

Visibility Analysis

Figure 1: Viewshed/Photo Location Map
South Hill Road Wind Project
Town of Villenova, Chautauqua County, NY

Legend

- Area of Likely Turbine Visibility (Incl. screening vegetation)
- Photo Locations
- Tower Location



Note: Viewshed mapping provides a general understanding of where the proposed project is theoretically visible based on regional topographic, forest and building cover data sources.

This "Land Cover" condition viewshed area includes the screening effect of intervening vegetation and buildings. The location and height of vegetated areas and buildings is based on USGS NYSGPO_Southwest17_Spring_LiDAR data acquired from NYSGIS Clearinghouse.

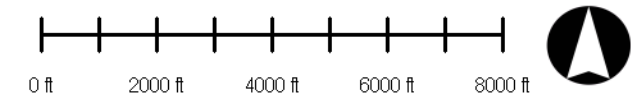




Photo 1 - NY83 at Pine Valley Central School
EXISTING CONDITION

Photograph Information

Date: May 23, 2023
Time: 10:05 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 23.9549" N
79° 05' 24.5277" W
Distance to Nearest Turbine: 2.0 miles



Turbines screened by intervening building and vegetation

Photo 1 - NY-83 near Pine Valley Central School
SIMULATED CONDITION

Photograph Information

Date: May 23, 2023
Time: 10:05 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 23.9549" N
79° 05' 24.5277" W
Distance to Nearest Turbine: 2.0 miles



Photo 2 - Intersection of Main Street and Southside Avenue
EXISTING CONDITION

Photograph Information

Date: May 23, 2023
 Time: 8:40 AM
 Focal Length: 61 mm
 Camera: Canon EOS 6D Mark II

Photo Location: 42° 17' 39.3660" N
 79° 05' 58.0559" W
 Distance to Nearest Turbine: 4.3 miles

Figure 3A
PHOTO SIMULATIONS



Photo 2 - Intersection of Main Street and Southside Avenue
SIMULATED CONDITION

Photograph Information

Date: May 23, 2023
Time: 8:40 AM
Focal Length: 61 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 17' 39.3660" N
79° 05' 58.0559" W
Distance to Nearest Turbine: 4.3 miles

Figure 3B
PHOTO SIMULATIONS



Photo 3 - Farrington Hollow Road near 7925 Farrington Hollow Road
EXISTING CONDITION

Photograph Information

Date: May 23, 2023
Time: 9:07 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 34.1520" N
79° 10' 25.3680" W
Distance to Nearest Turbine: 2.5 miles



Photo 3 - Farrington Hollow Road
SIMULATED CONDITION

Photograph Information

Date: May 23, 2023
Time: 9:07 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 34.1520" N
79° 10' 25.3680" W
Distance to Nearest Turbine: 2.5 miles



Photo 4 - NY83 at Hamlet United Methodist Church
EXISTING CONDITION

Photograph Information

Date: May 23, 2023
Time: 9:24 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 44° 22' 11.9100" N
79° 08' 04.1699" W
Distance to Nearest Turbine: 0.9 miles



Turbines partially visible through intervening vegetation (leaf-on season)

Photo 4 - NY83 at Hamlet United Methodist Church
SIMULATED CONDITION

Photograph Information

Date: May 23, 2023
Time: 9:24 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 44° 22' 11.9100" N
79° 08' 04.1699" W
Distance to Nearest Turbine: 0.9 miles

Figure 5B
PHOTO SIMULATIONS



Photo 5 - Villenova Cemetery
EXISTING CONDITION

Photograph Information

Date: May 23, 2023
 Time: 9:49 PM
 Focal Length: 55 mm
 Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 35.1674" N
 79° 05' 50.0729" W
 Distance to Nearest Turbine: 1.6 miles

Figure 6A
PHOTO SIMULATIONS



Turbines screened by intervening vegetation (leaf-on season)

Photo 5 - Villenova Cemetery
SIMULATED CONDITION

Photograph Information

Date: May 23, 2023
 Time: 9:49 PM
 Focal Length: 55 mm
 Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 35.1674" N
 79° 05' 50.0729" W
 Distance to Nearest Turbine: 1.6 miles

Figure 6B
PHOTO SIMULATIONS



Photo 6 - Wentworth Road at Cassadaga Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:03 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 54.4975" N
79° 09' 34.2019" W
Distance to Nearest Turbine: 1.8 miles



Photo 6 - Wentworth Road at Cassadaga Road
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:03 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 54.4975" N
79° 09' 34.2019" W
Distance to Nearest Turbine: 1.8 miles



Photo 7 - Farrington Hollow Road near Tri Val Farms
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:11 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 31.8276" N
79° 11' 09.4524" W
Distance to Nearest Turbine: 3.0 miles



Photo 7 - Farrington Hollow Road near Tri Val Farms
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:11 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 31.8276" N
79° 11' 09.4524" W
Distance to Nearest Turbine: 3.0 miles



Photo 8 - Cassadaga Road near 1226 Cassadaga Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:17 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 03.0432" N
79° 08' 29.7780" W
Distance to Nearest Turbine: 1.0 miles



Photo 8 - Cassadaga Road near 1226 Cassadaga Road
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:17 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 03.0432" N
79° 08' 29.7780" W
Distance to Nearest Turbine: 1.0 miles



Photo 9 - Dybkas Road near 1225 Dybkas Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:24 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 53.4579" N
79° 08' 19.2160" W
Distance to Nearest Turbine: 0.7 miles



Photo 9 - Dybkas Road near 1225 Dybkas Road
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:24 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 53.4579" N
79° 08' 19.2160" W
Distance to Nearest Turbine: 0.7 miles



Photo 10 - NY-83 near 935 NY-83
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:31 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 07.2120" N
79° 07' 18.3108" W
Distance to Nearest Turbine: 0.4 miles



Photo 10 - NY-83 near 935 NY-83
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:31 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 22' 07.2120" N
79° 07' 18.3108" W
Distance to Nearest Turbine: 0.4 miles



Photo 11 - Aldritch Hill Road near 8079 Aldritch Hill Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:38 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 09.3204" N
79° 06' 44.2548" W
Distance to Nearest Turbine: 0.7 miles



Photo 11 - Aldritch Hill Road near 8079 Aldritch Hill Road
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:38 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 09.3204" N
79° 06' 44.2548" W
Distance to Nearest Turbine: 0.7 miles



Photo 12 - Weaver Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:45 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 19' 34.3956" N
79° 06' 54.5148" W
Distance to Nearest Turbine: 1.9 miles



Photo 12 - Weaver Road
SIMULATED CONDITION

SARATOGA
ASSOCIATES

Photograph Information

Date: August 25, 2023
Time: 9:45 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 19' 34.3956" N
79° 06' 54.5148" W
Distance to Nearest Turbine: 1.9 miles



Figure 13B
PHOTO SIMULATIONS
South Hill Road Wind Energy Project
Town of Villenova, Chautauqua County, NY



Photo 13 - NY-83 near 7626 NY-83
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:53 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 19' 51.7656" N
79° 05' 24.6948" W
Distance to Nearest Turbine: 2.3 miles



Photo 13 - NY-83 near 7626 NY-83
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:53 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 19' 51.7656" N
79° 05' 24.6948" W
Distance to Nearest Turbine: 2.3 miles



Photo 14 - NY-83 near Pine Valley High School
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:55 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 10' 05.2448" N
79° 05' 24.5112" W
Distance to Nearest Turbine: 2.2 miles



Photo 14 - NY-83 near Pine Valley High School
SIMULATED CONDITION

SARATOGA
ASSOCIATES

Photograph Information

Date: August 25, 2023
Time: 9:55 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 10' 05.2448" N
79° 05' 24.5112" W
Distance to Nearest Turbine: 2.2 miles



Figure 15B
PHOTO SIMULATIONS
South Hill Road Wind Energy Project
Town of Villenova, Chautauqua County, NY



Photo 15 - Intersection of Mile Strip Road and Kent Switch Road
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:59 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 14.6760" N
79° 04' 42.8196" W
Distance to Nearest Turbine: 2.6 miles



Photo 15 - Intersection of Mile Strip Road and Kent Switch Road
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 9:59 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 14.6760" N
79° 04' 42.8196" W
Distance to Nearest Turbine: 2.6 miles



Photo 16 - NY-83 near 7959 NY-83
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 10:04 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 47.4036" N
79° 05' 24.4536" W
Distance to Nearest Turbine: 1.8 miles



Photo 16 - NY-83 near 7959 NY-83
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 10:04 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 20' 47.4036" N
79° 05' 24.4536" W
Distance to Nearest Turbine: 1.8 miles

Figure 17B
PHOTO SIMULATIONS



Photo 17 - NY-83 near 8138 NY-83
EXISTING CONDITION

Photograph Information

Date: August 25, 2023
Time: 10:07 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 18.0072" N
79° 05' 26.1312" W
Distance to Nearest Turbine: 1.7 miles



Photo 17 - NY-83 near 8138 NY-83
SIMULATED CONDITION

Photograph Information

Date: August 25, 2023
Time: 10:07 AM
Focal Length: 50 mm
Camera: Canon EOS 6D Mark II

Photo Location: 42° 21' 18.0072" N
79° 05' 26.1312" W
Distance to Nearest Turbine: 1.7 miles