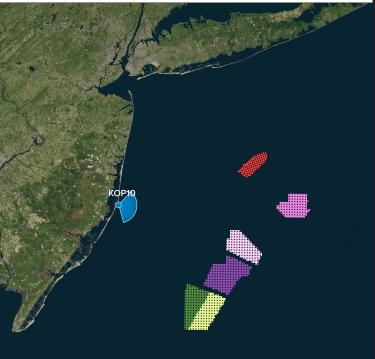


KOP 10, Barnegat Lighthouse, Noon, Heading 94° - Proposed View - NY Bight Leases (1312ft) - Predicted Visibility



Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 59.9mi (96.4km) (OCS-A 0544)

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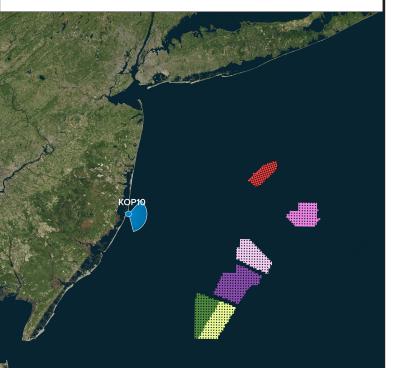
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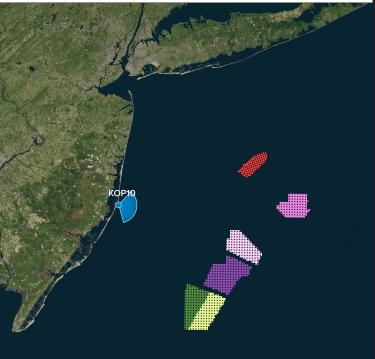


KOP 10, Barnegat Lighthouse, Noon, Heading 94° - Proposed View - NY Bight Leases (1312ft) - Maximum Visibility



Barnegat Lighthouse Camera Heading 94°

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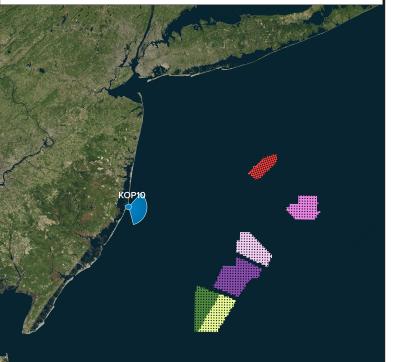
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Barnegat Lighthouse Camera Heading 94°

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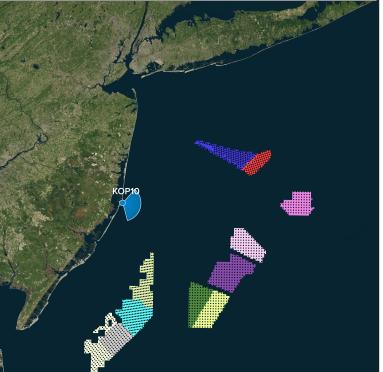


New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



Latitude: 39.76364797
Longitude: -74.10301908
Elevation of Viewpoint Position: 157.203
Height of Camera Above Ground: 5.64
Date of Photography: 1/25/2023 at 12:29
Horizontal Field of View: 124°
Vertical Field of View: 55°

Nearest Turbine: 10.1mi (16.3km) (OCS-A 0549)

Furthest Visible Turbine: **59.9mi (96.4km) (OCS-A 0544)**Horizontal Field of View the Projects Occupy: **169.6°** 

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

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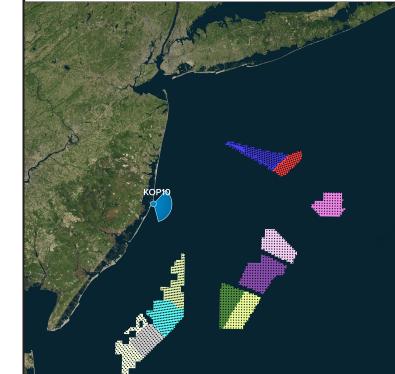
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KOP 10, Barnegat Lighthouse, Noon, Heading 94° - Proposed View - Cumulative - External Leases and NY Bight Leases (1312ft) - Predicted Visibility



Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



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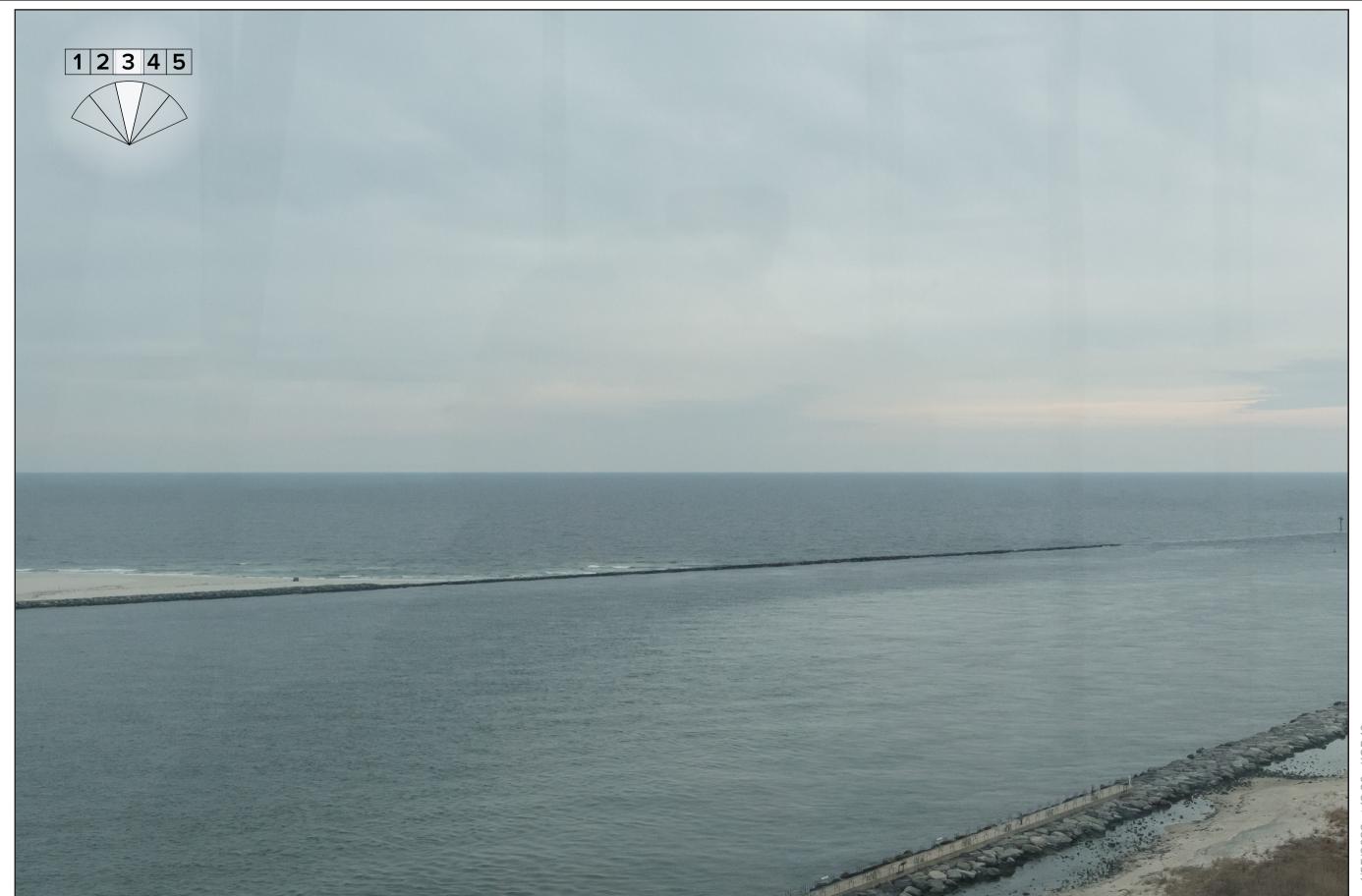
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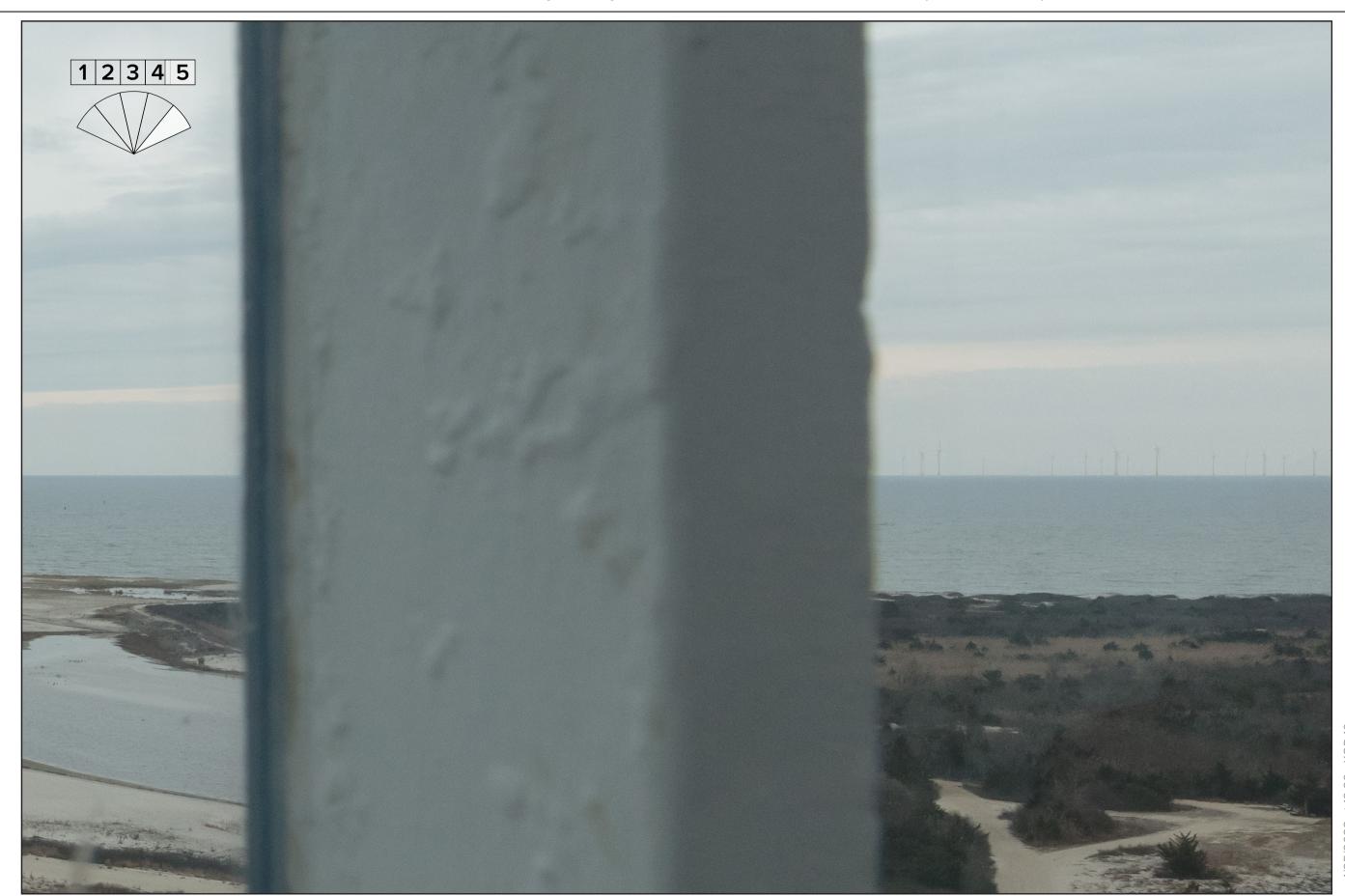


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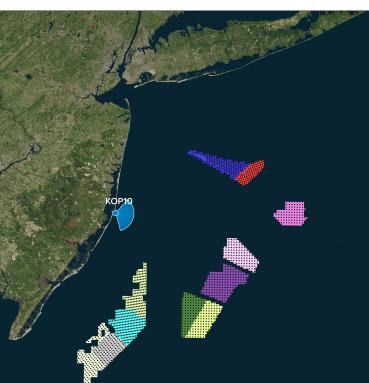
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Heights are above mean sea level.

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No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

Truescape®



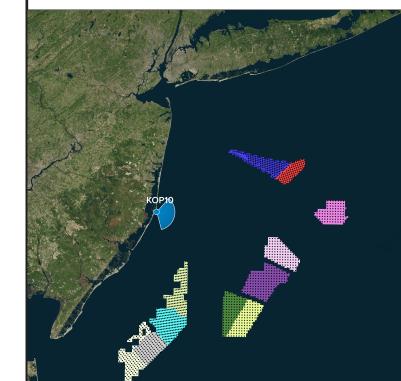
Argonne Argonatory

New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



Latitude: 39.76364797
Longitude: -74.10301908
Elevation of Viewpoint Position: 157.203
Height of Camera Above Ground: 5.64
Date of Photography: 1/25/2023 at 12:29
Horizontal Field of View: 124°
Vertical Field of View: 55°
Nearest Turbine: 10.1mi (16.3km) (OCS-A 0549)

Furthest Visible Turbine: **59.9mi (96.4km) (OCS-A 0544)**Horizontal Field of View the Projects Occupy: **169.6°** 

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

NOTES:
Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

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No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using

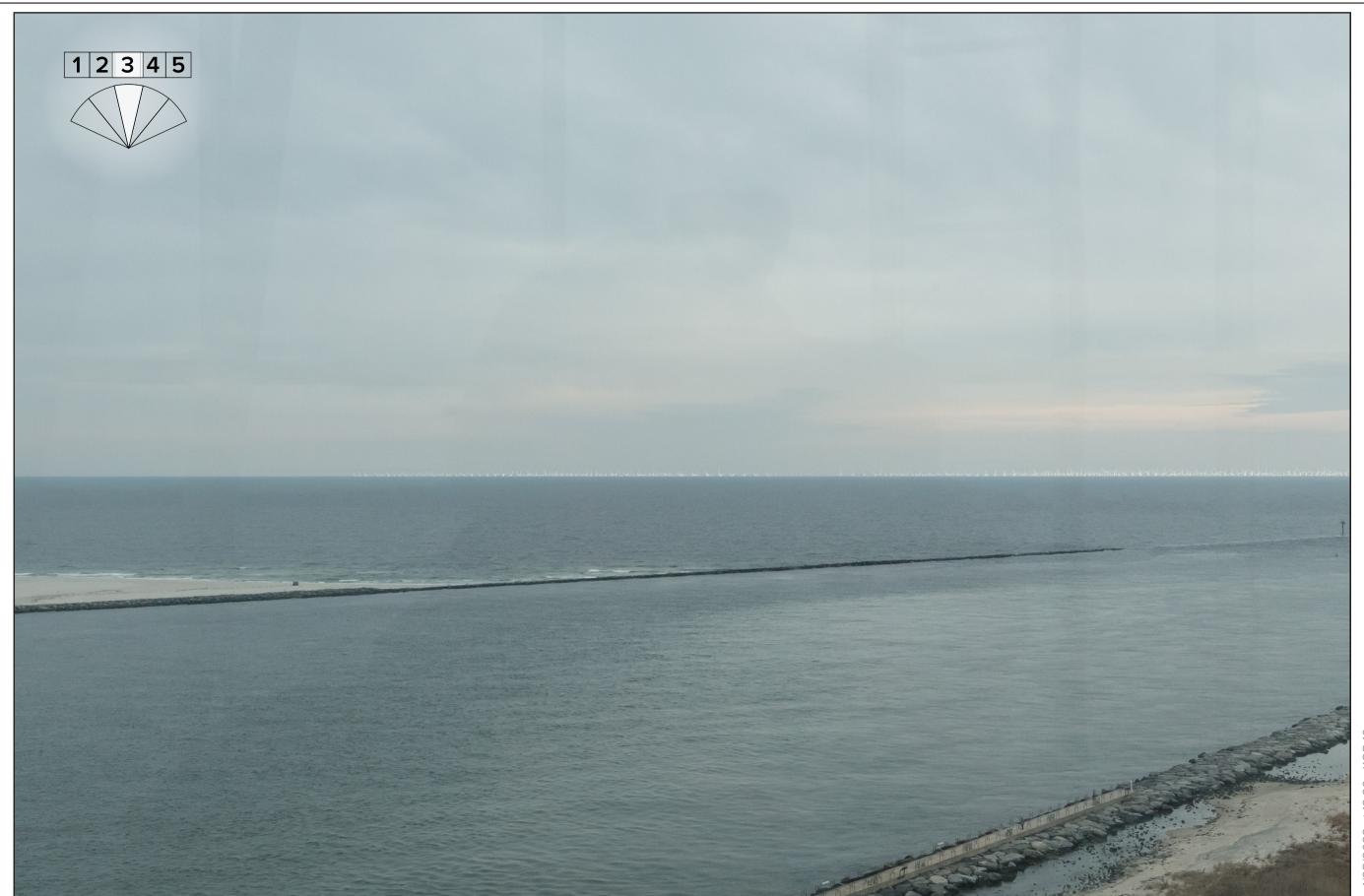
Photo Simulation Created Using
TrueView™ Technology
(Patent No.: US 8,184,906 B2)

Provided by

Truescape®







For on-screen display:
Scale bar to be 4 inch



For on-screen display: Scale bar to be 4 inches Viewing distance 19.7 in



For on-screen displa Scale bar to be 4 inc

25/2023 at 12:29 - KOP 1



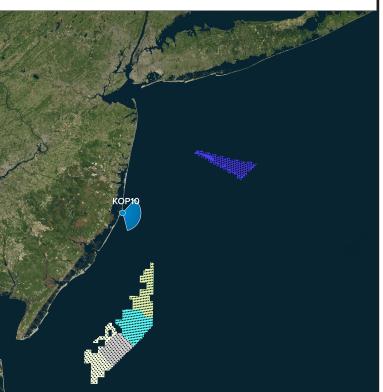
For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



Latitude: 39.7636
Longitude: -74.1030
Elevation of Viewpoint Position: 157
Height of Camera Above Ground:
Date of Photography: 1/25/2023 at 1/25/202

NOTES:

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

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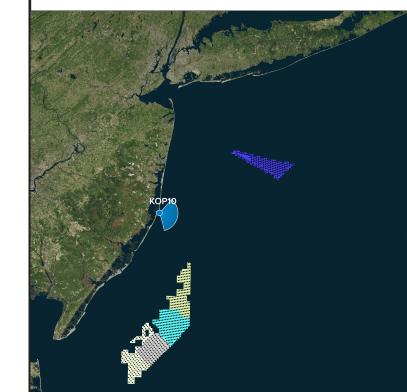
Photo Simulation Created Using

Photo Simulation Created Using
TrueView<sup>™</sup> Technology
(Patent No.: US 8,184,906 B2)



Barnegat Lighthouse Camera Heading 94°

Viewpoint LocationTurbines



Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View:

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

Heights are above mean sea level. Structure design and placement are subject to final engineering.

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

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For on-screen display: Scale bar to be 4 inch Viewing distance 19.7

25/2023 at 12:29 - KOP



25/2023 at 12:29 - KOP 1



KOP 10, Barnegat Lighthouse, Noon, Heading 94° - Proposed View - External Leases - Maximum Visibility

Argonne Argonal LABORATORY

New York Bigh

Barnegat Lighthouse

Camera Heading 94°

■ Viewpoint Location■ Turbines



Latitude: 39.7636479
Longitude: -74.1030190
Elevation of Viewpoint Position: 157.20
Height of Camera Above Ground: 5.6
Date of Photography: 1/25/2023 at 12:2
Horizontal Field of View: 59

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

OTES:

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineering.

No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

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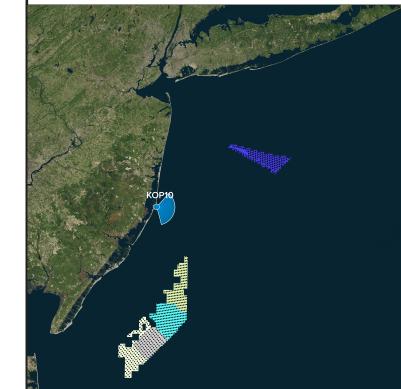
Argonne Argonation Arg

New York Bigh

Barnegat Lighthouse

Camera Heading 94°

Viewpoint LocationTurbines



Latitude: 39.76364797
Longitude: -74.10301908
Elevation of Viewpoint Position: 157.203
Height of Camera Above Ground: 5.64
Date of Photography: 1/25/2023 at 12:29
Horizontal Field of View: 124°
Vertical Field of View: 55°

CORRECT VIEWING OF TRUEVIEW<sup>TM</sup> PHOTO SIMULATIONS

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC

New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

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For on-screen disp Scale bar to be 4 in



1/25/2023 at 12:29 - KOP 10



25/2023 at 12:29 - KOP 1