



**Environmental Design & Research,**  
Landscape Architecture, Engineering & Environmental Services, D.P.C.  
217 Montgomery Street, Suite 1000, Syracuse, New York 13202  
P. 315.471.0688 • F. 315.471.1061 • www.edrdpc.com

April 1, 2015

MUNICIPAL PLANNING REPRESENTATIVES  
PER ATTACHED DISTRIBUTION LIST

**RE: Cassadaga Wind Project  
Identification of Visually Sensitive Resources**

Dear MUNICIPAL PLANNING REPRESENTATIVE:

As you may be aware, Cassadaga Wind, LLC is proposing to construct a 126 megawatt (MW) wind power project (“the Project”) in the Towns of Charlotte, Cherry Creek, Arkwright, and Stockton, in Chautauqua County, New York (Figure 1). The proposed Project is subject to the rules for siting a major electric generating facility under Article 10 of the New York State Public Service Law (“PSL”). In accordance with the Article 10 regulations, a Public Involvement Program “PIP” plan for this Project was released in January 2015 and is available on the Project’s website at [http://everpower.com/wp-content/uploads/2015/01/2015-01-05\\_PIP\\_FINAL.pdf](http://everpower.com/wp-content/uploads/2015/01/2015-01-05_PIP_FINAL.pdf). Please refer to the PIP for additional details regarding the proposed Project.

A number of studies are now underway to assist in evaluating the potential environmental impacts of the proposed Project in support of the Article 10 application. One such study is the Visual Impact Assessment (VIA), which will be included as Exhibit 24 of the Article 10 application. The VIA must include “identification of visually sensitive resources, viewshed mapping, confirmatory visual assessment fieldwork, visual simulations (photographic overlays), cumulative visual impact analysis, and proposed visual impact mitigation” pursuant to the requirements identified in Exhibit 24 of Article 10. The purpose of this letter is to help address the requirement that “the applicant shall confer with municipal planning representatives, DPS, DEC, OPRHP, and where appropriate, APA in its selection of important or representative viewpoints” (Article 10, Exhibit 24, Part 1001.24[b][4])<sup>1</sup>. The information presented in this letter and its enclosures is intended to provide stakeholders with sufficient context and information to assist with the identification of visually sensitive resources and the selection of important and/or representative viewpoints.

#### Visual Study Area

Per the requirements set forth in 16 NYCRR § 1000.2(ar), the visual study area to be used for analysis of major electric generating facilities is defined as “an area generally related to the nature of the technology and the setting of the

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<sup>1</sup> Note: “DPS” is the New York State Department of Public Service, “DEC” is the New York State Department of Environmental Conservation, “OPRHP” is the New York State Office of Parks, Recreation, and Historic Preservation, and “APA” is the Adirondack Park Agency.

proposed site. For large facilities or wind power facilities with components spread across a rural landscape, the study area shall generally include the area within a radius of at least five miles from all generating facility components, interconnections and related facilities and alternative location sites. For facilities in areas of significant resource concerns, the size of a study area shall be configured to address specific features or resource issues.”

For the purposes of this consultation, visually sensitive resources have been identified within 10 miles of the proposed Project boundary. In general terms, a 5-mile-radius study area for a VIA is typically considered adequate for wind projects because the area within 5 miles of a Project typically represents the area within which significant visual effects may occur. The purpose of including areas between 5 and 10 miles from the Project was to identify any regionally significant areas or resources of concern and to assist in determining whether a 5-mile radius study area is appropriate for this Project. The 5-mile and 10-mile visual study area boundaries for the Project are depicted on Figure 2.

Preliminary viewshed analyses have been prepared for the Project (see Figure 3)<sup>2</sup>. Preliminary viewshed results indicate that one or more wind turbines may be visible from approximately 31.5% of the 5-mile visual study area and from approximately 12% of the area that falls between the 5 and 10 mile study area boundaries (see Figure 3: Sheet 1). However, screening provided by buildings and street/yard trees, as well as characteristics of the proposed turbines that influence visibility (color, narrow profile, distance from viewer, etc.), are not taken consideration in the analysis and, consequently, being within the preliminary viewshed does not necessarily equate to actual Project visibility.

#### Visually Sensitive Resources

Aesthetic resources of statewide significance are formally defined by the Department of Environmental Conservation (DEC) in the Program Policy entitled *Assessing and Mitigating Visual Impacts*<sup>3</sup> (the “DEC Visual Policy”). EDR conducted a desktop inventory of visually sensitive resources of potential statewide significance within 10 miles of the proposed Project and a more detailed inventory (including potential locally significant resources) within the 5-mile visual study area. Aesthetic resources of statewide significance located within 10 miles of the proposed Project include 11 sites and four districts listed on the National Register of Historic Places; the Seaway Trail National Scenic Byway, three state parks (Lake Erie State Park, Long Point State Park and Midway State Park), the Concord Grape Belt New York State Heritage Area, the Canadaway Creek Nature Sanctuary, six wildlife management areas, and Conewango Creek (included in the National Rivers Inventory for “Outstandingly Remarkable Value” due to the large adjacent ecologically/botanically significant swamp). While water bodies are not typically considered resources of statewide significance, Chautauqua Lake and Lake Erie are included in this inventory due to their regional significance with respect to recreation and tourism. Figure 3, Sheet 1 illustrates the location of each of these resources and Table 1 provides information about each site, including name, distance to the nearest proposed turbine, and the potential visibility of the Project based on preliminary viewshed analysis.

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<sup>2</sup> The wind turbine model that will be utilized for the Project has not been determined at this time. The preliminary viewshed analysis shown in Figure 3 is based on the Nordex N131 wind turbine, which is the tallest wind turbine model currently under consideration for the Project and therefore represents the “worst case” assessment of potential visibility. The total turbine height for a Nordex N131 (i.e., height at the highest blade tip position) is approximately 540 feet.

<sup>3</sup> The DEC Program Policy *Assessing and Mitigating Visual Impacts* was issued on July 31, 2000 and can be reviewed here: [http://www.dec.ny.gov/docs/permits\\_ej\\_operations\\_pdf/visual2000.pdf](http://www.dec.ny.gov/docs/permits_ej_operations_pdf/visual2000.pdf).

Resources located within the 5-mile visual study area that may be regionally or locally significant/sensitive, include the Villages of South Dayton, Cassadaga, Cherry Creek, and Sinclairville; 11 hamlets; four local parks; three trails; four state forests and one state fishing access point; three public schools; four state highways and one US highway; and several recreational water resources. The 5-mile visual study area also includes 44 sites that have previously been determined to be eligible for listing on the NRHP. Each of these resources are shown on Figure 3, Sheet 2 and included in Table 1. Cassadaga Wind, LLC believes that the list of aesthetic resources included herein represents a comprehensive inventory of the significant visually sensitive resources in the Project vicinity.

#### Selection of Viewpoints for Preparation of Visual Simulations

It is anticipated that preparation of the VIA will also include a field review (site visit) to obtain photographs for subsequent use in the development of photographic simulations. Photographs will be taken from representative viewpoints within the study area, including visually sensitive resources identified by local stakeholders in response to this letter. Photographs taken from each viewpoint during field review will be used to illustrate typical potential visibility of the proposed Project from various distances and visual settings within the study area.

A subset of the viewpoints photographed during the field review effort will be selected for the development of visual simulations. In addition to requiring consultation with municipal planning representatives, DPS, DEC and OPRHP in the viewpoint selection process; Article 10, Exhibit 24, Part 1001.24(b)(4) states:

“Viewpoint selection is based on the following criteria:

- i. representative or typical views from unobstructed or direct line of-sight views;
- ii. significance of viewpoints, designated scenic resources, areas or features (which features typically include, but are not limited to: landmark landscapes; wild, scenic or recreational rivers administered respectively by either the DEC or the APA pursuant to ECL Article 15 or Department of Interior pursuant to 16 USC Section 1271; forest preserve lands, scenic vistas specifically identified in the Adirondack Park State Land Master Plan, conservation easement lands, scenic byways designated by the federal or state governments; Scenic districts and scenic roads, designated by the Commissioner of Environmental Conservation pursuant to ECL Article 49 scenic districts; Scenic Areas of Statewide Significance; state parks or historic sites; sites listed on National or State Registers of Historic Places; areas covered by scenic easements, public parks or recreation areas; locally designated historic or scenic districts and scenic overlooks; and high-use public areas;
- iii. level of viewer exposure, i.e., frequency of viewers or relative numbers, including residential areas, or high volume roadways;
- iv. proposed land uses;
- v. input from local public sources; and
- vi. building/structure data collected for each potentially eligible property prepared in a format acceptable to OPRHP and DPS and submitted to OPRHP and DPS for review prior to completing the viewpoint selection.”

It is not anticipated that photo simulations will be prepared from every visually sensitive resource or area of concern identified by local stakeholders or from every area with potential Project visibility within the study area. Instead, it is

anticipated that a subset of representative viewpoints will be selected that will provide a set of simulations that illustrate the appearance of the Project from a range of distances and representative visual settings within the study area.

#### Feedback Request

In accordance with Article 10, Exhibit 24, Part 1001.24(b)(4); Cassadaga Wind, LLC is formally requesting the feedback of municipal planning representatives in the identification of important or representative viewpoints in the Project vicinity. Please review the inventory of visually sensitive resources included as Table 1 and depicted on Figure 3. Cassadaga Wind, LLC believes that the list of aesthetic resources included herein represents a comprehensive inventory of the significant visually sensitive resources in the Project vicinity. Please consider whether there are any additional significant visually sensitive sites that are not included in the inventory, and if so please provide Cassadaga Wind, LLC with:

- 1) The name and location of additional visually sensitive resources (not identified in Table 1) that you feel should be included in the inventory of aesthetic resources and subsequent evaluation of potential visual impacts. Additional resources should include:
  - a. Locally significant visually sensitive resources or areas within the 5 mile visual study area (i.e. areas where visually sensitive views are experienced primarily by local residents), and
  - b. Regionally significant visually sensitive resources or areas within the 10 mile visual study area (i.e. visually sensitive tourist attractions or other visually sensitive areas that draw visitors from other parts of the region or state).
- 2) Your recommendations for viewpoints that you feel would be strong candidates for the development of visual simulations, with an explanation of why you feel that view or location is important to consider.

Please provide this information by April 30, 2015 to Cassadaga Wind, LLC:

- Via email through a link on the Project website at: <http://everpower.com/contact/>. Please type “Cassadaga Wind - Visual Resources” in the subject line.
- Via written letter to:  
Attn: Bill Spencer  
Cassadaga Wind Project  
c/o EverPower Wind Holdings, Inc.  
1251 Waterfront Place, 3rd Floor  
Pittsburgh, PA 15222

We sincerely appreciate your assistance helping us to identify locally and regionally significant sensitive sites and areas.

Thank you,

A handwritten signature in dark ink that reads "Patrick J. Heaton". The signature is written in a cursive style with a long horizontal flourish at the end.

Patrick Heaton, Director of Cultural Resources  
Environmental Design & Research, Landscape Architecture, Engineering, & Environmental Services, D.P.C.  
On behalf of Cassadaga Wind, LLC

List of Enclosures:

- Table 1. Visually Sensitive Resources
- Figure 1. Project Area
- Figure 2. Study Area
- Figure 3. Visually Sensitive Resources and Viewshed Analysis



Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility		
	Town	County			+ Visible	- Not Visible	+/- Partially Visible
<b>1. Properties Listed in the National or State Register of Historic Places</b>					Preliminary Topographic/Vegetation Viewshed		
Leon United Methodist Church	Leon	Cattaraugus	5.4	●	-		
Leon Grange # 795	Leon	Cattaraugus	5.4	●	-		
Fredonia Commons Historic District	Pomfret	Chautauqua	7.6	●	+/-		
US Post Office--Fredonia	Pomfret	Chautauqua	7.7	●	+		
Midway State Park	Ellery	Chautauqua	9.5	●	-		
Point Chautauqua Historic District	Chautauqua	Chautauqua	10.0	●	-		
Brocton Arch	Portland	Chautauqua	10.4	●	-		
Bemis Point Site	Ellery	Chautauqua	10.7	●	-		
Randolph Historic District	Randolph	Cattaraugus	10.1	●	+/-		
US Post Office--Dunkirk	Dunkirk	Chautauqua	10.2	●	+		
School No. 7	Dunkirk	Chautauqua	10.5	●	+		
Chautauqua Institution Historic District	Chautauqua	Chautauqua	10.8	●	+/-		
Miller, Lewis, Cottage, Chautauqua Institution	Chautauqua	Chautauqua	11.1	●	-		
Pennsylvania Railroad Station	Chautauqua	Chautauqua	11.8	●	-		
Gladden Windmill	Napoli	Cattaraugus	11.9	●	-		
<i>Properties Eligible for Listing in the National or State Register of Historic Places</i>							
5. Residential 1847, 8129 Griswold Rd, Arkwright	Arkwright	Chautauqua	0.8	●	-		
10. Rose Farm c. 1870, 1936 Ruttenbur Rd., Arkwright	Arkwright	Chautauqua	1.2	●	-		
2. Bungalow, 6687 Main St	Cherry Creek	Chautauqua	1.7	●	+/-		
3. Bungalow, 6689 Main St	Cherry Creek	Chautauqua	1.7	●	+/-		
1. Former Electric Light Station, 6676 Main St	Cherry Creek	Chautauqua	1.7	●	+		
4. Farm Complex c. 1920, 8025 NY 83, Villenova	Cherry Creek	Chautauqua	2.2	●	+		
38. Residential c. 1840, 1141 NY 83, Villenova	Villenova	Chautauqua	2.3	●	+		
39. Villenova Grange Hall, 1150 NY 83, Villenova	Villenova	Chautauqua	2.3	●	+/-		

Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility		
	Town	County			+Visible	- Not Visible	+/- Partially Visible
					Preliminary Topographic/Vegetation Viewshed		
11. Farm Complex c. 1860, 8562 NY 83, Villenova	Villenova	Chautauqua	3.0	●	+		
36. Hamlet Cemetery, 558 NY 83, Villenova	Villenova	Chautauqua	3.5	●	+		
40. Farm Complex c. 1870 Barns & Pre-Civil War House, 2083 NY 83 Arkwright	Arkwright	Chautauqua	3.5	●	+/-		
8. 812 West Main St., Ellington	Ellington	Chautauqua	3.7	●	+/-		
7. Farman Free Library, 760 Thronton Rd., Ellington	Ellington	Chautauqua	3.7	●	-		
41. Residential circa 1915, 2667 NY 83, Arkwright	Arkwright	Chautauqua	3.8	●	-		
6. 4980 Rte. 62, Ellington	Ellington	Chautauqua	3.9	●	+		
12. 6658 West Rd., Leon	Leon	Cattaraugus	4.1	●	+		
13. Sears Farmhouse & Complex c. 1920, 8143 Oaks Rd., South Dayton	Dayton	Cattaraugus	4.1	●	+		
35. Farm Complex c. 1830, 307 Philips Rd., Villenova	Villenova	Chautauqua	4.3	●	+		
14. Residential c. 1860, 62 Main St., South Dayton	Dayton	Cattaraugus	4.5	●	+		
15. Residential c. 1860, 227 Oak St, South Dayton	Dayton	Cattaraugus	4.5	●	+/-		
16. Commercial c. 1920, 413 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
17. Residential c. 1890, 319 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
18. Residential c. 1910, 309 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
19. Residential c. 1900, 312 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
20. Residential c. 1890, 203 Maple, South Dayton	Dayton	Cattaraugus	4.6	●	+		
21. Residential c. 1910, 212/214 Maple St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
23. Corkwell's Garage, 107 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
24. Commercial c. 1930, 205 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
25. The Valley House/ S. Dayton Hotel 1877, 203 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
26. Commercial c. 1900, 207 Pine St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
27. Commerical 1877, 1 Park St., South Dayton	Dayton	Cattaraugus	4.6	●	+		
9. 7255 CR 380, Stockton	Stockton	Chautauqua	4.6	●	-		

Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility		
	Town	County			+Visible	- Not Visible	+/- Partially Visible
					Preliminary Topographic/Vegetation Viewshed		
22. Residential c. 1930, 27 Cherry St., Dayton	Dayton	Cattaraugus	4.7	●	+		
28. Wilson Hale & Co./ Post Office 1877, 5 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
29. County Bank c. 1920, 7 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
30. Commercial c. 1900, 9 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
31. Commercial c. 1890, 11 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
32. Commercial c. 1910, 13 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
33. Commercial c. 1900, 15 Park St., South Dayton	Dayton	Cattaraugus	4.7	●	+		
42. Residential c. 1890, 9460 Route 60, Pomfret	Pomfret	Chautauqua	5.3	●	-		
43. Residential c. 1890, 9453 Route 60, Pomfret	Pomfret	Chautauqua	5.3	●	-		
44. Residential 1875, 3728 Route 83, Pomfret	Pomfret	Chautauqua	5.3	●	-		
37. Forestville Wesleyan Church Complex c. 1858, Includes Cemetery & School, 9495 Prospect Rd., Villenova	Villenova	Chautauqua	5.3	●	+		
34. Small Church c. 1850s, 8551 Rt. 62, Dayton	Dayton	Cattaraugus	7.1	●	+		
<b>2. State Parks</b>							
Midway State Park	Ellery	Chautauqua	9.5	●	-		
Long Point State Park	Ellery	Chautauqua	9.6	●	-		
Lake Erie State Park	Portland	Chautauqua	10.4	●	+/-		
<b>3. Urban Cultural Parks/Heritage Areas</b>							
Concord Grape Belt NYS Heritage Area	Dunkirk, Stockton, Sheridan, Chautauqua, Hanover, Portland, Pomfret, Perrysburg, Arkwright, Villenova	Chautauqua, Cattaraugus	2.5	●	+/-		
<b>4. State Forest Preserves</b>							
None in Study Area							
<b>5. National Wildlife Refuges, State Game Refuges and State Wildlife Management Areas</b>							

Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility
	Town	County			+Visible - Not Visible +/- Partially Visible
Canadaway Creek WMA	Arkwright	Chautauqua	0.6	●	+/-
Kabob WMA	Stockton	Chautauqua	2.6	●	+/-
Conewango Swamp WMA	Conewango, Randolph	Cattaraugus	6.8	●	+/-
Hartson Swamp WMA	Poland	Chautauqua	9.0	●	-
Clay Pond WMA	Poland	Chautauqua	9.5	●	-
Chautauqua Lake WMA	North Harmony, Ellery	Chautauqua	10.7	●	-
<b>6. National Natural Landmarks</b>					
None in Study Area					
<b>7. National Parks, Recreation Areas, Seashores and/or Forests</b>					
None in Study Area					
<b>8. National or State Designated Wild, Scenic, or Recreational Rivers</b>					
Conewango Creek (Potentially Eligible)	Poland, Conewango, Randolph	Chautauqua, Cattaraugus	5.5	●	+/-
<b>9. Sites, Areas, Lakes, Reservoirs or Highways Designated or Eligible as Scenic</b>					
Seaway Trail National Scenic Byway	Dunkirk, Portland, Pomfret	Chautauqua	10.1	●	+/-
<b>10. Scenic Areas of Statewide Significance</b>					
None in Study Area					
<b>11. State and Federally Designated Trails</b>					
None in Study Area					
<b>12. Adirondack Park Scenic Vistas</b>					
None in Study Area					
<b>13. State Nature and Historic Preserve Areas</b>					
Canadaway Creek Nature Sanctuary	Dunkirk	Chautauqua	10.3	●	-
<b>14. Palisades Park</b>					
None in Study Area					
<b>15. Bond Act Properties for Exceptional Beauty or Open Space</b>					

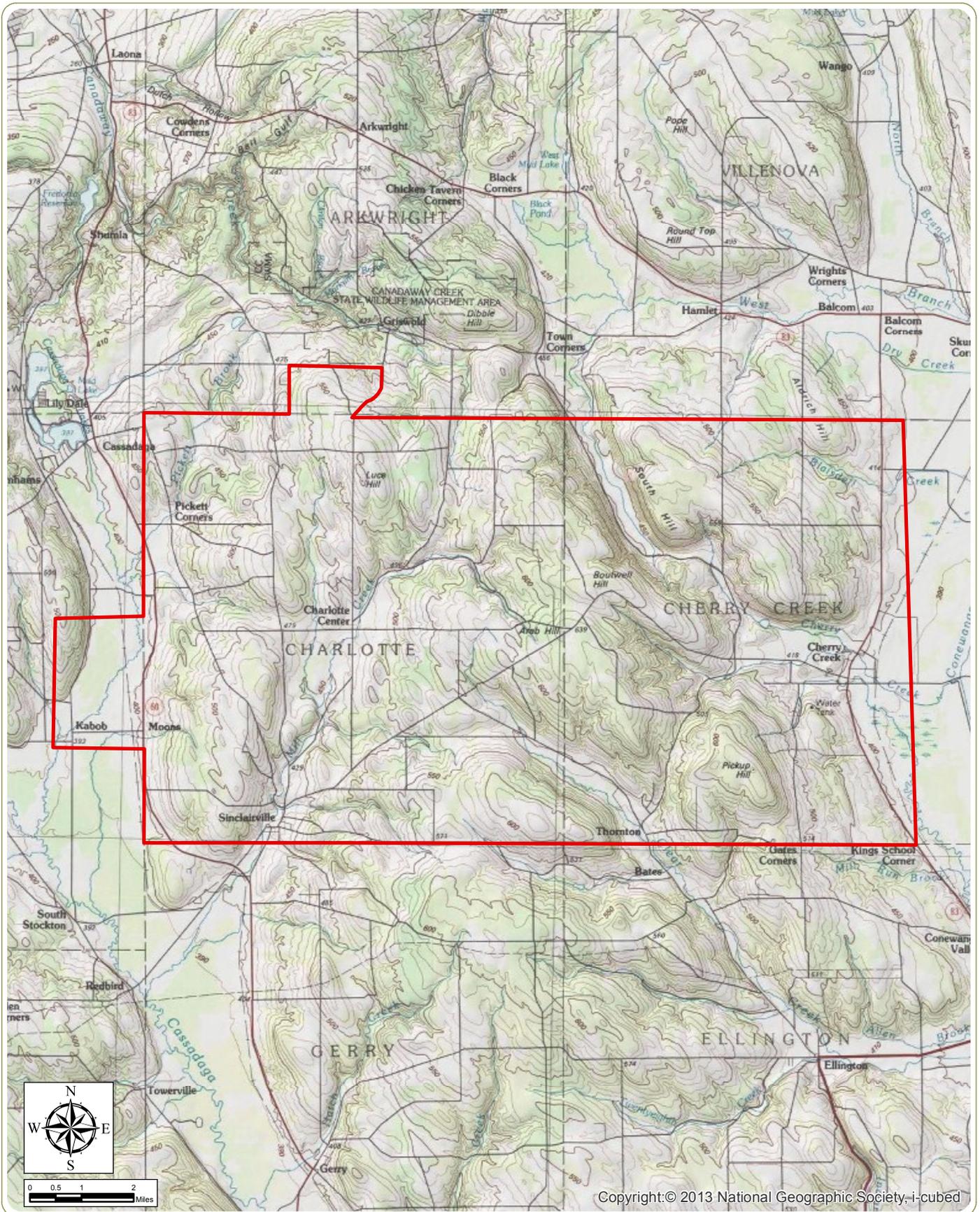
Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility		
	Town	County			+Visible	- Not Visible	+/- Partially Visible
None in Study Area							
<b>Other Resources of Statewide or Regional Significance</b>							
Chautauqua Lake	Jamestown, Ellicott, North Harmony, Ellery, Chautauqua	Chautauqua	9.4	●			-
Lake Erie	Dunkirk, Portland, Pomfret	Chautauqua	10.5	●			+/-
<b>Locally Important Resources</b>							
<b>Areas of Intensive Land Use (City, Village, Hamlet)</b>							
Village of Sinclairville	Charlotte, Gerry	Chautauqua	0.3	●			+/-
Village of Cherry Creek	Cherry Creek	Chautauqua	0.9	●			+/-
Hamlet of Charlotte Center	Charlotte	Chautauqua	1.0	●			+/-
Hamlet of Hamlet	Villanova	Chautauqua	2.1	●			+/-
Village of Cassadaga	Stockton	Chautauqua	3.0	●			+/-
Hamlet of Ellington	Ellington	Chautauqua	3.6	●			+/-
Hamlet of Conewango Valley	Conewango, Ellington	Chautauqua, Cattaraugus	3.6	●			+/-
Hamlet of Burnhams	Stockton	Chautauqua	3.8	●			+/-
Hamlet of Lily Dale	Pomfret	Chautauqua	3.9	●			+/-
Village of South Dayton	Dayton	Cattaraugus	4.0	●			+/-
Hamlet of Clear Creek	Conewango, Ellington	Chautauqua, Cattaraugus	4.5	●			+/-
Hamlet of Stockton	Stockton	Chautauqua	4.5	●			-
Hamlet of Leon	Leon	Cattaraugus	5.2	●			-
Hamlet of Conewango	Conewango	Cattaraugus	5.0	●			+/-
Hamlet of Gerry	Gerry	Chautauqua	5.4	●			+/-
<b>Major Transportation Corridors</b>							
SR 60	Stockton, Charlotte, Gerry, Pomfret	Chautauqua	1.1	●			+/-
SR 83	Cherry Creek, Ellington, Pomfret, Arkwright, Villanova	Chautauqua	1.4	●			+/-

Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility	
	Town	County			+Visible	- Not Visible +/- Partially Visible
SR 322	Dayton, Villenova	Chautauqua, Cattaraugus	3.6	●		+/-
US 62	Dayton, Leon, Conewango, Ellington, North Collins, Collins, Persia	Erie, Chautauqua, Cattaraugus	3.8	●		+/-
SR 241	Conewango	Cattaraugus	5.2	●		+/-
<b>Recreation Resources</b>						
<i>Local Parks and Playgrounds</i>						
Cassadaga Beach & Park	Stockton	Chautauqua	3.4	●		-
Ellington Town Square Park	Ellington	Chautauqua	3.7	●		+/-
Larson Memorial Park	Gerry	Chautauqua	5.5	●		+/-
Ellery Town Park	Ellery	Chautauqua	11.1	●		-
<i>Lakes and Rivers</i>						
Canadaway Creek	Charlotte, Dunkirk, Pomfret, Arkwright	Chautauqua	<0.1	●		+/-
Conewango Creek	Dayton, Leon, Cherry Creek, Poland, Conewango, Randolph, Ellington, New Albion	Chautauqua, Cattaraugus	0.4	●		+/-
Clear Creek	Cherry Creek, Conewango, Charlotte, Ellington	Chautauqua, Cattaraugus	0.5	●		+/-
Cassadaga Creek	Stockton, Ellery, Charlotte, Gerry	Chautauqua	1.4	●		+/-
Conewango Dredge	Leon, Cherry Creek, Conewango, Ellington	Chautauqua, Cattaraugus	2.9	●		+/-
Middle Lake	Stockton, Pomfret	Chautauqua	3.5	●		+/-
Upper Lake	Pomfret	Chautauqua	3.9	●		+/-
Bear Lake	Stockton, Pomfret	Chautauqua	6.2	●		-
<i>Trails</i>						
Earl Cardot Eastside Overland Trail	Cherry Creek, Charlotte, Gerry, Ellington, Arkwright	Chautauqua	<0.1	●		+/-

Visually Sensitive Resource	Location		Distance <sup>1</sup> Miles from Nearest Turbine	Distance Zone ● Foreground ● Midground ● Background	Project Visibility		
	Town	County			+Visible	- Not Visible	+/- Partially Visible
Harris Hill State Forest Mountain Bike Trail	Gerry	Chautauqua	3.7	●		-	
The Amish Trail	Dayton, Leon, Conewango, Randolph, Collins, Persia	Erie, Cattaraugus	4.6	●		+/-	
<i>NYSDEC Lands</i>							
Boutwell Hill State Forest	Cherry Creek, Charlotte, Arkwright	Chautauqua	<0.1	●		+/-	
Clear Creek Fishing Access	Cherry Creek, Ellington	Chautauqua	0.6	●		+/-	
Hatch Creek State Forest	Gerry	Chautauqua	0.6	●		+/-	
Harris Hill State Forest	Gerry, Ellington	Chautauqua	0.8	●		+/-	
Stockton State Forest	Stockton	Chautauqua	4.4	●		+/-	
<b>Schools and Colleges</b>							
Sinclairville Elementary School	Gerry	Chautauqua	1.6	●		+/-	
Cassadaga Valley Middle High School	Gerry	Chautauqua	1.8	●		+/-	
Pine Valley Central Schools	Cherry Creek	Chautauqua	1.8	●		+/-	

<sup>1</sup> For large areas and linear sites, approximate distance to the nearest turbine was measured from the respective area's closest point.





## Cassadaga Wind Project

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton - Chautauqua County, New York

### Figure 1: Project Area

April 2015

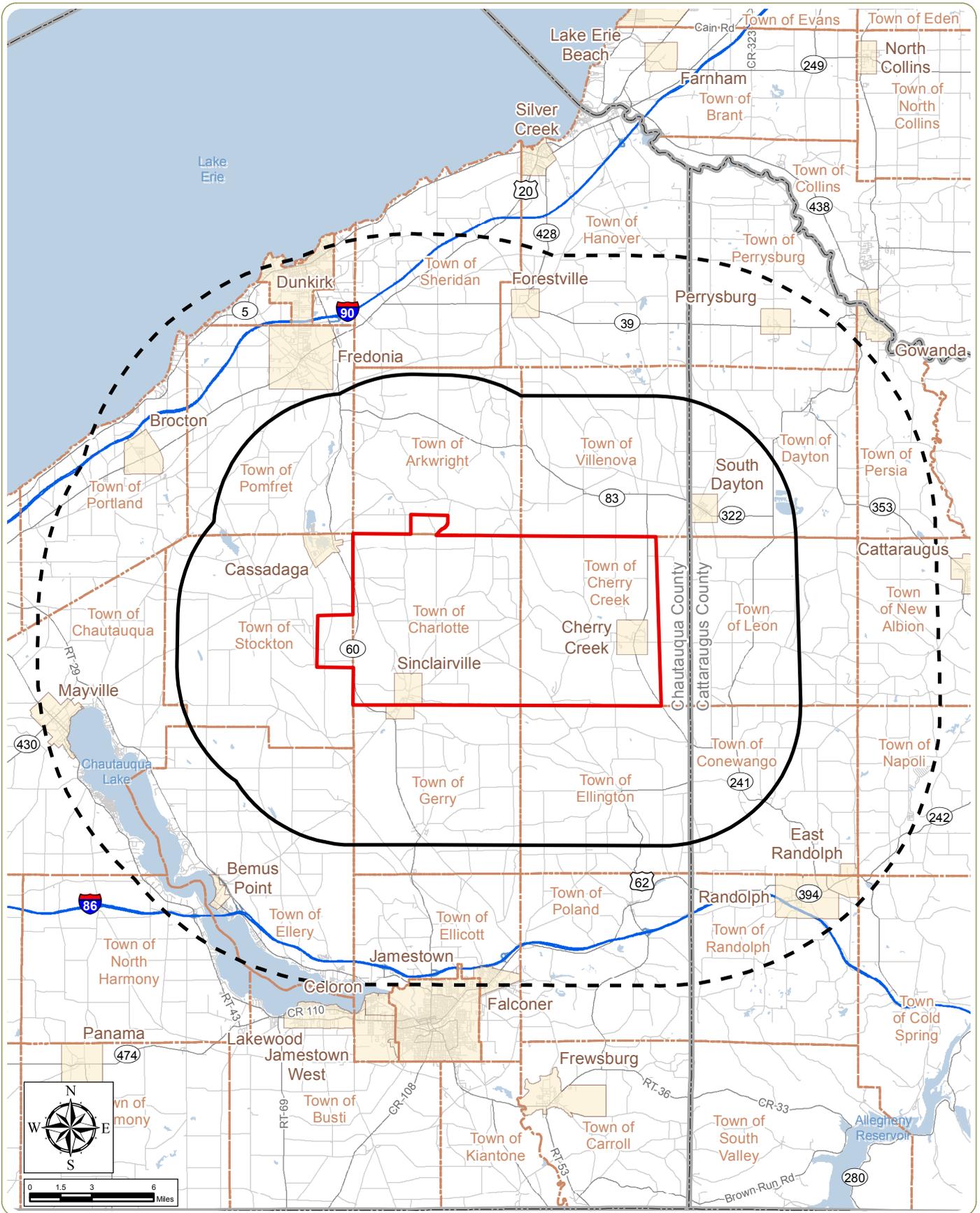
 Project Area



www.edrjpc.com

- Notes:** 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service.  
 2. This is a color graphic. Reproduction in grayscale may misrepresent the data.





## Cassadaga Wind Project

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton - Chautauqua County, New York

**Figure 2: Visual Study Area**

April 2015

Notes: 1. Basemap: ESRI StreetMap North America, 2008.

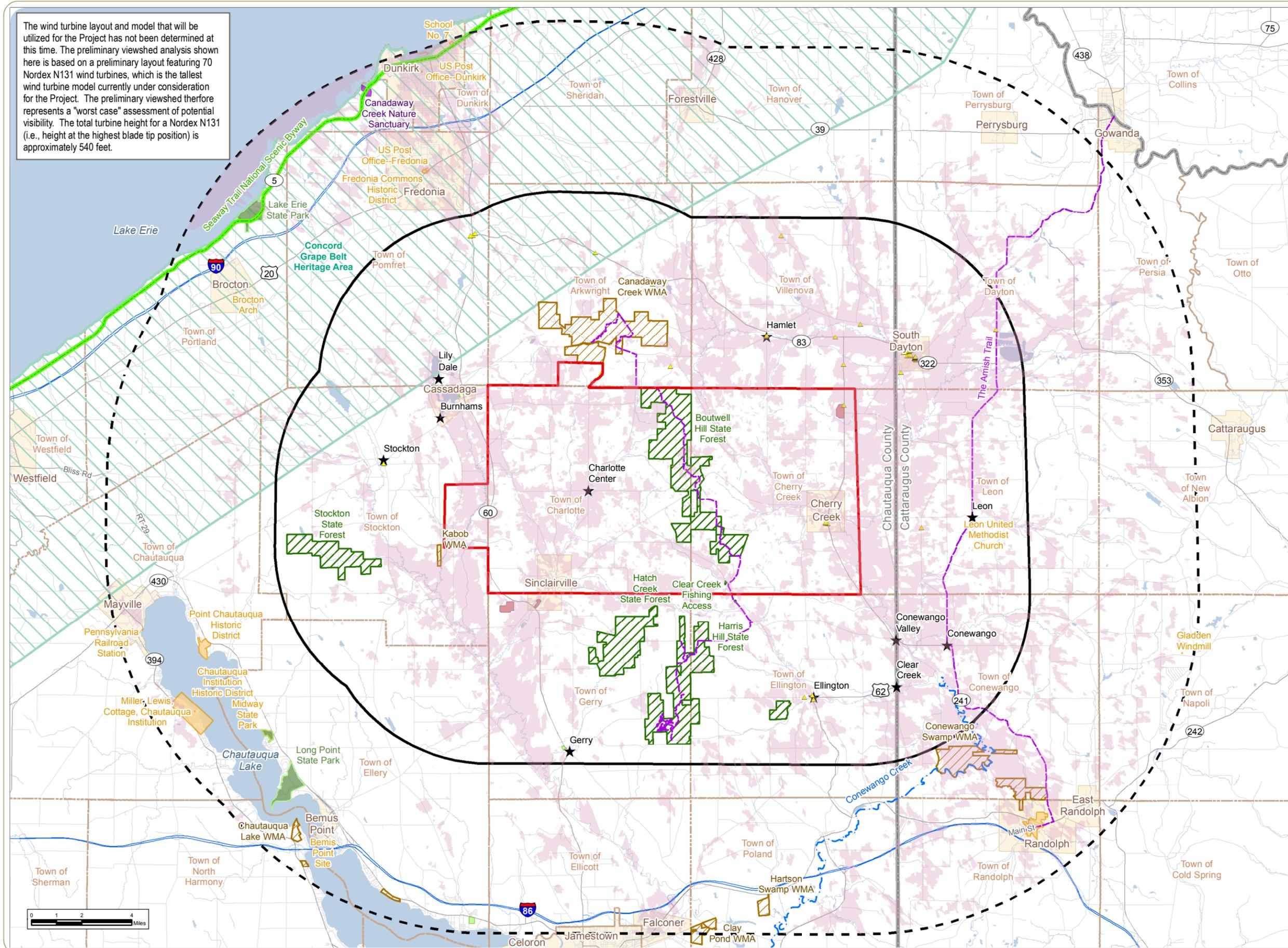
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Project Area
- 5-Mile Study Area
- 10-Mile Study Area
- City/Village Boundary
- Town Boundary
- County Boundary





The wind turbine layout and model that will be utilized for the Project has not been determined at this time. The preliminary viewshed analysis shown here is based on a preliminary layout featuring 70 Nordex N131 wind turbines, which is the tallest wind turbine model currently under consideration for the Project. The preliminary viewshed therefore represents a "worst case" assessment of potential visibility. The total turbine height for a Nordex N131 (i.e., height at the highest blade tip position) is approximately 540 feet.



# Cassadaga Wind Project

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton - Chautauqua County, New York

**Figure 3: Visually Sensitive Resources and Viewshed Analysis**  
 Sheet 1 of 2: 10-mile Study Area  
 April 2015

- ▲ NRHP-Eligible Site
- ★ Hamlet
- Nationwide Rivers Inventory
- National Scenic Byway
- Trail
- NRHP-Listed Site
- State Park
- ▨ State Forest/Fishing Access
- ▨ State Heritage Area
- State Nature Sanctuary
- ▨ Wildlife Management Area
- Local Park
- School
- City/Village
- Town Boundary
- County Boundary
- ▭ Project Boundary
- ▭ 5-Mile Study Area
- ▭ 10-Mile Study Area
- Potential Project Visibility

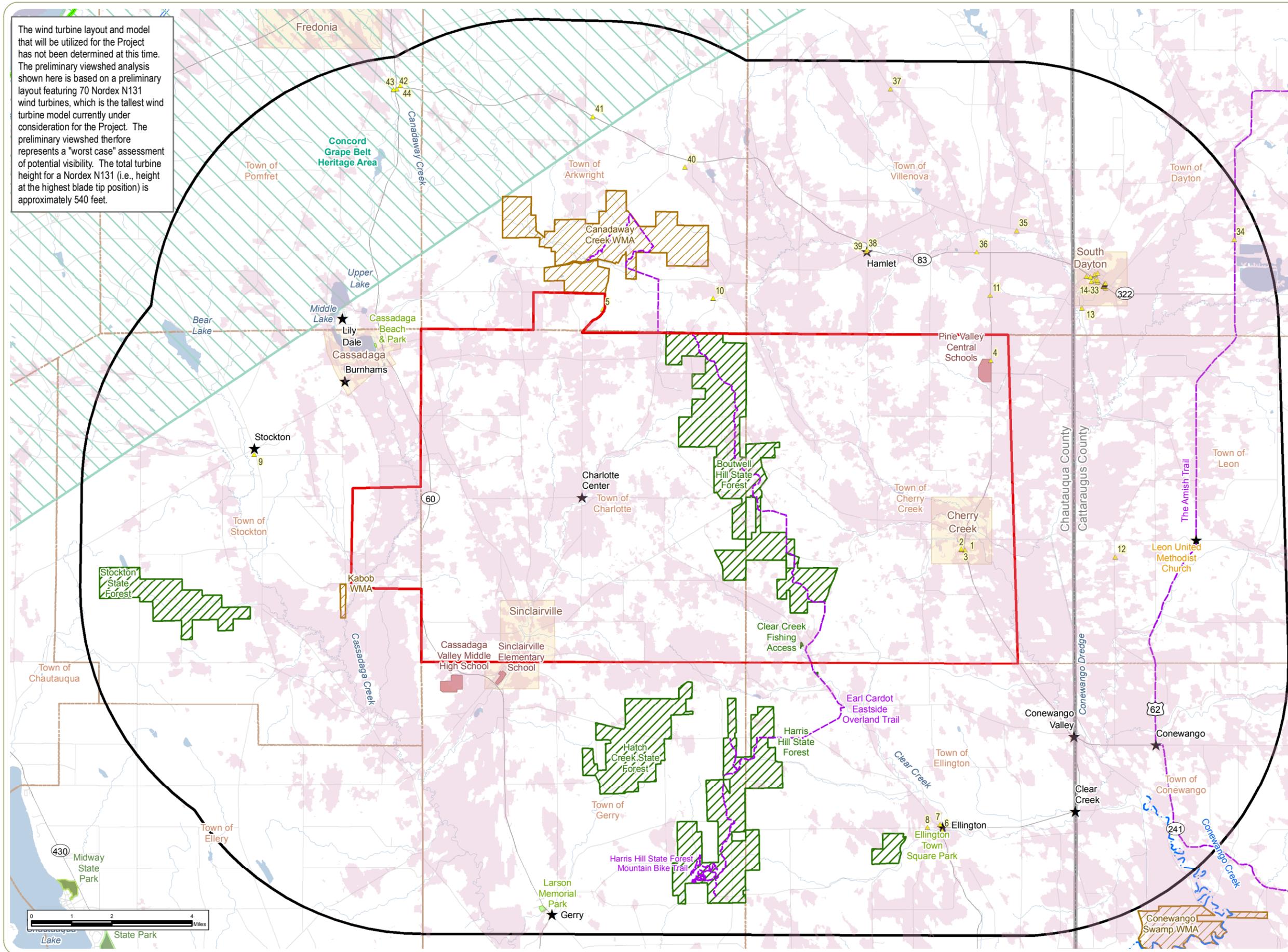
**Notes:**  
 1. Project visibility based on viewshed results accounting for screening by topography and mapped forest vegetation.  
 2. Basemap: ESRI StreetMap North America, 2008.  
 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

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The wind turbine layout and model that will be utilized for the Project has not been determined at this time. The preliminary viewshed analysis shown here is based on a preliminary layout featuring 70 Nordex N131 wind turbines, which is the tallest wind turbine model currently under consideration for the Project. The preliminary viewshed therefore represents a "worst case" assessment of potential visibility. The total turbine height for a Nordex N131 (i.e., height at the highest blade tip position) is approximately 540 feet.



## Cassadaga Wind Project

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton - Chautauqua County, New York

### Figure 3: Visually Sensitive Resources and Viewshed Analysis

Sheet 2 of 2: 5-mile Study Area

April 2015

- ▲ NRHP-Eligible Site
- ★ Hamlet
- Nationwide Rivers Inventory
- National Scenic Byway
- Trail
- NRHP-Listed Site
- State Park
- State Forest/Fishing Access
- State Heritage Area
- Wildlife Management Area
- Local Park
- School
- City/Village
- Town Boundary
- County Boundary
- Project Boundary
- 5-Mile Study Area
- Potential Project Visibility

- Notes:**
1. Project visibility based on viewshed results accounting for screening by topography and mapped forest vegetation.
  2. Basemap: ESRI StreetMap North America, 2008.
  3. This is a color graphic. Reproduction in grayscale may misrepresent the data.







Environmental Design & Research,  
Landscape Architecture, Engineering & Environmental Services, D.P.C.  
217 Montgomery Street, Suite 1000, Syracuse, New York 13202  
P. 315.471.0688 • F. 315.471.1061 • www.edrdpc.com

# memorandum

**To:** Seth Wilmore  
Cassadaga Wind, LLC  
**EDR Project No:** 14048

**From:** Pat Heaton, Ben Brazell

**Date:** April 1, 2015

**Reference:** Cassadaga Wind Project  
Visual Outreach Letter – Distribution List

## Comments:

William Young, Town Supervisor  
**Town of Cherry Creek**  
PO Box 98  
6845 Main Street  
Cherry Creek, NY 14723

Sharon Sweeting, Town Historian  
**Town of Cherry Creek**  
PO Box 98  
6845 Main Street  
Cherry Creek, NY 14723

Kenneth Bochmann, Town Supervisor  
**Town of Charlotte**  
PO Box 994  
8 Lester Street  
Sinclairville, NY 14782

Joanne Marsh, Town Historian  
**Town of Charlotte**  
6183 Route 60  
Sinclairville, NY 14782

Frederic Norton, Town Supervisor  
**Town of Arkwright**  
8743 Center Road  
Cassadaga, NY 14718

Ruth Nichols, Town Historian  
**Town of Arkwright**  
2383 Route 83  
Fredonia, NY 14063

David Wilson, Town Supervisor  
**Town of Stockton**  
7344 Route 380  
Stockton, NY 14784

Helen Pierson, Town Historian  
**Town of Stockton**  
4513 Railroad Avenue  
PO Box 69  
Stockton, NY 14784

Bruce Fisher, Mayor  
**Village of Cherry Creek**  
PO Box 26  
6763 Main Street  
Cherry Creek, NY 14723

Kenneth France, Mayor  
**Village of Sinclairville**  
PO Box 469  
8 Lester Street  
Sinclairville, NY 14782

Betty Jean Ridout, Village Historian  
**Village of Sinclairville**  
2 Kent Street  
Sinclairville, NY 14782

Leeann Lazarony, Mayor  
**Village of Cassadaga**  
PO Box 286  
22 Mill Street  
Cassadaga, NY 14718

John Sipos, Jr., Village Historian  
**Village of Cassadaga**  
PO Box 392  
Cassadaga, NY 14718

Scott Kerr, Mayor  
**Village of South Dayton**  
PO Box 320  
311 Pine Street  
South Dayton, NY 14138

Arden Johnson, Town Supervisor  
**Town of Ellery**  
PO Box 429  
25 Sunnyside Avenue  
Bemus Point, NY 14712

Cherrie Clark, Town Historian  
**Town of Ellery**  
4818 Ellery-Centralia Road  
Bemus Point, NY 14712

Laura Cronk, Town Supervisor  
**Town of Ellington**  
PO Box 344  
813 West Main Street  
Ellington, NY 14732

Elizabeth Dickerson, Town Historian  
**Town of Ellington**  
Ellington Town Hall  
PO Box 344  
Ellington, NY 14732

John Crossley, Town Supervisor  
**Town of Gerry**  
PO Box 15  
4519 Route 60  
Gerry, NY 14740

Kenneth Asel II, Planning Board Chairman  
**Town of Gerry**  
PO Box 15  
4519 Route 60  
Gerry, NY 14740

Peggy Heath, Town Historian  
**Town of Gerry**  
4030 Route 60  
Gerry, NY 14740

Donald Steger, Town Supervisor  
**Town of Pomfret**  
9 Day Street  
Fredonia, NY 14063

James Joy, Planning Board Chairman  
**Town of Pomfret**  
9 Day Street  
Fredonia, NY 14063

Todd Langworthy, Town Historian  
**Town of Pomfret**  
18 Johnson Street  
Fredonia, NY 14063

Yvonne Park, Town Supervisor  
**Town of Villenova**  
1094 Butcher Road  
South Dayton, NY 14138

Barbara Wise, Town Historian  
**Town of Villenova**  
1129 Route 83  
South Dayton, NY 14138

Wayne McGuire, Town Supervisor  
**Town of Conewango**  
4662 Route 241  
Randolph, NY 14772

Mark Smith, Town Supervisor  
**Town of Dayton**  
9932 Nashville Road  
South Dayton, NY 14138

Ruth Bennett, Town Historian  
**Town of Dayton**  
9922 Cottage Road  
South Dayton, NY 14138

Erika Zollinger, Town Supervisor  
**Town of Leon**  
12550 Smith Road  
South Dayton, NY 14138

Patricia Bromley, Town Historian  
**Town of Leon**  
12195 Leon-New Albion Road  
Conewango Valley, NY 14726

Kevin Sanvidge, Director  
**Chautauqua County Department of Planning and  
Economic Development**  
200 Harrison Street  
Jamestown, NY 14701

Michelle Henry, Chautauqua County Historian  
**Historian's Advisory Committee**  
1 North Erie Street  
PO Box 170  
Mayville, NY 14757

Andrew Jackson, Director  
**Chautauqua County Visitors' Bureau**  
P.O. Box 1441  
Chautauqua, NY 14722

Richard Zink, Executive Director  
**Southern Tier West Regional Planning &  
Development Board**  
4039 Route 219, Suite 200  
Salamanca, NY 14779

Andrew Dufresne, Executive Director  
**Concord Grape Belt Heritage Association**  
PO Box 194  
Westfield, NY 14787

Doug Conroe, Chair  
**Chautauqua County Environmental Management  
Council**  
200 Harrison Street  
Jamestown, NY 14701

**Seneca Nation of Indians  
Cattaraugus Reservation**  
12837 Route 438  
Irving, New York 14081

Copies To: File.

*On April 2, 2015 - 38 packets were  
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*Mary E. Vanelli*  
MARYE. VANELLI  
Notary Public - State of New York  
No. 01VA6197320  
Qualified in Madison County  
My Commission Expires Nov. 24, 2016