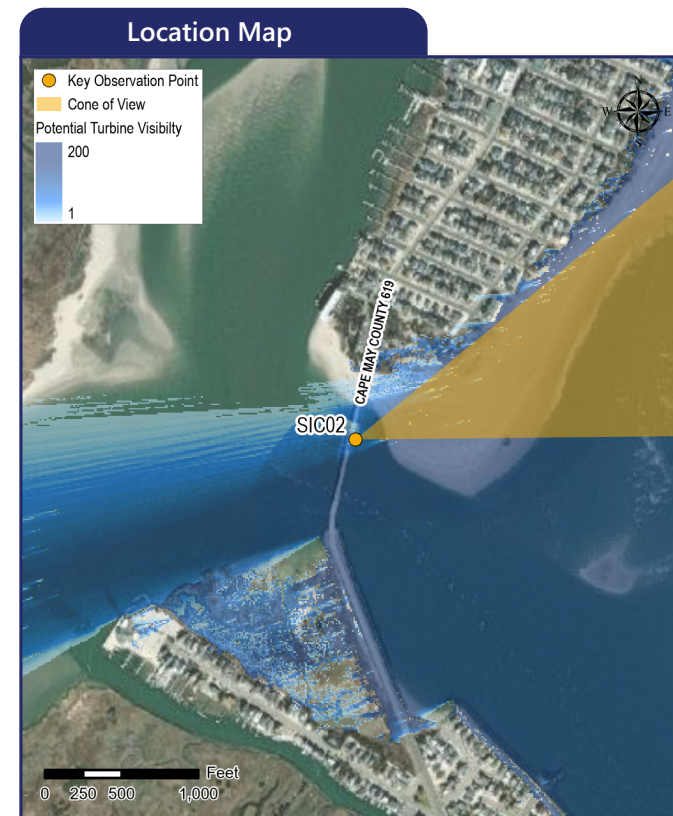


SIC02 Townsend's Inlet Bridge

Sea Isle City, Cape Map County, New Jersey



The image above is a +/- 124° panorama photograph from Townsend's Inlet Bridge, panning clockwise from north-northeast (left) to south-southeast (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.11919°N, 74.71579°W
 Character Area: Open Water/Ocean, Undeveloped Bay, Seascape (SCA)
 User Group: Residents/Tourists
 Direction of View: Northeast
 Distance to Nearest Visible Turbine: 27.35 miles
 Visually Sensitive Resource: Sea Isle City Beach Dune Upland, Townsend Inlet Bridge (SI&A #3100003)

Environmental Information

Date Taken: 08/25/2022
 Time: 4:58 PM
 Temperature: 84°F
 Humidity: 53%
 Visibility: 10 miles
 Wind Direction: South-southeast
 Wind Speed: 10 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 40.18 feet AMSL

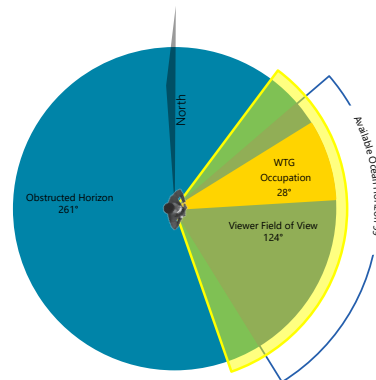
Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

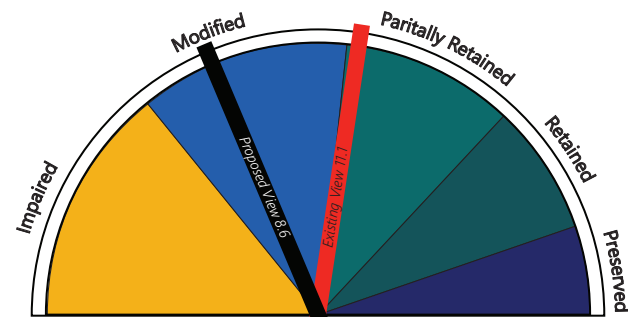
Simulated Photograph(s)



Field of View Visual Impact Rating



Impact Rating Summary



-2.5. Significant

Visual Threshold Level (VTL)

5 An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements (Sullivan et al., 2013).

Principles of Composition and Factors Affecting Visual Impact Summary

Design Elements	Description
Focal Point	Edge of surf and sand, pink-tinged horizon line.
Order	Inlet sand, ocean, horizon; sweeping landscape with the landform bending to the water before the view becoming strongly horizontal with the ocean a wedge between the sand and sky.
Visual Clutter	No visual clutter observed.
Movement	Boats and waves likely to be the source of movement. However, the traffic behind the viewer is likely to be most noticeable.
Duration & Frequency of View	Short Term/Fleeting Occasional
Atmospheric Conditions	The perfectly clear sky has a peachy glow this early in the morning.
Lighting Direction	Backlit & Side-Lit
Scenic or Recreational Value	While the resource photographed from is not recreational, the view portrays an accessible beach front and dunes landscape; Sea Isle City Beach Dune, Townsend Inlet Bridge

Compatibility and Contrast Rating Average

Townsend Inlet Bridge			
Resource	Compatibility	Scale	Spatial Dominance
Water Resources	2.4	2.1	2.4
Landform	2.3	1.8	1.8
Vegetation	1.8	1.3	2.0
Land Use	1.5	1.8	1.5
User Activity	1.5	1.5	1.5

1 – Compatible
 2 – Somewhat Compatible
 3 – Not Compatible
 1 – Minimal
 2 – Moderate
 3 – Severe
 1 – Subordinate
 2 – Co-Dominant
 3 – Dominant

Existing Conditions

Scenic Quality: Partially Retained
 Rating Panel Score Average: 11.1
 Rating Panel Score Range: 9.3 - 13.0

This view is from the Townsend's Inlet Bridge, a drawbridge over Townsend's Inlet with a vertical clearance of about 23 feet above the water. On September 17, 2018, the Townsend's Inlet Bridge closed for an \$8.6 million project to replace the bridge with a new span. The new bridge reopened on July 25, 2019. The bridge is a transportation link between Sea Isle City and Avalon, New Jersey, and is part of Ocean Drive, a series of local roads and bridges in southern New Jersey, connecting Atlantic City to Cape May along barrier islands on the Atlantic Ocean. Townsend's Inlet is an entry way to the Intercoastal Waterway from the ocean. The Inlet serves both commercial marine traffic as well as pleasure craft. It is also a favorite spot for local fishermen with jetties and back bay available.

The existing view to the northeast from the elevated surface of the bridge is a broad vista that includes a wide expanse of sandy beach and the open water of Townsend's Inlet. Grassy dunes and shoreline residential development line the beach on the left side, and a point of land with structures on it is visible on the opposite side of the water on the right. However, within the frame of the selected photo, the focus is the smooth surface of the beach at low tide. The beach includes two people and some shore birds, but otherwise appears deserted. The exposed sand wraps around a point of land and disappears out of sight to the left. This early morning view is looking into the sun. Wet sand and small waves at the shoreline give way to dark open water that extends to the horizon, where it meets the bright morning sky. The sky transitions from a light orange at the horizon to white and light blue overhead. Except for the nearby residential structures (outside the selected field of view), the beach appears natural and undisturbed.

Rating panel members indicated that, although viewed from a transportation way, the existing view is available to both pedestrians, fishermen, and vehicular passengers by way of the sidewalks on each side of the roadway. The view is simple in its composition with an open vista to the dune vegetation, rolling surf, and ocean without a significant focal point to direct and focus the view. The view will be experienced by passersby for a varying amount of time depending upon their mode of transportation. The warm tones of the sand and rosy-pink hue in the sky compliments the pale blue color of the ocean and draws the viewer's attention to the brightness of the horizon. Rating panel scores for the existing conditions photographs ranged from 9.3 to 13.0 (average score = 11.1). The rating panel score for this KOP indicates that this view is partially retained.

Proposed Conditions

Scenic Quality: Modified
 Rating Panel Score Average: 8.6
 Rating Panel Score Range: 6.0 - 11.0
 Impact Magnitude: 2.5 (Significant)

Viewshed analysis suggests that views of the full Project could be available from the bridge and the open water of Townsend Inlet. Views are also possible from the nearby beach and areas of undeveloped land inland from the shoreline. However, those views are quickly blocked as one moves from open water and undeveloped shoreline into adjacent developed areas.

With the proposed Project in place, the view is dominated by an expansive and highly visible array of WTGs that spread across a large portion of the ocean view to the northeast-southeast from this location. Of the 94 degrees of relatively unobstructed ocean horizon, the Project occupies approximately 28 degrees or 29.8 percent of the view (see Field of View Image, left). Project visibility is slightly mitigated by the relative proximity of the WTGs (27.35-miles); however, their slender profiles are backlit by the rising sun, which makes the WTGs appear dark against the sky. Rating panel members had a somewhat variable range of reactions to the impact resulting from the Project WTGs, with the VIA scores ranging from 6.0 to 11.0 (average score = 8.6). These scores indicate an average reduction of 2.5 points suggesting significant visual impacts could occur under the clear conditions presented in this photosimulation. Individual rating panel members indicating reductions that ranged from 0.7 to 7.0. Panel members indicated that the presence of the WTGs provides an organizing focal element to the view; however, the strong vertical lines dominate and change the seascape due to the introduction of an industrialized element into the once unobstructed view to the horizon. This organized WTG placement and the line-up/stacking of visible WTGs creates darker and denser forms in a portion of the view until the WTGs splay outward to the northeast and their position becomes more irregular. The movement of the rotor blades will also attract viewer attention and will highlight the WTGs as the focus of this view. However, the visibility and visual dominance of the WTGs is likely to be reduced under more hazy or foggy sky conditions, or when the WTGs are front lit and whiter in color against the sky. With the Project in place, the rating panel scores indicate that this view has become modified.

The panel members assigned the Project visibility an average VTL of 5 from this KOP. The panel indicated that the WTGs are somewhat compatible with the ocean (water resources), landform, vegetation, land use, and user activity. Additionally, the Project would result in moderate scale contrast with the ocean, landform, land use, and viewer activity. They would also be a co-dominant feature considering the ocean, landform, vegetation, land use and user activity.

SIC02 Townsend's Inlet Bridge

Sea Isle City, Cape May County, New Jersey

KOP Information

Primary Field of View: East

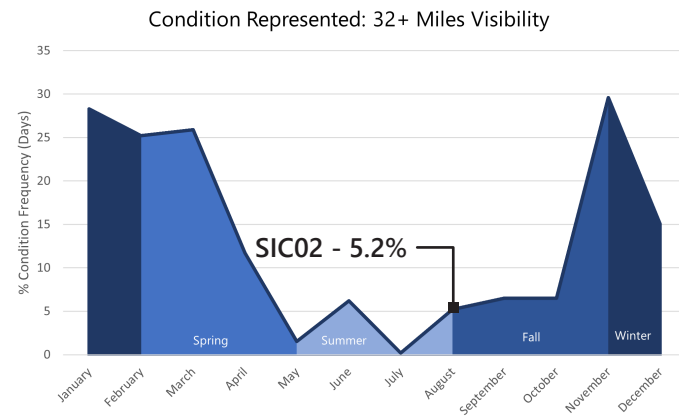
Distance to Closest WTG: 27.35 miles

Camera Height: 40.18 ft

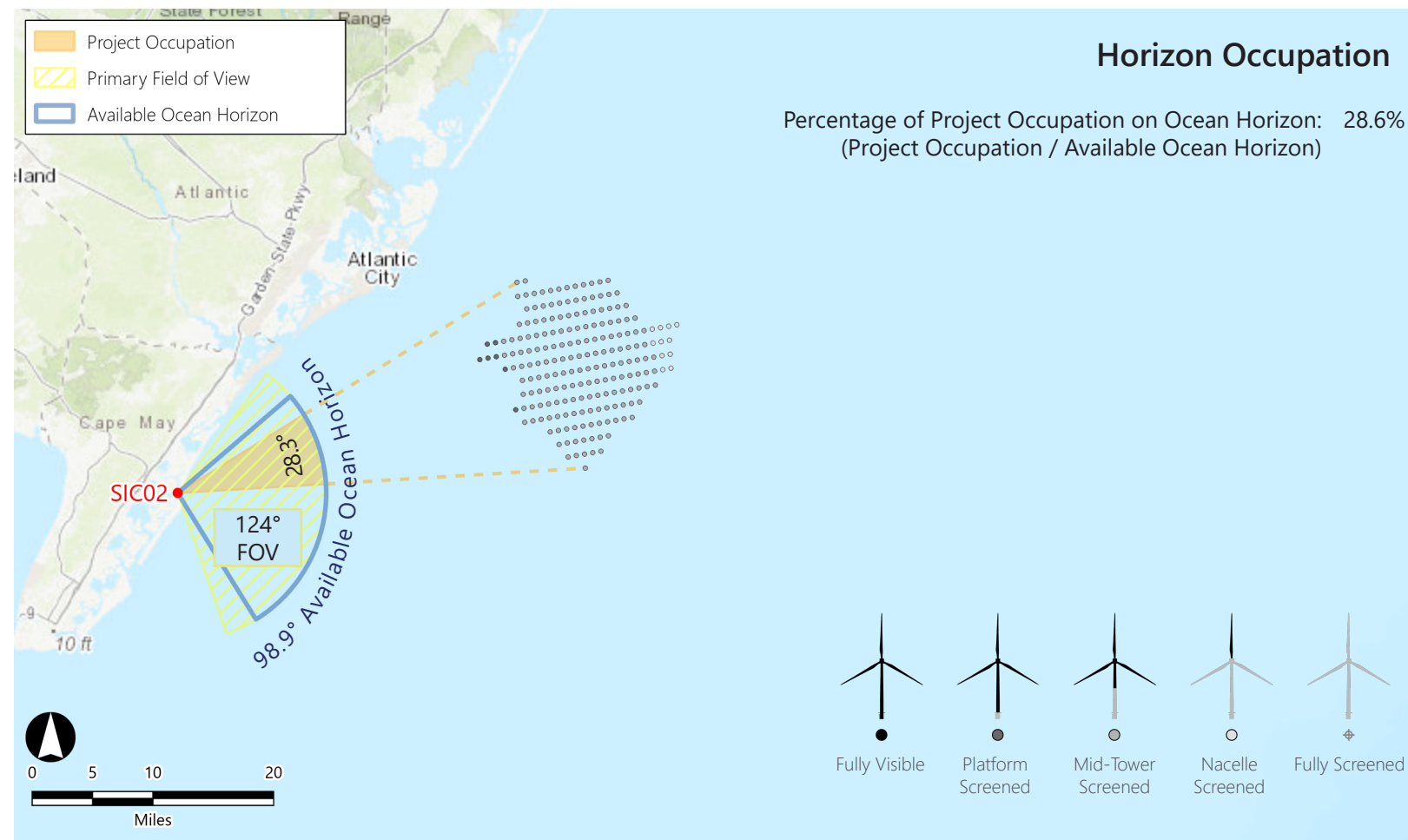
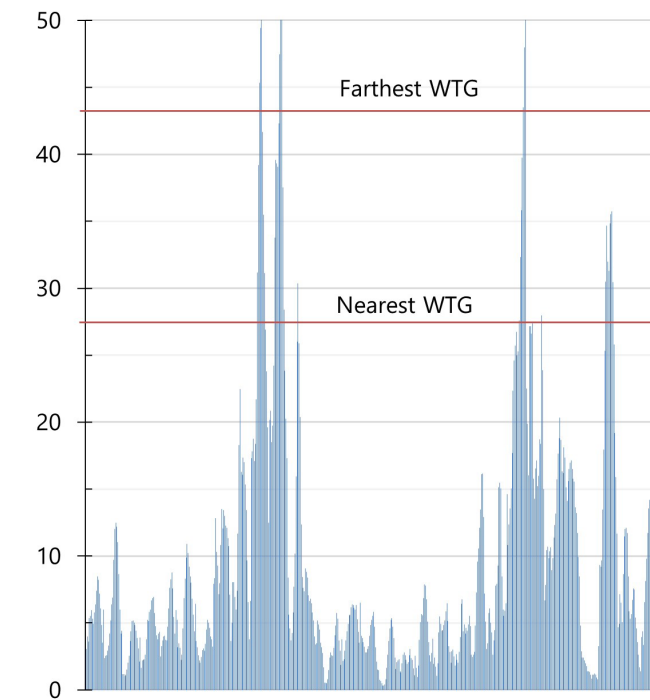
User Groups: Residents, Tourists

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



August, 2019 - Hourly Visibility Distance



WTG Color Contrast

Color Contrast Rating:



Lighting Condition: Back lit

Season: Fall

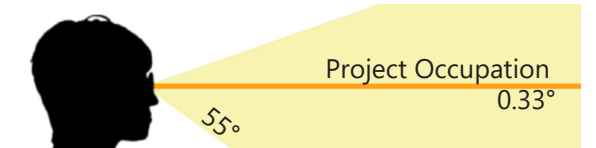
Sky Condition: Fair

Atmospheric Condition: > 10 Miles

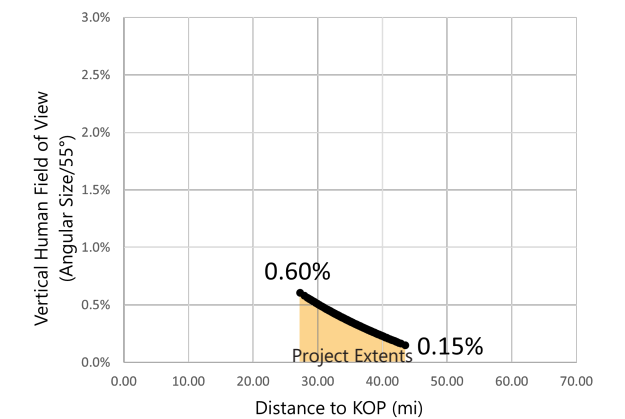
SIMILAR VIEWING PARAMETERS:

KOP BT01 Illustrates the project from 30.25 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.

Vertical Occupation



Percentage of Human FOV: 0.60% (0.33 / 55°)
(Considering the nearest visible turbine)



Existing Conditions



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation



Atlantic Shores Offshore Wind Project

Outer Continental Shelf - New Jersey
Key Observation Point: SIC02 - Townsend's Inlet Bridge
Attachment E: Photosimulations: Page 154 of 159

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