

Appendix E

Wireframe Renderings



 Proposed Wind Turbines screened by existing vegetation and/or topography.

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 1 of 8

Wireframe Rendering Information

Viewpoint Number: 2

View from Chapel Street, Windsor Village
Historic District

Location:
Town of Windsor
Broome County

Direction of View:
East-Southeast

Photo Date:
March 27, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 2 of 8

Wireframe Rendering Information

Viewpoint Number: 6

View from Front Street, Historic State Theater

Location:

Village of Deposit
Delaware County

Direction of View:

Northwest

Photo Date:

March 27, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 3 of 8

Wireframe Rendering Information

Viewpoint Number: 24

View from Roods Creek Boat Launch,
Cannonsville Reservoir

Location:

Town of Deposit
Delaware County

Direction of View:

Northwest

Photo Date:

March 27, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 4 of 8

Wireframe Rendering Information

Viewpoint Number: 33

View from Arctic Lake Shoreline, Oquaga
Creek State Park

Location:

Town of Sanford
Broome County

Direction of View:

South-Southwest

Photo Date:

May 24, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 5 of 8

Wireframe Rendering Information

Viewpoint Number: 60

View from Beach area at Nathaniel Cole Park

Location:

Town of Colesville
Broome County

Direction of View:

Southeast

Photo Date:

March 27, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 6 of 8

Wireframe Rendering Information

Viewpoint Number: 79

View from Finger Lakes Trail Designated
Overlook, Beals Pond State Forest

Location:
Town of Sanford
Broome County

Direction of View:
Southwest

Photo Date:
May 24, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 7 of 8

Wireframe Rendering Information

Viewpoint Number: 115

View from White Birch Lake Road

Location:

Town of Windsor
Broome County

Direction of View:

Northeast

Photo Date:

May 24, 2018





Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

Appendix E: Wireframe Renderings

Sheet 8 of 8

Wireframe Rendering Information

Viewpoint Number: 116

View from County Route 584 (Edson Road)

Location:

Town of Windsor
Broome County

Direction of View:

Northeast

Photo Date:

May 24, 2018



Appendix F

Visual Impact Assessment Rating Forms

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Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 12
Distance to Nearest Visible Turbine: 1.78 miles
Viewpoint Location: 2ND Street, Town of Deposit
Landscape Similarity Zone: Village
Viewer Type: Local Residents, Tourists/Recreational Users
Sensitive Site: Village of Deposit

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Highly complex moderate or low/moderate view including various buildings/monuments & utility wires in foreground.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>1.0</i>	<i>Turbine visible on ridgeline</i>
Vegetation	<i>0.5</i>	<i>Turbine visible amongst vegetation</i>
Land Use	<i>0.5</i>	<i>Turbine does not dominate - too much else happening in view.</i>
Water	<i>N/A</i>	
Sky	<i>1.0</i>	<i>Turbine visible against skyline</i>
Viewer Activity	<i>0.5</i>	<i>Viewers may notice turbine.</i>
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 12
2ND Street

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Turbine will be less visible when foliage is on trees.

Perceived effect on scenic quality/viewer enjoyment:

Due to the complexity of this view, the addition of the turbine along the ridgeline will likely go relatively unnoticed.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn GAVITT*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 15
Distance to Nearest Visible Turbine: 1.83 miles
Viewpoint Location: Elm Street, at Deposit School Track, Town of Deposit
Landscape Similarity Zone: Village
Viewer Type: Local Residents
Sensitive Site: Deposit Middle School/High School

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Infrastructure dominates foreground and mid-ground with rolling hills in background. Focus is in the mid-ground, and very complex/cluttered.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>1.5</i>	<i>Turbines protrude from top of landform.</i>
Vegetation	<i>0.5</i>	<i>Turbines noticeable above mature vegetation.</i>
Land Use	<i>0.5</i>	<i>Turbines visible but more dominant use exists.</i>
Water	<i>N/A</i>	
Sky	<i>1.5</i>	<i>Turbines visible in skyline.</i>
Viewer Activity	<i>0.5</i>	<i>Viewers will notice turbines but focus</i>
TOTAL	<i>4.5</i>	<i>Total all scores above</i>
AVERAGE	<i>0.9</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

remains on midground infrastructure.

Viewpoint 15

Elm Street, at Deposit School Track

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Cleaver atmospheric conditions may render turbines slightly more dominant in view.

Perceived effect on scenic quality/viewer enjoyment:

Turbines are noticeable along ridgeline and have minimal impact on view due to the intensity of visual focus and clutter in the mid and foreground at this viewpoint.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gault*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 17
Distance to Nearest Visible Turbine: 2.62 miles
Viewpoint Location: State Route 17, Town of Deposit
Landscape Similarity Zone: Transportation Corridor
Viewer Type: Through-Travellers/Commuters
Sensitive Site: State Route 17

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

- Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Scenic vista from highway in foreground and mid-ground to rolling wooded hills in the background. Visual clutter is limited to the road area.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3	Cluster of turbines above landform become focus.
Vegetation	2.5	Turbines dwarf mature vegetation
Land Use	3.5	Turbines become dominant land use.
Water	N/A	
Sky	3	Cluster of turbines highly visible against skyline.
Viewer Activity	2.5	Viewers will focus on turbines from this viewpoint.
TOTAL	14.5	Total all scores above
AVERAGE	2.9	Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 17
State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clearer atmospheric conditions or backlit sunset conditions might make turbines more dominant.

Perceived effect on scenic quality/viewer enjoyment:

This view is of good quality, though the highway does have a strong presence in the existing view. The addition of the turbines creates a clear focus on this new infrastructure on the background hills. Turbines become the focus of this viewpoint.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *5/19/18*



Viewpoint Information:

Viewpoint Number: 22
Distance to Nearest Visible Turbine: 2.34 miles
Viewpoint Location: State Route 8, Town of Deposit
Landscape Similarity Zone: Rural Residential/Agricultural
Viewer Type: Through Travelers/Commuters
Sensitive Site: State Route 8

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Open view across agricultural valley with tall hills in the background. Farmland structures create focal interest & distraction.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3	Turbines highlight ridgeline.
Vegetation	3	Turbines dwarf adjacent mature trees.
Land Use	2	Turbines create noticeable use.
Water	N/A	
Sky	3	Turbines visible/prominent @ skyline
Viewer Activity	3	Viewers will notice turbines.
TOTAL	14	Total all scores above
AVERAGE		Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 22
State Route 8

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Seasonal foliage & color could have
small impact.

Perceived effect on scenic quality/viewer enjoyment:

Turbines will be noticed by viewers, as they
are numerous and highly visible from
this location. There is a significant
amount of existing structure/infrastructure
in the foreground to mitigate impact.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: Jocelyn Gavitt
Date: 6/20/18



Viewpoint Information:

Viewpoint Number: 39
Distance to Nearest Visible Turbine: 4.83 miles
Viewpoint Location: Oquaga Creek State Park, Ski Trail, Town of Sanford
Landscape Similarity Zone: Rural Residential/Agriculture
Viewer Type: Tourists/Recreational Users
Sensitive Site: Oquaga Creek State Park

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Small pond in mid-ground provides focal point.
Rolling low hills provide backdrop.
No infrastructure. Vegetation in front of pond obscures some water view.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	0.5	Turbine blades visible beyond ridge
Vegetation	0	Turbines have no real impact on vegetation
Land Use	1.0	Turbines are visible.
Water	0.5	Water is still focus of view.
Sky	0.5	Turbines just noticeable.
Viewer Activity	0.5	Viewers may notice turbines
TOTAL	3.0	Total all scores above
AVERAGE	0.5	Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 39

Oquaga Creek State Park, Ski Trail

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric conditions can alter visibility.

Perceived effect on scenic quality/viewer enjoyment:

Turbine blades can be seen but are not very noticeable in this view composition. The focus remains on the pond. The turbines have little impact.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:

Jocelyn Garitt



Viewpoint Information:

Viewpoint Number: 48

Distance to Nearest Visible Turbine: 0.79 miles

Viewpoint Location: County Route 241 (North Sanford Road) at Oquaga Creek Fishing Access Site, NYS DEC, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agriculture

Viewer Type: Local Residents, Through Travelers/Commuters

Sensitive Site: NYS DEC Fishing Access, Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Rural landscape composition with road & farm as focal infrastructure, open fields in foreground and rising vegetated hills in background.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.5	<i>Turbines atop hill punctuate landform.</i>
Vegetation	3.5	<i>Turbines dwarf adjacent trees.</i>
Land Use	3.0	<i>Turbines become dominant use.</i>
Water	N/A	
Sky	3.0	<i>Turbines punctuate skyline</i>
Viewer Activity	3.0	<i>Viewers will focus on turbines.</i>
TOTAL	16	<i>Total all scores above</i>
AVERAGE	3.2	<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 48

County Route 241 (North Sanford Road) at Oquaga Creek Fishing Access Site, NYS DEC

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

None

Perceived effect on scenic quality/viewer enjoyment:

Due to proximity and location atop defined hills, turbines stand out as significant addition to the landscape. They become a focal point and redefine this view.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *5/19/18*



Viewpoint Information:

Viewpoint Number: 55
Distance to Nearest Visible Turbine: 0.68 mile
Viewpoint Location: William Law Road, Town of Sanford
Landscape Similarity Zone: Rural Residential/Agricultural
Viewer Type: Local Resident
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

View across open field, flat w/ distant woods & some very distant hills. Visual clutter in foreground creates focus.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.5	<i>Turbine rises dramatically in midground.</i>
Vegetation	3.5	<i>Turbine dwarfs adjacent trees.</i>
Land Use	3	<i>Turbine becomes focused feature</i>
Water	N/A	
Sky	3	<i>Turbines highly visible against skyline.</i>
Viewer Activity	3	<i>Viewers will focus on proposed turbines.</i>
TOTAL	16	<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 55

William Law Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric & seasonal conditions
could have slight impact on ratings.

Perceived effect on scenic quality/viewer enjoyment:

Due to the close proximity of one of the
turbines, this view is dominated by the
tall structure. This was not a precious
view to begin with, but the focus has
clearly changed to the close turbine.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Garitt*
Date: *5.19.18*



Viewpoint Information:

Viewpoint Number: 58
Distance to Nearest Visible Turbine: 1.18 miles
Viewpoint Location: Pazzelli Road, Town of Sanford
Landscape Similarity Zone: Rural Residential/Agricultural
Viewer Type: Local Resident
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

View down country road with open fields in the foreground and rolling hills in the background.



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	4	Turbines rise dramatically from hills
Vegetation	4	Turbines loom far above trees
Land Use	3.5	Turbines become focus of view.
Water	N/A	
Sky	3.5	Turbines fill skyline
Viewer Activity	4	Viewers will be focused on turbines
TOTAL		Total all scores above
AVERAGE		Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 58
Pazzelli Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric conditions and seasonal coloring could have a slight impact on ratings.

Perceived effect on scenic quality/viewer enjoyment:

High quantity and close proximity of turbines in this view create a significantly altered experience for the viewer. Turbines dominate this proposed view.

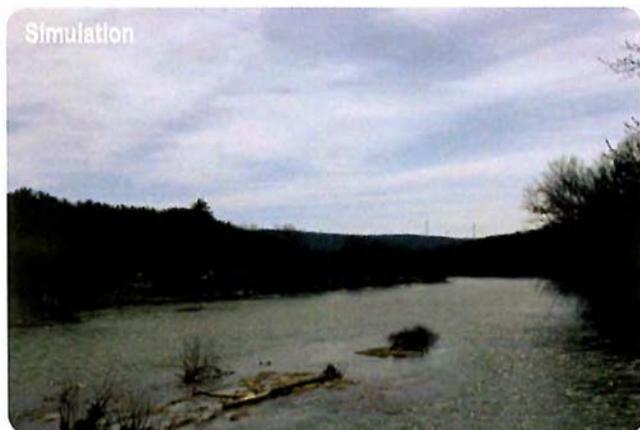
Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: Jocelyn Cavitt
Date: 5.19.18



Viewpoint Information:

Viewpoint Number: 59
Distance to Nearest Visible Turbine: 4.76 miles
Viewpoint Location: Bridge Street (Center Village Bridge), Town of Colesville
Landscape Similarity Zone: Open Water/Rural Residential
Viewer Type: Local Resident
Sensitive Site: Bridge BIN 3349160 (Center Village Bridge)

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Complex view of river
with hills in the distance.
Features in the river &
river's edge dominate
view.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.5	Turbines rise sharply above landform
Vegetation	2	Turbines dwarf adjacent vegetation
Land Use	2	Turbines will be noticed
Water	2.5	Turbines compete w/ water for interest,
Sky	2.5	Visible against sky
Viewer Activity	2.5	Viewers will notice turbines
TOTAL	16	Total all scores above
AVERAGE		Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 59

**Bridge Street (Center Village
Bridge)**

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

More varied foliage coloring could serve to draw focus closer to foreground, reducing impact of turbines.

Perceived effect on scenic quality/viewer enjoyment:

Turbines are clearly visible atop distant hills and will be noticed by viewers. This particular view has enough complexity and interest in the foreground to minimize impact.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *5.19.18*



Viewpoint Information:

Viewpoint Number: 61
Distance to Nearest Visible Turbine: 3.00 miles
Viewpoint Location: State Route 79, Town of Colesville
Landscape Similarity Zone: Rural Residential/Agricultural
Viewer Type: Through Travelers/Commuters
Sensitive Site: State Route 79

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Open flat field in foreground w/ rolling hills in background. View is free of objects/structures.



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.5	Turbines rise dramatically above landform
Vegetation	3	Turbines out of scale w/ trees
Land Use	3	Turbines are only visible "use"
Water	N/A	
Sky	2.5	Turbines create contrast against skyline.
Viewer Activity	3	Viewers will focus on turbines
TOTAL	14	Total all scores above
AVERAGE		Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 61
State Route 79

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

More vibrant foliage color might minimize impact slightly.

Perceived effect on scenic quality/viewer enjoyment:

These proposed turbines are the only visible structures that appear in this view and will therefore become the focal point of the view.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 64
Distance to Nearest Visible Turbine: 1.41 miles
Viewpoint Location: I 86/ State Route 17, Town of Windsor
Landscape Similarity Zone: Transportation Corridor
Viewer Type: Through-Travelers/Commuters
Sensitive Site: Interstate 86/State Route 17

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

*Open view down highway
corridor edge with tall vegetation
on one side and distant
hill in background. Highway
dominates view.*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3.5</i>	<i>Turbine dominates landform</i>
Vegetation	<i>3.0</i>	<i>Turbines loom above mature vegetation</i>
Land Use	<i>3.0</i>	<i>Turbines become new focus</i>
Water	<i>N/A</i>	
Sky	<i>3.5</i>	<i>Turbines dominate skyline</i>
Viewer Activity	<i>3.0</i>	<i>Viewers will focus on turbines.</i>
TOTAL	<i>16.0</i>	<i>Total all scores above</i>
AVERAGE	<i>3.2</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 64

I 86/ State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Full foliage may slightly reduce impact/visibility of turbines.

Perceived effect on scenic quality/viewer enjoyment:

Due to placement and proximity of turbines, viewers will focus on their presence in this viewpoint. Most visible turbine is elevated, and sits in an axial relationship to the highway.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: Jocelyn Gravitt
Date: 5/19/18



Viewpoint Information:

Viewpoint Number: 67
Distance to Nearest Visible Turbine: 4.1 miles
Viewpoint Location: State Route 10, Cannonsville Reservoir Pull-Off, Town of Tompkins
Landscape Similarity Zone: Open Water
Viewer Type: Local Resident, Tourists/Recreational Users
Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

View across reservoir
with stone dam creating
focal point in midground.
Rolling hills create scenic
backdrop.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.5	Highly visible along ridgeline
Vegetation	3	Turbines dwarf adjacent trees
Land Use	3	Turbines compete w/ reservoir as focal pt.
Water	3	Turbines distract from reservoir
Sky	3	Turbines create contrast against sky.
Viewer Activity	2.5	Viewers will notice turbines.
TOTAL	17	Total all scores above
AVERAGE		Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 67

State Route 10 Cannonsville Reservoir Pull-Off

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clearer atmospheric conditions could create more contrast.

Perceived effect on scenic quality/viewer enjoyment:

Multiple turbines in a cluster along the ridgeline in this view compete for attention with the reservoir and dam infrastructure.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 67
Distance to Nearest Visible Turbine: 4.1 miles
Viewpoint Location: State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir, Town of Deposit
Landscape Similarity Zone: Open Water
Viewer Type: Tourists/Recreational Users
Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare



Viewer Description: (Please describe this view in your own words.)

Dynamic view of open water below, constructed edge in midground, open vista of rolling hills in background. Free of clutter.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.0	<i>Cluster of turbines perched atop landform.</i>
Vegetation	3.0	<i>Turbines loom over adjacent vegetation.</i>
Land Use	3.5	<i>Turbines become highly visible land use.</i>
Water	3.0	<i>Turbines compete with water as focus.</i>
Sky	3.5	<i>Turbines obstruct skyline.</i>
Viewer Activity	3.5	<i>Viewers will notice / focus on turbines</i>
TOTAL	19.5	<i>Total all scores above</i>
AVERAGE	3.25	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 67

State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric moisture could reduce visibility of turbines.

Perceived effect on scenic quality/viewer enjoyment:

Turbines alter this picturesque view by bringing attention away from the water and up to the skyline. Turbines compete for viewers attention.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Cavitt*
Date: *6/20/10*



Viewpoint Information:

Viewpoint Number: 69
Distance to Nearest Visible Turbine: 2.07 miles
Viewpoint Location: West Branch Delaware River, Pine Street Extension Bridge, Town of Deposit
Landscape Similarity Zone: Village, Open Water
Viewer Type: Local Residents, Tourists/Recreational Users
Sensitive Site: West Branch Delaware River

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Complex view including bridge, railing, overhead wires and structures in the foreground. Vegetated hill rises behind.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.0	<i>Turbines rise from tall landform.</i>
Vegetation	1.5	<i>Turbines out of scale w/ vegetation</i>
Land Use	1.0	<i>Turbines introduce new land use.</i>
Water	0.0	<i>Water not really visible</i>
Sky	1.0	<i>Turbines noticeable against sky</i>
Viewer Activity	0.5	<i>Viewers may notice turbines but they</i>
TOTAL	6.0	<i>Total all scores above are not dominant.</i>
AVERAGE	1.0	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 69

West Branch Delaware River, Pine Street Extension Bridge

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Cleaner atmospheric conditions could render turbines more visible.

Perceived effect on scenic quality/viewer enjoyment:

Turbines are visible along ridgeline but may remain relatively unnoticed in this viewpoint due to the complexity of this view and other competing infrastructure.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 83

Distance to Nearest Visible Turbine: 1.69 miles

Viewpoint Location: Page Pond Road, Town of Sanford

Landscape Similarity Zone: Forest, Open Water

Viewer Type: Tourists/Recreational Users

Sensitive Site: Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Creek provides focal point for this view flanked by complex vegetation and distant rolling hills in background.



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.5	<i>Turbines rise dramatically above ridgeline.</i>
Vegetation	2.5	<i>Turbines out of scale with vegetation</i>
Land Use	2.0	<i>Turbines become visible land use.</i>
Water	N/A	
Sky	3.0	<i>Turbines dominate skyline.</i>
Viewer Activity	2.5	<i>Viewers will notice turbines.</i>
TOTAL	12.5	<i>Total all scores above</i>
AVERAGE	2.5	<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 83

Page Pond Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric conditions could alter visibility.
Lack of foliage could increase impact.

Perceived effect on scenic quality/viewer enjoyment:

Turbines are quite visible due to position in this viewpoint but their impact is somewhat mitigated by the complexity of the vegetation in the foreground and mid-ground. The turbines compete with the creek.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gasitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 85
Distance to Nearest Visible Turbine: 0.4 miles
Viewpoint Location: Loomis Hill Road, Town of Sanford
Landscape Similarity Zone: Forest
Viewer Type: Local Residents
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Simple view of rising vegetated land in foreground to midground. Open sky. Utility wire in foreground.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>4</i>	<i>Turbine contrasts with simple landform.</i>
Vegetation	<i>4</i>	<i>Dramatic scale differential</i>
Land Use	<i>3.5</i>	<i>Turbine is dominant land use.</i>
Water	<i>n/a</i>	
Sky	<i>4</i>	<i>Turbine dominates skyline.</i>
Viewer Activity	<i>3.5</i>	<i>Viewers will feel presence of turbine.</i>
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 85
Loomis Hill Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

None - due to close proximity

Perceived effect on scenic quality/viewer enjoyment:

While this does not seem to be a much frequented or significant existing view, the introduction of the turbine in close, elevated proximity dominates the new view completely.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavit*
Date: *6/20/19*



Viewpoint Information:

Viewpoint Number: 102
Distance to Nearest Visible Turbine: 1.5 miles
Viewpoint Location: Bryce Road at Marsh Pond Road, Marsh Pond State Forest, Town of Sanford
Landscape Similarity Zone: Forest, Open Water
Viewer Type: Local Residents, Tourists/Recreational Users
Sensitive Site: Marsh Pond State Forest

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Open view of pond in foreground, low level forested land form in the midground and open sky beyond.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3	Numerous turbines rise above land.
Vegetation	3.5	Turbines dominate over vegetation.
Land Use	3	Turbines become most obvious land use.
Water	3.5	Reflections of turbines populate water surface.
Sky	3.5	Turbines dominate/define sky.
Viewer Activity	3.5	Viewers will focus on turbines as much as water.
TOTAL	20	Total all scores above
AVERAGE	3.33	Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 102

Bryce Road at Marsh Pond Road, Marsh Pond State Forest

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

A less clear day would minimize impact to some degree.

Perceived effect on scenic quality/viewer enjoyment:

This water view is now co-dominated by a significant cluster of turbines looming tall around the periphery. Viewers will see this landscape as re-defined by presence of proposed infrastructure

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gravitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 104
Distance to Nearest Visible Turbine: 0.5 miles
Viewpoint Location: Bryce Road, Town of Sanford
Landscape Similarity Zone: Forest
Viewer Type: Local Residents
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Vegetated hill dominates this view with open flat land in foreground and no clutter or infrastructure visible.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3.5</i>	<i>Turbines look large on ridgeline</i>
Vegetation	<i>3.5</i>	<i>Turbines rise high above mature vegetation</i>
Land Use	<i>4.0</i>	<i>Turbines become dominant land use.</i>
Water	<i>N/A</i>	
Sky	<i>4.0</i>	<i>Due to proximity, turbines completely dominate sky.</i>
Viewer Activity	<i>3.5</i>	<i>Viewers will feel close and dominant presence of turbines.</i>
TOTAL	<i>18.5</i>	<i>Total all scores above</i>
AVERAGE	<i>3.7</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 104

Bryce Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Atmospheric conditions in this simulation allow turbines to have maximum impact.

Perceived effect on scenic quality/viewer enjoyment:

Due to close proximity and viewer position well below turbines, their presence is quite dominant. Viewers will feel their presence looming large above. There is strong impact in this viewpoint, though it seems to be from a location that does not have frequent viewers.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 107
Distance to Nearest Visible Turbine: 0.97 miles
Viewpoint Location: Mountain View Drive, Deer Lake, Town of Sanford
Landscape Similarity Zone: Forest, Open Water
Viewer Type: Local Residents
Sensitive Site: Deer Lake

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Complex view with residential infrastructure and a few tall trees dominating foreground. Water can barely be seen beyond in midground and rolling hills rise in mid-background.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.5	<i>Turbines rise dramatically from ridgeline.</i>
Vegetation	3.0	<i>Turbines alter scale of existing vegetation.</i>
Land Use	3.0	<i>Turbines are highly visible and compete w/ other uses.</i>
Water	1.5	<i>Turbines more noticeable than water.</i>
Sky	3.0	<i>Turbines framed in open sky.</i>
Viewer Activity	3.5	<i>Viewers will focus on turbines.</i>
TOTAL	17.5	<i>Total all scores above</i>
AVERAGE	2.91	<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 107

Mountain View Drive, Deer Lake

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Late in day lighting conditions create dark shadows in foreground. If foreground was better lit, the visual clutter of the structures might compete more with the dominance of the turbines.

Perceived effect on scenic quality/viewer enjoyment:

This is not a pristine view to begin with as there is significant complexity in the foreground. But the placement of the turbines high above in the not-so-distant hillside creates a new and significant focus.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *Jocelyn Gavitt*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 113
Distance to Nearest Visible Turbine: 4.2 miles
Viewpoint Location: Piper Hill Road, west of intersection with White Birch Lake Road, Town of Windsor
Landscape Similarity Zone: Rural Residential/Agriculture
Viewer Type: Local Residents
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Very distinct open vista from higher elevation looking across valley & rolling vegetated hillsides. Infrastructure present in populated valley. Hillsides appear to be clear of infrastructure.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	4.0	<i>Turbines alter focus from valley to ridgeline</i>
Vegetation	3.0	<i>Turbines out of scale with distant vegetation</i>
Land Use	3.5	<i>Turbines are most visible land use.</i>
Water	N/A	
Sky	3.5	<i>Turbines populate skyline</i>
Viewer Activity	3.0	<i>Viewers will focus on turbines.</i>
TOTAL	17.0	<i>Total all scores above</i>
AVERAGE	3.4	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 113

Piper Hill Road, west of intersection with White Birch Lake Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Less clear conditions will minimize impact of turbines.

Perceived effect on scenic quality/viewer enjoyment:

While this does not appear to be a highly frequented or prolonged view, the existing composition is quite pleasing. The additions of the large cluster of turbines across the ridgelines refocuses the viewer and appreciably alters the quality of this view.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 12

Distance to Nearest Visible Turbine: 1.78 miles

Viewpoint Location: 2ND Street, Town of Deposit

Landscape Similarity Zone: Village

Viewer Type: Local Residents, Tourists/Recreational Users

Sensitive Site: Village of Deposit

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 12
2ND Street

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 15

Distance to Nearest Visible Turbine: 1.83 miles

Viewpoint Location: Elm Street, at Deposit School Track, Town of Deposit

Landscape Similarity Zone: Village

Viewer Type: Local Residents

Sensitive Site: Deposit Middle School/High School

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 15

Elm Street, at Deposit School Track

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 17

Distance to Nearest Visible Turbine: 2.62 miles

Viewpoint Location: State Route 17, Town of Deposit

Landscape Similarity Zone: Transportation Corridor

Viewer Type: Through-Travellers/Commuters

Sensitive Site: State Route 17

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 17
State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 22

Distance to Nearest Visible Turbine: 2.34 miles

Viewpoint Location: State Route 8, Town of Deposit

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Through Travelers/Commuters

Sensitive Site: State Route 8

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 22

State Route 8

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

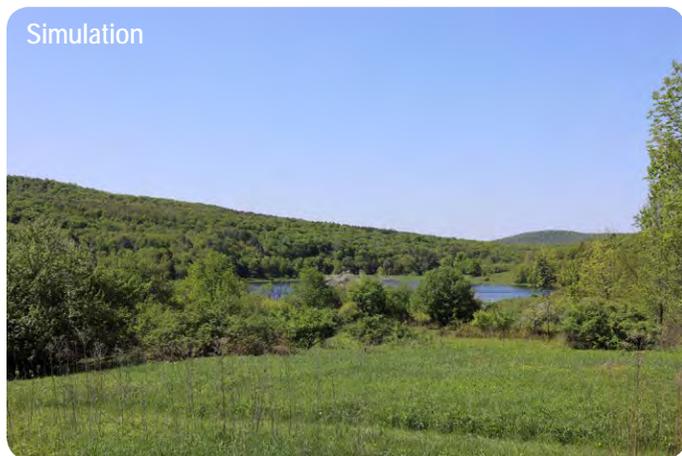
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 39

Distance to Nearest Visible Turbine: 4.83 miles

Viewpoint Location: Oquaga Creek State Park, Ski Trail, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agriculture

Viewer Type: Tourists/Recreational Users

Sensitive Site: Oquaga Creek State Park

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 39

Oquaga Creek State Park, Ski Trail

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 48

Distance to Nearest Visible Turbine: 0.79 miles

Viewpoint Location: County Route 241 (North Sanford Road) at Oquaga Creek Fishing Access Site, NYS DEC, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agriculture

Viewer Type: Local Residents, Through Travelers/Commuters

Sensitive Site: NYS DEC Fishing Access, Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 48

County Route 241 (North Sanford Road) at Oquaga Creek Fishing Access Site, NYS DEC

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 55

Distance to Nearest Visible Turbine: 0.68 mile

Viewpoint Location: William Law Road, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Local Resident

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 55

William Law Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 58

Distance to Nearest Visible Turbine: 1.18 miles

Viewpoint Location: Pazzelli Road, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Local Resident

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 58

Pazzelli Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 59

Distance to Nearest Visible Turbine: 4.76 miles

Viewpoint Location: Bridge Street (Center Village Bridge), Town of Colesville

Landscape Similarity Zone: Open Water/Rural Residential

Viewer Type: Local Resident

Sensitive Site: Bridge BIN 3349160 (Center Village Bridge)

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 59

Bridge Street (Center Village Bridge)

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 61

Distance to Nearest Visible Turbine: 3.00 miles

Viewpoint Location: State Route 79, Town of Colesville

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Through Travelers/Commuters

Sensitive Site: State Route 79

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 61
State Route 79

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 64

Distance to Nearest Visible Turbine: 1.41 miles

Viewpoint Location: I 86/ State Route 17, Town of Windsor

Landscape Similarity Zone: Transportation Corridor

Viewer Type: Through-Travelers/Commuters

Sensitive Site: Interstate 86/State Route 17

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 64

I 86/ State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

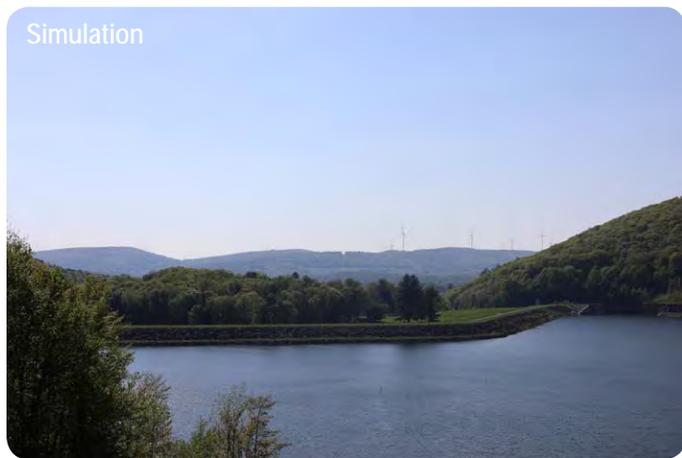
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 67

Distance to Nearest Visible Turbine: 4.1 miles

Viewpoint Location: State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir, Town of Deposit

Landscape Similarity Zone: Open Water

Viewer Type: Tourists/Recreational Users

Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 67

State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 67

Distance to Nearest Visible Turbine: 4.1 miles

Viewpoint Location: State Route 10, Cannonsville Reservoir Pull-Off,
Town of Tompkins

Landscape Similarity Zone: Open Water

Viewer Type: Local Resident, Tourists/Recreational Users

Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

**Contrast Rating
Score Chart**

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 67

State Route 10 Cannonsville Reservoir Pull-Off

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 69

Distance to Nearest Visible Turbine: 2.07 miles

Viewpoint Location: West Branch Delaware River, Pine Street Extension Bridge, Town of Deposit

Landscape Similarity Zone: Village, Open Water

Viewer Type: Local Residents, Tourists/Recreational Users

Sensitive Site: West Branch Delaware River

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 69

West Branch Delaware River, Pine Street Extension Bridge

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 83

Distance to Nearest Visible Turbine: 1.69 miles

Viewpoint Location: Page Pond Road, Town of Sanford

Landscape Similarity Zone: Forest, Open Water

Viewer Type: Tourists/Recreational Users

Sensitive Site: Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*



Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 83

Page Pond Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 85

Distance to Nearest Visible Turbine: 0.4 miles

Viewpoint Location: Loomis Hill Road, Town of Sanford

Landscape Similarity Zone: Forest

Viewer Type: Local Residents

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low
 Moderate
 High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 85
Loomis Hill Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 102

Distance to Nearest Visible Turbine: 1.5 miles

Viewpoint Location: Bryce Road at Marsh Pond Road, Marsh Pond State Forest, Town of Sanford

Landscape Similarity Zone: Forest, Open Water

Viewer Type: Local Residents, Tourists/Recreational Users

Sensitive Site: Marsh Pond State Forest

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 102

Bryce Road at Marsh Pond Road, Marsh Pond State Forest

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 104

Distance to Nearest Visible Turbine: 0.5 miles

Viewpoint Location: Bryce Road, Town of Sanford

Landscape Similarity Zone: Forest

Viewer Type: Local Residents

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low
 Moderate
 High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 104

Bryce Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 107

Distance to Nearest Visible Turbine: 0.97 miles

Viewpoint Location: Mountain View Drive, Deer Lake, Town of Sanford

Landscape Similarity Zone: Forest, Open Water

Viewer Type: Local Residents

Sensitive Site: Deer Lake

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low
 Moderate
 High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 107

Mountain View Drive, Deer Lake

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

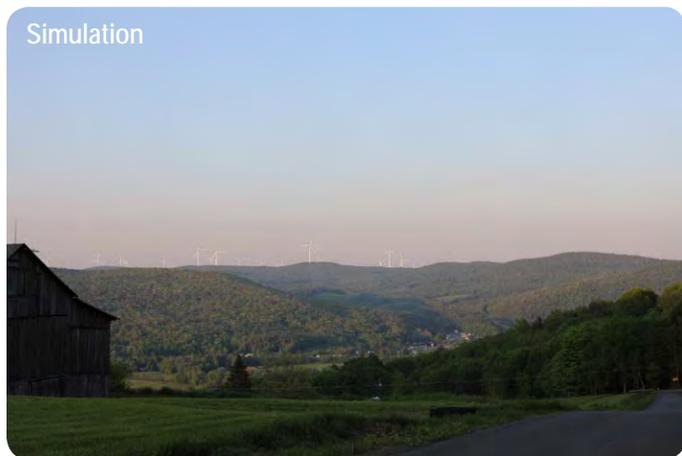
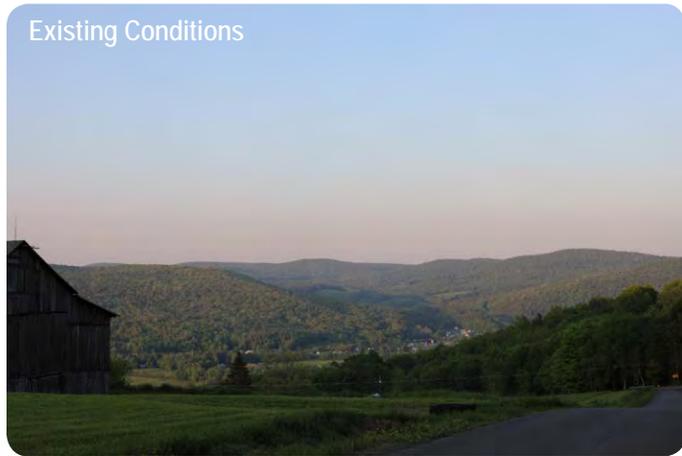
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name:

Date:



Viewpoint Information:

Viewpoint Number: 113

Distance to Nearest Visible Turbine: 4.2 miles

Viewpoint Location: Piper Hill Road, west of intersection with White Birch Lake Road, Town of Windsor

Landscape Similarity Zone: Rural Residential/Agriculture

Viewer Type: Local Residents

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

- Low
 Moderate
 High

Viewer Exposure: *(Please rate frequency and duration of view)*

- Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform		
Vegetation		
Land Use		
Water		
Sky		
Viewer Activity		
TOTAL		<i>Total all scores above</i>
AVERAGE		<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant

.5

1 Minimal

1.5

2 Moderate

2.5

3 Appreciable

3.5

4 Strong

Viewpoint 113

Piper Hill Road, west of intersection with White Birch Lake Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Perceived effect on scenic quality/viewer enjoyment:

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name *W. KACINA*

Date *7/13/18*



Viewpoint Information:

Viewpoint Number: 12

Distance to Nearest Visible Turbine: 1.78 miles

Viewpoint Location: 2ND Street, Town of Deposit

Landscape Similarity Zone: Village

Viewer Type: Local Residents, Tourists/Recreational Users

Sensitive Site: Village of Deposit

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

Although the monument in the foreground is a focal point there are numerous distractions that a viewer could focus on from this location. Views are not necessarily directed to the horizon.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	1.5	Tree tops above hills at horizon distract from the turbine.
Vegetation	1.5	Some distinction of turbine's form compared to existing trees.
Land Use	1.0	Various land uses are present in this view.
Water	0	NA
Sky	1.5	Some contrast against the sky in form.
Viewer Activity	1.5	Multiple points can attract views, such as monument + church in foreground.
TOTAL	7.0	Total all scores above
AVERAGE	1.2	Average all scores above

Contrast Rating

Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 12

2ND Street

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

View of the turbine is from the side, which lessens its appearance as well as natural lighting under these conditions.

Perceived effect on scenic quality/viewer enjoyment:

Not a significant effect on scenic quality or viewer enjoyment from this viewpoint.

Visual Impact Rating Form

Blind Brook Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: W. KALINA

Date: 6/20/18



Viewpoint Information:

Viewpoint Number: 15

Distance to Nearest Visible Turbine: 1.83 miles

Viewpoint Location: Elm Street, at Deposit School Track, Town of Deposit

Landscape Similarity Zone: Village

Viewer Type: Local Residents

Sensitive Site: Deposit Middle School/High School

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Although this is a developed area the background landscape of trees + woodland improves its appearance. There are utilities (substation, transmission lines, etc.) that degrade the view.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.0	Vertical contrast between turbines + gently sloping hills.
Vegetation	2.5	Contrast in scale + form
Land Use	1.5	Area is developed, contrast is not substantial
Water	0	
Sky	3.0	Contrast in color + form is considerable under these conditions
Viewer Activity	2.0	No focal point exists, so viewers have a variety of things to see
TOTAL	11	Total all scores above
AVERAGE	1.8	Average all scores above

Contrast Rating

Score Chart

0	Insignificant
.5	
1	Minimal
1.5	
2	Moderate
2.5	
3	Appreciable
3.5	
4	Strong

Viewpoint 15

Elm Street, at Deposit School Track

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Turbines are more visible under these lighting conditions and clear sky. Visibility would be less under overcast conditions.

Perceived effect on scenic quality/viewer enjoyment:

The effect is moderate due to the form and scale of the turbines that contrast against the sky on the horizon. The effect is lessened due to other focal points and land use in this view.

Visual Impact Rating Form

Scenic Wind Project

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 17
Distance to Nearest Visible Turbine: 2.62 miles
Viewpoint Location: State Route 17, Town of Deposit
Landscape Similarity Zone: Transportation Corridor
Viewer Type: Through-Travellers/Commuters
Sensitive Site: State Route 17

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Wooded hills along the horizon dominate the view due to contrast in form & color against the sky. The roadway tends to lead the viewer's eye to the hills in the background.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.0	Contrast created by the vertical form of the turbines versus linear nature of hills.
Vegetation	3.0	Contrast in scale and form
Land Use	2.0	Views are degraded by existing roadway.
Water	0	
Sky	2.0	Contrast in form and color against clear sky.
Viewer Activity	2.0	Motorists will have brief views, but turbines are a focal point.
TOTAL	12	Total all scores above
AVERAGE	2.0	Average all scores above

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 17
State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear, blue sky and these lighting conditions tend to highlight the presence of the turbines.

Perceived effect on scenic quality/viewer enjoyment:

Moderate effect on scenic quality. Some viewers may react favorably to the turbines while others may see them as intruding on the natural landscape.

Visual Impact Rating Form

Bluestone Wind Project

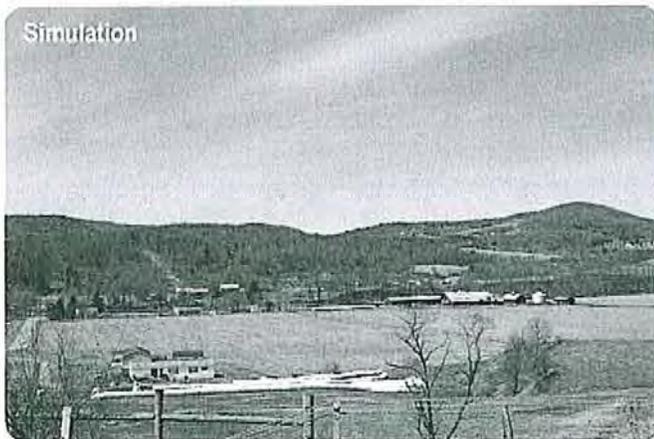
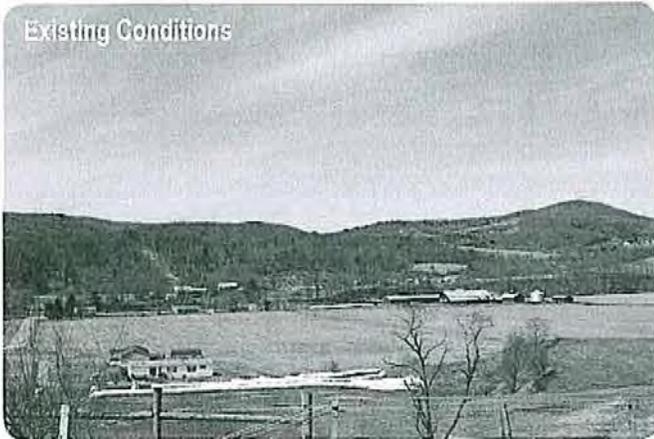
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*

Date: *5/23/18*



Viewpoint Information:

Viewpoint Number: 22

Distance to Nearest Visible Turbine: 2.34 miles

Viewpoint Location: State Route 8, Town of Deposit

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Through Travelers/Commuters

Sensitive Site: State Route 8

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Attractive rural view dominated by existing land forms (wooded hillsides) on the horizon in sharp contrast to background sky.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3</i>	<i>Contrast between linear land form and vertical structures</i>
Vegetation	<i>3</i>	<i>Contrast in color and texture</i>
Land Use	<i>2</i>	<i>Cultural uses already exist within the landscape</i>
Water	<i>0</i>	<i>N/A</i>
Sky	<i>2</i>	<i>Contrast in color of blue sky against white structures</i>
Viewer Activity	<i>2</i>	<i>Traveler exposure is brief</i>
TOTAL	<i>12</i>	<i>Total all scores above</i>
AVERAGE	<i>2</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

0	Insignificant
.5	
1	Minimal
1.5	
2	Moderate
2.5	
3	Appreciable
3.5	
4	Strong

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No. 16050

Rating Panel Information:

Your Name: *W. KALMA*

Date: *7/13/18*



Viewpoint Information:

Viewpoint Number: 39

Distance to Nearest Visible Turbine: 4.83 miles

Viewpoint Location: Oquaga Creek State Park, Ski Trail, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agriculture

Viewer Type: Tourists/Recreational Users

Sensitive Site: Oquaga Creek State Park

Viewpoint Sensitivity:

Scenic Quality (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

Views from this vantage point are highly attractive due to the lack of cultural influences and activity.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>1.5</i>	<i>Some contrast in form + color of tops of turbines.</i>
Vegetation	<i>1.5</i>	<i>Some contrast in form + color</i>
Land Use	<i>2.0</i>	<i>Contrast between natural elements + presence of turbines</i>
Water	<i>1.0</i>	<i>Water remains a focal point in this view.</i>
Sky	<i>1.5</i>	<i>Contrast is not significant between sky + sun lit turbines</i>
Viewer Activity	<i>2.0</i>	<i>Turbines will be noticeable, but not dominant</i>
TOTAL	<i>9.5</i>	<i>Total all scores above</i>
AVERAGE	<i>1.6</i>	<i>Average all scores above</i>

Contrast Rating

Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 39

Oquaga Creek State Park, Ski Trail

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Seasonal vegetation may distract viewers from focusing on turbines - same for the presence of open water.

Perceived effect on scenic quality/viewer enjoyment:

There may be a small effect on scenic quality, but may not adversely affect viewer enjoyment from this vantage point.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No 16050

Rating Panel Information:

Your Name *W. KALINA*

Date *7/13/18*



Viewpoint Information:

Viewpoint Number 48

Distance to Nearest Visible Turbine 0.79 miles

Viewpoint Location County Route 241 (North Sanford Road) at Oquaga

Creek Fishing Access Site NYS DEC Town of Sanford

Landscape Similarity Zone Rural Residential/Agriculture

Viewer Type Local Residents, Through Travelers/Commuters

Sensitive Site NYS DEC Fishing Access, Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

Nice pastoral view of rural agricultural setting with a balance between land use and natural land forms.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view)

Component	Score	Description of Contrast
Landform	3.0	<i>Substantial contrast with natural form and shape of hills.</i>
Vegetation	3.0	<i>Contrast in color, form and texture of forested hillsides.</i>
Land Use	2.5	<i>Contrast in scale of rural structures.</i>
Water	0	<i>NA</i>
Sky	3.0	<i>Front lighting of turbines by sun creates substantial contrast in color.</i>
Viewer Activity	3.5	<i>Views are focused on turbines</i>
TOTAL	15	<i>Total all scores above</i>
AVERAGE	2.5	<i>Average all scores above</i>

Contrast Rating

Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 48

County Route 241 (North Sanford Road) at Oquaga Creek Fishing Access Site, NYS DEC

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear weather conditions and sunlight highlight the contrasts of the turbines with the surrounding environment.

Perceived effect on scenic quality/viewer enjoyment:

Scenic quality is substantially affected due to focus on turbines in what was otherwise a typical rural setting.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *G. KALINA*
 Date: *5/23/18*



Viewpoint Information:

Viewpoint Number: 55
 Distance to Nearest Visible Turbine: 0.68 mile
 Viewpoint Location: William Law Road, Town of Sanford
 Landscape Similarity Zone: Rural Residential/Agricultural
 Viewer Type: Local Resident
 Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Existing landscape is a nice composition of natural and cultural elements. Balanced differences in color + texture. Large spruce evergreen is a focal point to attract view attention.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3.5</i>	<i>Substantial contrast between linear landforms and vertical turbine structure.</i>
Vegetation	<i>3.5</i>	<i>Substantial contrast in color and texture with existing vegetation.</i>
Land Use	<i>2.0</i>	<i>Existing buildings attract viewer attention somewhat in competition with structures.</i>
Water	<i>0</i>	<i>N/A</i>
Sky	<i>2.0</i>	<i>Under these conditions some contrast in color between turbines + blue sky.</i>
Viewer Activity	<i>2.0</i>	<i>Continuous views from residence or farm fields</i>
TOTAL	<i>13</i>	<i>Total all scores above</i>
AVERAGE	<i>2.9</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Visual Impact Rating Form

Bluestone Wind Project

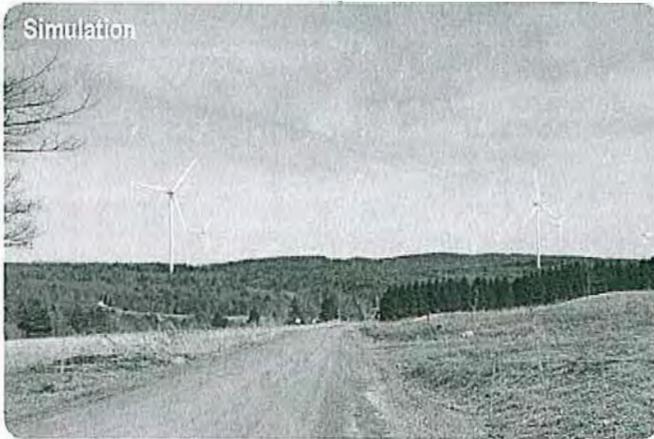
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*

Date: *5/23/15*



Viewpoint Information:

Viewpoint Number: 58

Distance to Nearest Visible Turbine: 1.18 miles

Viewpoint Location: Pazzelli Road, Town of Sanford

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Local Resident

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Existing views are dominated by the rural landscape - roadway, fields, woodland and hillsides. No dominant focal point. Viewer sight is led down the road towards the horizon

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	4	Significant contrast in vertical turbines with linear/horizontal land forms
Vegetation	4	Significant contrast in color and texture with existing vegetation
Land Use	3	Turbines are the dominant land use in this view.
Water	0	N/A
Sky	3.5	White sunlight turbines contrast with sky
Viewer Activity	3.5	Viewer exposure is high, although it may be infrequent.
TOTAL	18	Total all scores above
AVERAGE	3	Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALWA*

Date: *5/23/18*



Viewpoint Information:

Viewpoint Number: 59

Distance to Nearest Visible Turbine: 4.76 miles

Viewpoint Location: Bridge Street (Center Village Bridge), Town of Colesville

Landscape Similarity Zone: Open Water/Rural Residential

Viewer Type: Local Resident

Sensitive Site: Bridge BIN 3349160 (Center Village Bridge)

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Very attractive view of natural forms, colors and texture with little cultural disturbance. Balanced composition between sky, landforms, and water.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	2.0	<i>Turbines along horizon are noticeable due to their vertical nature.</i>
Vegetation	2.0	<i>Contrast in form from this distance.</i>
Land Use	1.5	<i>Some existing land use in this view.</i>
Water	1.0	<i>Water leads the eye towards the horizon/turbines.</i>
Sky	1.5	<i>Turbines are darker in color making them more noticeable.</i>
Viewer Activity	1.5	<i>Some distraction created by turbines.</i>
TOTAL	9.5	<i>Total all scores above</i>
AVERAGE	1.6	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Visual Impact Rating Form

Bluestone Wind Project

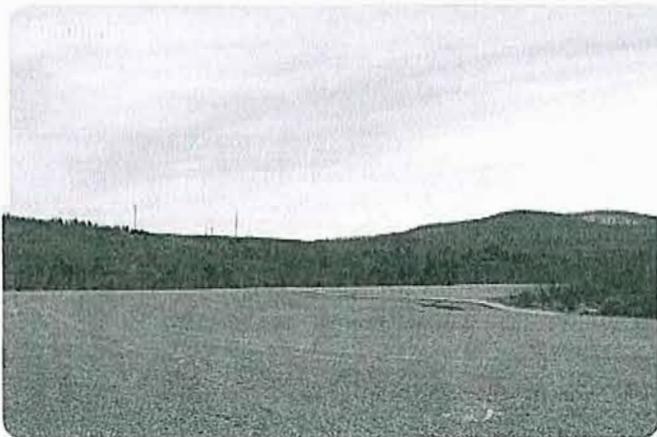
Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*

Date: *5/23/18*



Viewpoint Information:

Viewpoint Number: 61

Distance to Nearest Visible Turbine: 3.00 miles

Viewpoint Location: State Route 79, Town of Colesville

Landscape Similarity Zone: Rural Residential/Agricultural

Viewer Type: Through Travelers/Commuters

Sensitive Site: State Route 79

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Tranquil and pastoral view from this location with attractive balance in color, texture & form among sky, hillside forms & field. Undisturbed view of rural landscape

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3.0</i>	<i>Although distant turbines are very noticeable due to contrast w/ land form of hills</i>
Vegetation	<i>3.0</i>	<i>Contrast between turbines and softened appearance of vegetation is apparent.</i>
Land Use	<i>2.5</i>	<i>Although viewer exposure may be limited the rural landscape is altered.</i>
Water	<i>0</i>	<i>N/A</i>
Sky	<i>2.0</i>	<i>Contrast in darker shade of turbines under these lighting conditions</i>
Viewer Activity	<i>2.5</i>	<i>Limited exposure, but turbines are distracting</i>
TOTAL	<i>13</i>	Total all scores above
AVERAGE	<i>2.2</i>	Average all scores above

Contrast Rating Score Chart

- 0 Insignificant
- .5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Visual Impact Rating Form

Bluestone Wind Project
 Towns of Sanford and Windsor, Broome County, New York
 EDR Project No. 16050

Rating Panel Information:

Your Name *W. KACINA*
 Date *7/13/18*



Viewpoint Information:

Viewpoint Number: 64
 Distance to Nearest Visible Turbine: 1.41 miles
 Viewpoint Location: I 86/ State Route 17, Town of Windsor
 Landscape Similarity Zone: Transportation Corridor
 Viewer Type: Through-Travelers/Commuters
 Sensitive Site: Interstate 86/State Route 17

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

Although views are directed to the landforms on the horizon, this is still a highway corridor dominated by roadway elements.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.5	Significant contrast in scale, form & land use
Vegetation	3.5	Significant contrast with vegetation.
Land Use	3.0	Turbines dominate views
Water	0	NA
Sky	3.0	Despite cirrus clouds, color of turbines still dominate.
Viewer Activity	3.5	Views are directed down the highway to the turbines, emphasizing their presence.
TOTAL	16.5	Total all scores above
AVERAGE	2.75	Average all scores above

Contrast Rating

Score Chart
 0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 64

I 86/ State Route 17

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear sky conditions under these lighting conditions will further highlight the turbines against the sky.

Perceived effect on scenic quality/viewer enjoyment:

Substantial effect on viewer expectations from what might otherwise be considered typical along a highway corridor.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: W. KAUNA

Date: 7/13/18



Viewpoint Information:

Viewpoint Number: 87

Distance to Nearest Visible Turbine: 4.1 miles

Viewpoint Location: State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir, Town of Deposit

Landscape Similarity Zone: Open Water

Viewer Type: Tourists/Recreational Users

Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular

Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

Views are very attractive due to great composition and balance among sky, landscape and water.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.5	Vertical form + height of turbines in sharp contrast to sloping forms on horizon
Vegetation	3.5	Substantial contrast in form + scale of turbines
Land Use	3.5	Substantial contrast in use with introduction of turbines.
Water	3.0	Turbines distract from water in foreground.
Sky	2.5	Hazy sky conditions lessen contrast of turbines
Viewer Activity	2.5	Viewer activity may be affected
TOTAL	18.5	Total all scores above
AVERAGE	3.1	Average all scores above

Contrast Rating

Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 67

State Route 10, NYS Bicycle Route 17, Cannonsville Reservoir

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Hazy conditions may lessen effect of contrast of turbines.

Perceived effect on scenic quality/viewer enjoyment:

The park like setting of the reservoir and aesthetic elements are interrupted by the turbines as an additional competing focal point.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KACMA*

Date: *5/20/12*



Viewpoint Information:

Viewpoint Number: 67

Distance to Nearest Visible Turbine: 4.1 miles

Viewpoint Location: State Route 10, Cannonsville Reservoir Pull-Off, Town of Tompkins

Landscape Similarity Zone: Open Water

Viewer Type: Local Resident, Tourists/Recreational Users

Sensitive Site: Cannonsville Reservoir

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

- Low
 Moderate
 High

Viewer Exposure: (Please rate frequency and duration of view)

- Continuous
 Repeated/Regular
 Occasional/Brief
 Rare

Viewer Description: (Please describe this view in your own words.)

Picturesque view with very nice composition of sky, land form, water and cultural elements - creating visual interest in detail.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>3.0</i>	<i>Attention drawn to turbines by their vertical form.</i>
Vegetation	<i>3.0</i>	<i>Contrast in structural form of turbines with different forms of vegetation</i>
Land Use	<i>2.5</i>	<i>Cultural elements exist in the landscape but are nicely incorporated.</i>
Water	<i>2.5</i>	<i>Eye is drawn to the water in the foreground.</i>
Sky	<i>1.5</i>	<i>Some contrast in color under these sky conditions</i>
Viewer Activity	<i>2.0</i>	<i>Distraction is created away from foreground by turbines along horizon</i>
TOTAL	<i>14.5</i>	<i>Total all scores above</i>
AVERAGE	<i>2.4</i>	<i>Average all scores above</i>

Contrast Rating

- ### Score Chart
- 0 Insignificant
 - .5
 - 1 Minimal
 - 1.5
 - 2 Moderate
 - 2.5
 - 3 Appreciable
 - 3.5
 - 4 Strong

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No. 16050

Rating Panel Information:

Your Name: *W. KALMA*

Date: *7/3/18*



Viewpoint Information:

Viewpoint Number: 69

Distance to Nearest Visible Turbine: 2.07 miles

Viewpoint Location: West Branch Delaware River, Pine Street Extension Bridge, Town of Deposit

Landscape Similarity Zone: Village, Open Water

Viewer Type: Local Residents, Tourists/Recreational Users

Sensitive Site: West Branch Delaware River

Viewpoint Sensitivity:

Scenic Quality (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

*Typical rural village setting
 against wooded hillside.*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>2.0</i>	<i>Some contrast between turbines and wooded hills</i>
Vegetation	<i>2.0</i>	<i>Some contrast in form & scale</i>
Land Use	<i>1.5</i>	<i>Some contrast with village uses, utility lines already affect this view</i>
Water	<i>0</i>	<i>N/A</i>
Sky	<i>1.5</i>	<i>Hazy sky conditions lessen contrast.</i>
Viewer Activity	<i>1.5</i>	<i>Turbines are not a substantial focal point or distraction.</i>
TOTAL	<i>8.5</i>	<i>Total all scores above</i>
AVERAGE	<i>1.4</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Viewpoint 69

West Branch Delaware River, Pine Street Extension Bridge

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Contrast may actually be less during leaf off seasons.

Perceived effect on scenic quality/viewer enjoyment:

The turbines are not a focal point and will not substantially affect viewer enjoyment.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No. 16050

Rating Panel Information:

Your Name *W. KAUMA*

Date *7/13/18*



Viewpoint Information:

Viewpoint Number 83

Distance to Nearest Visible Turbine: 1.69 miles

Viewpoint Location: Page Pond Road, Town of Sanford

Landscape Similarity Zone: Forest, Open Water

Viewer Type: Tourists/Recreational Users

Sensitive Site: Oquaga Creek

Viewpoint Sensitivity:

Scenic Quality (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Natural setting with no cultural influence or distraction.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>4.0</i>	<i>Significant contrast in landform toward horizon due to scale & form.</i>
Vegetation	<i>3.5</i>	<i>Strong contrast with vegetation in background</i>
Land Use	<i>4.0</i>	<i>Introduction of cultural elements & activity.</i>
Water	<i>3.5</i>	<i>Strong contrast with water elements.</i>
Sky	<i>3.5</i>	<i>Contrast is substantial under these conditions</i>
Viewer Activity	<i>3.5</i>	<i>Turbines may not meet viewer expectations.</i>
TOTAL	<i>22</i>	<i>Total all scores above</i>
AVERAGE	<i>3.7</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear weather and peak lighting conditions

Perceived effect on scenic quality/viewer enjoyment:

There may be a significant affect on viewer enjoyment from this vantage point due to significant scale and form of turbines.

Visual Impact Rating Form

Bluestone Wind Project

Towns of Sanford and Windsor, Broome County, New York

EDR Project No. 16050

Rating Panel Information:

Your Name: *W. KALINA*

Date: *7/13/18*



Viewpoint Information:

Viewpoint Number: 85

Distance to Nearest Visible Turbine: 0.4 miles

Viewpoint Location: Loomis Hill Road, Town of Sanford

Landscape Similarity Zone: Forest

Viewer Type: Local Residents

Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words)

*Wooded hillside, non-district
 and interrupted by power line in
 foreground.*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>2.5</i>	<i>Viewpoint is so close to turbine that context of landscape is difficult to determine</i>
Vegetation	<i>3.0</i>	<i>There is substantial contrast in vegetation due to form & scale of turbines</i>
Land Use	<i>3.0</i>	<i>Viewpoint is along local road, existing power lines in foreground</i>
Water	<i>0</i>	<i>NA</i>
Sky	<i>3.0</i>	<i>Contrast in color against sky, white turbine highlighted by sun light.</i>
Viewer Activity	<i>3.0</i>	<i>Viewers are local residents</i>
TOTAL	<i>14.5</i>	<i>Total all scores above</i>
AVERAGE	<i>2.4</i>	<i>Average all scores above</i>

Contrast Rating

Score Chart

- 0 Insignificant
- 5
- 1 Minimal
- 1.5
- 2 Moderate
- 2.5
- 3 Appreciable
- 3.5
- 4 Strong

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Turbine is highlighted by sunlight under clear weather and viewing conditions.

Perceived effect on scenic quality/viewer enjoyment:

Depending on viewer perspective of wind energy systems some viewers may find the closeness of the turbine interesting due to visibility of structure's details. Others may find the scale and height of the turbine compared to existing conditions substantially adverse.

Visual Impact Rating Form

Blount County, TN / Project
 Towns of Sanford and Windsor, Broome County, New York
 EDR Project No: 16050

Rating Panel Information:

Your Name: W. KALINA
 Date: 6/20/10



Viewpoint Information:

Viewpoint Number: 102
 Distance to Nearest Visible Turbine: 1.5 miles
 Viewpoint Location: Bryce Road at Marsh Pond Road, Marsh Pond State Forest, Town of Sanford
 Landscape Similarity Zone: Forest, Open Water
 Viewer Type: Local Residents, Tourists/Recreational Users
 Sensitive Site: Marsh Pond State Forest

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Under existing conditions the view is both tranquil and scenic. There is great contrast among the natural elements of sky, forest and pond. A peaceful setting.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	4.0	Strong contrast due to vertical nature of turbines with horizontal nature of landform.
Vegetation	3.5	Contrast in scale, color & texture of turbines with trees.
Land Use	3.5	Cultural elements intrude into natural landscape.
Water	3.5	Reflection draws greater attention to turbines.
Sky	3.5	Clear sky in sharp contrast with color of turbines.
Viewer Activity	3.5	Natural setting is adversely impacted.
TOTAL	21.5	Total all scores above
AVERAGE	3.6	Average all scores above

Contrast Rating Score Chart

0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 102

Bryce Road at Marsh Pond Road, Marsh Pond State Forest

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Under these lighting conditions, clear weather and time of year these may be worst case views.

Perceived effect on scenic quality/viewer enjoyment:

The effect on scenic quality is strong due to the change in landscape from completely natural elements to one that is dominated by the turbines.

Visual Impact Rating Form

Biggest Wind Project
 Towns of Sanford and Windsor, Broome County, New York
 EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*
 Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 104
 Distance to Nearest Visible Turbine: 0.5 miles
 Viewpoint Location: Bryce Road, Town of Sanford
 Landscape Similarity Zone: Forest
 Viewer Type: Local Residents
 Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)

Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Natural landscape of wooded hillside that is typical of rural settings in this part of NYS.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	<i>4.0</i>	<i>Domination of view of the turbines as the focal point</i>
Vegetation	<i>3.5</i>	<i>Strong contrast in color, texture and form</i>
Land Use	<i>3.5</i>	<i>Strong intrusion into the landscape</i>
Water	<i>0</i>	
Sky	<i>3.5</i>	<i>Strong contrast in color against blue sky.</i>
Viewer Activity	<i>2.5</i>	<i>Viewer activity is affected</i>
TOTAL	<i>17</i>	<i>Total all scores above</i>
AVERAGE	<i>2.8</i>	<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 104

Bryce Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear sky and weather conditions create worst case effects with sunlight highlighting the turbines.

Perceived effect on scenic quality/viewer enjoyment:

Scenic quality is strongly affected due to the visual dominance of the turbines in this view created by their scale in comparison to the height of the trees and sharp contrast in form and color.

Visual Impact Rating Form

Bluestone
 Towns of Sanford and Windsor, Broome County, New York
 EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALIKA*
 Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 107
 Distance to Nearest Visible Turbine: 0.97 miles
 Viewpoint Location: Mountain View Drive, Deer Lake, Town of Sanford
 Landscape Similarity Zone: Forest, Open Water
 Viewer Type: Local Residents
 Sensitive Site: Deer Lake

Viewpoint Sensitivity:

Scenic Quality: *(Please rate existing scenic quality)*

Low Moderate High

Viewer Exposure: *(Please rate frequency and duration of view)*

Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: *(Please describe this view in your own words.)*

*Typical view in the region of
 waterfront residential use. No
 dominant focal point of views.*

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.0	Substantial vertical contrast with hills, lessened somewhat by trees in foreground
Vegetation	3.0	Contrast in form and scale of trees.
Land Use	2.0	Waterfront use is present.
Water	2.0	Waterfront screened from view by structures.
Sky	3.5	Strong contrast against clear sky and shadow of turbines
Viewer Activity	3.0	Existing views will be noticeably different.
TOTAL	16.5	Total all scores above
AVERAGE	2.8	Average all scores above

Contrast Rating Score Chart

0 Insignificant
 .5
 1 Minimal
 1.5
 2 Moderate
 2.5
 3 Appreciable
 3.5
 4 Strong

Viewpoint 107

Mountain View Drive, Deer Lake

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Clear weather conditions and direction of sunlight on turbines creates shadows that highlight their contrast against the sky.

Perceived effect on scenic quality/viewer enjoyment:

Scenic quality will be substantially different introducing structures into the landscape that contrast with existing natural landscape and landform.

Visual Impact Rating Form

Windsor White Turbine

Towns of Sanford and Windsor, Broome County, New York
EDR Project No: 16050

Rating Panel Information:

Your Name: *W. KALINA*
Date: *6/20/18*



Viewpoint Information:

Viewpoint Number: 113
Distance to Nearest Visible Turbine: 4.2 miles
Viewpoint Location: Piper Hill Road, west of intersection with White Birch Lake Road, Town of Windsor
Landscape Similarity Zone: Rural Residential/Agriculture
Viewer Type: Local Residents
Sensitive Site: N/A

Viewpoint Sensitivity:

Scenic Quality: (Please rate existing scenic quality)
 Low Moderate High

Viewer Exposure: (Please rate frequency and duration of view)
 Continuous Repeated/Regular
 Occasional/Brief Rare

Viewer Description: (Please describe this view in your own words.)

Very nice rural scene with great composition in landform, farm buildings and valley development. Highly scenic rural setting dominated by picturesque hill sides.

Contrast Rating:

(Please rate the level of contrast between the proposed structures and the existing view.)

Component	Score	Description of Contrast
Landform	3.0	<i>At these distances, turbines still contrast sharply with horizon and hills</i>
Vegetation	3.0	<i>Contrast is substantial in color and form</i>
Land Use	2.0	<i>The turbines are not the only development seen in this view</i>
Water	0	
Sky	2.5	<i>Despite hazy conditions, color of turbines still highlighted by sunlight</i>
Viewer Activity	2.5	<i>Some may not see the turbines as intrusive from this distance</i>
TOTAL	13	<i>Total all scores above</i>
AVERAGE	2.2	<i>Average all scores above</i>

Contrast Rating Score Chart

0 Insignificant
.5
1 Minimal
1.5
2 Moderate
2.5
3 Appreciable
3.5
4 Strong

Viewpoint 113

Piper Hill Road, west of intersection with White Birch Lake Road

Variable factors that may have influenced rating (atmospheric conditions, season, etc.):

Hazy conditions have little effect on the turbines highlighted by sunlight. Contrast may be less during winter and under overcast conditions.

Perceived effect on scenic quality/viewer enjoyment:

Scenic quality is affected but the impact, positive or negative, may depend on a viewer's perception of the turbines that may create visual interest at these distances.

Appendix F. Visual Impact Assessment Rating Forms

Rating Panel Data

	Panel Member	Landform	Vegetation	Land Use	Water	Sky	Viewer Activity	TOTAL	AVERAGE
Viewpoint 12	JG	1	0.5	0.5	0	1	0.5	3.5	0.6
	TT	2	1	1	0	1	0.5	5.5	0.9
	WK	1.5	1.5	1	0	1.5	1.5	7	1.2
	Average	1.5	1	0.833333333	0	1.166666667	0.833333333		0.9
Viewpoint 15	JG	1.5	0.5	0.5	0	1.5	0.5	4.5	0.8
	TT	3	3	2	0	3	0.5	11.5	1.9
	WK	2	2.5	1.5	0	3	2	11	1.8
	Average	2.166666667	2	1.333333333	0	2.5	1		1.5
Viewpoint 17	JG	3	2.5	3.5	0	3	2.5	14.5	2.4
	TT	2.5	2.5	0	0	2	0.5	7.5	1.3
	WK	3	3	2	0	2	2	12	2.0
	Average	2.833333333	2.666666667	1.833333333	0	2.333333333	1.666666667		1.9
Viewpoint 22	JG	3	3	2	0	3	3	14	2.3
	TT	2	1.5	1	0	1	0	5.5	0.9
	WK	3	3	2	0	2	2	12	2.0
	Average	2.666666667	2.5	1.666666667	0	2	1.666666667		1.8
Viewpoint 39	JG	0.5	0	1	0.5	0.5	0.5	3	0.5
	TT	0.5	0.5	0.5	0.5	0.5	0	2.5	0.4
	WK	1.5	1.5	2	1	1.5	2	9.5	1.6
	Average	0.833333333	0.666666667	1.166666667	0.666666667	0.833333333	0.833333333		0.8
Viewpoint 48	JG	3.5	3.5	3	0	3	3	16	2.7
	TT	4	4	3	0	4	1.5	16.5	2.8
	WK	3	3	2.5	0	3	3.5	15	2.5
	Average	3.5	3.5	2.833333333	0	3.333333333	2.666666667		2.6
Viewpoint 55	JG	3.5	3.5	3	0	3	3	16	2.7
	TT	3.5	2	1.5	0	3	0	10	1.7
	WK	3.5	3.5	2	0	2	2	13	2.2
	Average	3.5	3	2.166666667	0	2.666666667	1.666666667		2.2
Viewpoint 58	JG	4	4	3.5	0	3.5	4	19	3.2
	TT	4	4	1.5	0	4	2	15.5	2.6
	WK	4	4	3	0	3.5	3.5	18	3.0
	Average	4	4	2.666666667	0	3.666666667	3.166666667		2.9
Viewpoint 59	JG	2.5	2	2	2.5	2.5	2.5	14	2.3
	TT	2	1	2.5	1	1	1	8.5	1.4
	WK	2	2	1.5	1	1.5	1.5	9.5	1.6
	Average	2.166666667	1.666666667	2	1.5	1.666666667	1.666666667		1.8
Viewpoint 61	JG	2.5	3	3	0	2.5	3	14	2.3
	TT	2	1.5	1.5	0	2	0	7	1.2
	WK	3	3	2.5	0	2	2.5	13	2.2
	Average	2.5	2.5	2.333333333	0	2.166666667	1.833333333		1.9
Viewpoint 64	JG	3.5	3	3	0	3.5	3	16	2.7
	TT	4	4	2	0	4	3	17	2.8
	WK	3.5	3.5	3	0	3	3.5	16.5	2.8
	Average	3.666666667	3.5	2.666666667	0	3.5	3.166666667		2.8
Viewpoint 67 (Leaf Off)	JG	2.5	3	3	3	3	2.5	17	2.8
	TT	2	1.5	2	1	1	0	7.5	1.3
	WK	3	3	2.5	2.5	1.5	2	14.5	2.4
	Average	2.5	2.5	2.5	2.166666667	1.833333333	1.5		2.2
Viewpoint 67 (Leaf On)	JG	3	3	3.5	3	3.5	3.5	19.5	3.3
	TT	2.5	2.5	3	3	2.5	2.5	16	2.7
	WK	3.5	3.5	3.5	3	2.5	2.5	18.5	3.1
	Average	3	3	3.333333333	3	2.833333333	2.833333333		3.0
Viewpoint 69	JG	2	1.5	1	0	1	0.5	6	1.0
	TT	2.5	2.5	3	0	2	2.5	12.5	2.1
	WK	2	2	1.5	0	1.5	1.5	8.5	1.4
	Average	2.166666667	2	1.833333333	0	1.5	1.5		1.5
Viewpoint 83	JG	2.5	2.5	2	0	3	2.5	12.5	2.1
	TT	3.5	3.5	4	3	3.5	3.5	21	3.5
	WK	4	3.5	4	3.5	3.5	3.5	22	3.7
	Average	3.333333333	3.166666667	3.333333333	2.166666667	3.333333333	3.166666667		3.1
Viewpoint 85	JG	4	4	3.5	0	4	3.5	19	3.2
	TT	4	4	3.5	0	4	3	18.5	3.1
	WK	2.5	3	3	0	3	3	14.5	2.4
	Average	3.5	3.666666667	3.333333333	0	3.666666667	3.166666667		2.9
	JG	3	3.5	3	3.5	3.5	3.5	20	3.3

Viewpoint 102	TT	3	3	3	3	3	1.5	16.5	2.8
	WK	4	3.5	3.5	3.5	3.5	3.5	21.5	3.6
	Average	3.333333333	3.333333333	3.166666667	3.333333333	3.333333333	2.833333333		3.2
Viewpoint 104	JG	3.5	3.5	4	0	4	3.5	18.5	3.1
	TT	4	4	3	0	4	1.5	16.5	2.8
	WK	4	3.5	3.5	0	3.5	2.5	17	2.8
	Average	3.833333333	3.666666667	3.5	0	3.833333333	2.5		2.9
Viewpoint 107	JG	3.5	3	3	1.5	3	3.5	17.5	2.9
	TT	3	3	3	0.5	3	1.5	14	2.3
	WK	3	3	2	2	3.5	3	16.5	2.8
	Average	3.166666667	3	2.666666667	1.333333333	3.166666667	2.666666667		2.7
Viewpoint 113	JG	4	3	3.5	0	3.5	3	17	2.8
	TT	1.5	1.5	0	0	1.5	0	4.5	0.8
	WK	3	3	2	0	2.5	2.5	13	2.2
	Average	2.833333333	2.5	1.833333333	0	2.5	1.833333333		1.9



Visual Impact Rating Form Instructions

Project Name: Bluestone Wind Project **EDR Project No:** 16050
Date: April 18, 2018
Reference: Visual Impact Rating Form - Instructions

These instructions are intended to guide personnel conducting visual impact assessment contrast ratings through EDR's Visual Impact Rating Form.

Viewpoint #/Viewpoint Location:

Please fill this in based on the information in the title block for each photograph/viewpoint that is provided.

Your Name/Date:

Please complete.

Landscape Similarity Zone:

The definition of landscape types found in a given study area provides a useful framework for the analysis of available visual resources and viewer circumstances. These landscape types, or Landscape Similarity Zones (LSZs), are defined based on the similarity of features such as landform, vegetation, water, and land use patterns. The LSZs within the study area include:

- Forest
- Rural Residential/Agricultural
- Village
- Open Water
- Transportation Corridor

Viewer Type:

Please infer who the mostly likely viewer(s) is/are based on the location and context of the view. Please also refer to the Viewpoint Location Map and title block for photographs. For instance, if the photo shows a residential or concentrated settlement, check *resident*. If the viewpoint is a roadway location, check *traveler*, and if the viewpoint is from an aesthetic/recreational resource, check *recreational*.

Designated Aesthetic Resources:

The visual study area includes numerous public resources and/or designated visually sensitive resources that are of potential statewide significance. These include sites or districts listed on the National Register of Historic Places, state parks, state forests, wildlife management areas, designated scenic sites, and several designated trails. The visual study area also includes several public resources that could be considered regionally or locally significant or sensitive,

due to the type or intensity of land use they receive. These include local park and recreational facilities, campgrounds, camps, town forest lands, golf courses, nature preserves, tourist attractions, fish and game clubs, schools, churches, cemeteries, areas of concentrated human settlement (i.e., Villages and hamlets), and heavily traveled highways. Please refer to the Viewpoint Location Map and title block for photographs from each viewpoint to determine whether the view is from a specific visually sensitive resource.

Viewpoint Description:

Please describe the view in your own words, focusing on the landscape components described below.

- *Landscape Composition:* The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water and sky.
- *Form, Line, Color, and Texture:* These are the four major compositional elements that define the perceived visual character of a landscape. Form refers to the shape of an object that appears unified; often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture; usually evident as the edges of shapes or masses in the landscape. Texture in this context refers to the visual surface characteristics of an object.
- *Focal Point:* Certain natural or man-made landscape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains and water features. Cultural features, such as a distinctive barn or steeple can also be focal points.
- *Order:* Natural landscapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality.
- *Atmospheric Conditions:* Clouds, precipitation, haze, and other ambient air related conditions affect the visibility of an object or objects and can greatly impact the design elements of form, line, color, texture, and scale.
- *Lighting Direction:* Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from the side of the observer to a feature or elements in a scene.
- *Visual Clutter:* Numerous unrelated built elements occurring within a view can create visual clutter, which adversely impacts scenic quality.

Viewpoint Sensitivity:

Please rate the sensitivity of each viewpoint as determined by scenic quality and viewer exposure, as follows:

Scenic Quality:

Please rate the scenic quality of the existing view according to your opinion about the quality of the existing landscape, without the project in place, for the general public. An undeveloped landscape, or one containing aesthetically important structures, might be at the high end of the scale, while a landscape already impacted by infrastructure or industrial facilities might be at the low end. Most residential areas will fall into the moderate category, unless they are either historic neighborhoods, or degraded/abandoned. Note that designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The particular characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. However, the scenic quality rating you assign depends on your individual judgment.

View Exposure:

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. Please infer the frequency and duration of views based on the Viewer Type, LSZ, viewpoint context, and viewpoint location map. Please indicate whether there is potential for continuous or repeated exposure (such as residences, village intersections, and principal transportation routes with an open view towards the project), brief or occasional exposure (such as openings in otherwise screened areas or secondary roads that most people will not use on a daily basis), or rare exposure (such as viewpoints that are clearly off the beaten track and/or represent small areas of narrow visibility in otherwise completely screened areas).

Contrast Rating:

Please rate the level of contrast that you perceive between the existing landscape components (as they appear in each in photo) and the effect that the proposed project has on those components. Please provide a numerical rating between 0 and 4 for each landscape component, where:

0 = Insignificant Contrast

1 = Minimal Contrast

2 = Moderate Contrast

3 = Appreciable Contrast

4 = Strong Contrast

* (please make use of .5 to allow for refinement or ambivalence between any of these ratings, e.g., 2.5 = Moderate to Appreciable Contrast).

Please then also describe in your own words the factors in the appearance of the photo that contribute to or affect the degree of contrast for each landscape component. Please consider the following for each landscape component:

Landform: Please consider the effect of the project relative to the appearance of the type/form of the landform, the edge of the line, the strength and range of color, the density of relief, the space as defined by the landform, and the extent of its scale.

Vegetation: Please consider the effect of the project relative to the appearance of the form(s) and variety of vegetation, the edge of its lines, the range of color, the density of texture, its space as defined by the vegetation, and its hierarchy/diversity of scale.

Appendix F. Visual Impact Assessment Rating Forms
Visual Impact Rating Form – Instructions
Bluestone Wind Project

Land Use: Please consider the effect of the project relative to the appearance of identifiable land use(s) in the view, and evaluate the degree to which the project is compatible with the appearance of existing land use(s) in the view.

Water: Please consider the effect of the project relative to the appearance of water features in terms of the form of the water body(ies), edges of its (their) lines, clarity of color, texture, which refers here to movement; for space, degree of enclosure around the feature(s); and the scale, or extent of the presence of water in the view.

Sky: Please consider the effect of the project relative to the appearance of the sky in terms of form (including the appearance of clouds), the edges of its lines (perhaps in terms of the horizon), clarity of color, texture, which here could refer cloudiness or other atmospheric conditions, the degree of openness or enclosure, and the scale, or extent of the sky in the view.

Viewer Activity: Please consider the effect of the project on the viewer's perception of the scenic quality and potential viewer enjoyment of the view, taking into account the viewpoint location and context, viewer type, and viewer exposure.

Variable factors that may have influenced rating:

Please note any conditions, based on what is visible in the photographs that may influence the degree of contrast perceived between the project and the existing conditions (e.g., atmospheric condition, season, etc.).

Perceived effect on scenic quality/viewer enjoyment:

Please summarize your evaluation of the project's overall effect on the appearance of the view, taking into account the viewpoint location and context, sensitivity of that location, scenic quality of the existing view, viewer type, and viewer exposure.

EXPERIENCE SUMMARY

Licensed Landscape Architect with over 20 years experience as a practitioner and educator. Areas of expertise include community planning, community development, identification of catalytic projects, recreation planning and design, land use planning, institutional design, grant writing and community participatory practices. Experience includes working as a consultant practitioner as well as running community based projects through studio teaching at SUNY College of Environmental Science and Forestry's Landscape Architecture Department.

EDUCATION / REGISTRATIONS

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

FOCUS AREA: COMMUNITY DESIGN AND PLANNING

Thesis: A proposal for general education focused on the built community and environment. Advisor: Cheryl S. Doble
MS Landscape Architecture, May 2007

CORNELL UNIVERSITY

BS Landscape Architecture, May 1993

UNIVERSITY OF COPENHAGEN

Semester Abroad, Denmark International Study, Fall 1992

PROFESSIONAL REGISTRATION

New York license #1768-1

North Carolina License # 910

EXPERIENCE SUMMARY

GAVITT ASSOCIATES, CAZENOVIA, NEW YORK

Established in 2004

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

Faculty 2004 - present

CAZENOVIA AREA COMMUNITY DEVELOPMENT ASSOCIATION (not for profit/volunteer)

Current President. Active board member since 2012

TRINITY ARCHITECTURE AND PLANNING, WINSTON-SALEM, NC

Partner, Landscape Architect. 1999-2001

ARCHITECTURAL DESIGN ASSOCIATES, WINSTON-SALEM, NC

Project Manager, Landscape Architect. 1997-1999

GS MILLER LANDSCAPE ARCHITECTURE, WINSTON-SALEM, NC

Landscape Architect. 1995-1997

PASHEK ASSOCIATES, PITTSBURGH, PA

Landscape Designer. 1993-1995

FALLINGWATER, MILL RUN, PA

Landscape Designer. 1993

VISUAL ASSESSMENT Provided expert visual assessment for Environmental Design Research, PC on the following projects:

Bluestone Wind Project, Broome County, NY 2018

Southfork Wind Project, NY & RI, US, 2017-2018

Galloo Island, NY, 2017

Baron Wind, NY, 2017

Timbermill Wind, NC, 2016

Clear River Energy Transmission, RI, 2016

Cassadaga Wind Project, Chautauqua County, NY, 2016

Merrimack Valley Reliability Project, NH & MA, 2015

New England East-West Solution (NEEWS), New England States, 2012

Block Island Wind Project, MA, 2011-2013

Allegany Wind Project, Cattaraugus County, NY, 2009

Rhode Island Reliability Project, RI, 2009

Howard Wind Project, Steuben county, NY 2008

NY Regional Interconnect, NY 2008

Dutch Hill Wind Project, Cohocton, NY, 2006

Timothy R. Toland, RLA, ASLA, LEED AP

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p. 315.569.1132 – e: tim.toland.landarch@gmail.com

Education

- SUNY College of Environmental Science and Forestry
Master of Landscape Architecture (Graduated May 1998)
Thesis: Contemporary Considerations for Plant Establishment in Landscape Architecture
- SUNY Cobleskill College of Agriculture and Technology
B. T. in Plant Science (Graduated January 1994, High Honors)
- SUNY Cobleskill College of Agriculture and Technology
A.A.S. in Landscape Development (Graduated May 1992, High Honors)
- Lock Haven State University of Pennsylvania
Pre-Engineering (Attended September 1988 - May 1989)

Employment

- Michael Van Valkenburgh Associates, Cambridge, MA. Senior Project Manager. 2018-Present.
- SUNY College of Environmental Science and Forestry, Syracuse, NY. Associate Professor. 2011-2018.
- Edge Effects Design, Syracuse, NY. Founder and Principal. 2006-Present.
- SUNY College of Environmental Science and Forestry, Syracuse, NY. Assistant Professor. 2005-2011.
- LandDesign, Inc., Charlotte, NC. Landscape Architect. 2002-2005.
- Knight & Stolar, Inc., Cleveland, OH Designer. 2001-2002.
- LandDesign, Inc., Alexandria, VA Designer. 1999-2001.
- SUNY College of Environmental Science and Forestry, Syracuse, NY. CAVLab Manager. 1997-1999.

Teaching

Courses Taught

- ENS/LSA 496/696 Soils, Plants and Stormwater (Spring 2013-2015)
- LSA227 Foundation Design Studio II (Spring 2008)
- LSA303/503 AutoCAD (Summer 2011-1013)
- LSA327 Landscape Architectural Design Studio II (Spring 2009)
- LSA333 Plant Materials (Fall 2011-2017)
- LSA343 Landscape Materials and Structures (Spring 2006-2016, 2018)
- LSA422 Landscape Architectural Design Studio III (Fall 2005-2008)
- LSA423 Landscape Architectural Design Studio IV (Spring 2006-2007, 2010-2014, 2018)
- LSA425 Orientation for Off-Campus Design Thesis Studio (Spring 2006, 2008-2010, 2012-2013)
- LSA433/633 Planting Design and Practice (Fall 2005-2010, 2017)
- LSA496/696 Sustainability Seminar (Fall 2007-2008)
- LSA552 Graphic Communication (Fall 2009)
- LSA458/459/460 Off-Campus Program (Summer 2006, Fall 2008, 2009-2010, 2012-2013)
- LSA601 Graduate Design Studio II (Spring 2015, 2017)
- LSA620 Graduate Design Studio III (Fall 2012, 2016)

Guest Lectures

- 2016-2017: ERE 527 Stormwater Management. Campus Green Infrastructure
LSA342/615 Green Infrastructure Calculations and Design Process
LSA455/655: What happens after the CD's are done
LSA640 Research Methods. Pilot Studies as a Research Method
LSA697 Topics and Issues of Landscape Architecture: Personal Background
- 2014-2015: ERE 527 Stormwater Management. Campus Green Infrastructure
FOR481 Introduction to Arboriculture. Trees and Construction
LSA311/611 Natural Processes. Native Plants on Campus
LSA455/655: What happens after the CD's are done
LSA552 Graphic Communication. AutoCAD Crash Course
LSA640 Research Methods. Pilot Studies as a Research Method
- 2013-2014: ERE 527 Stormwater Management. Campus Green Infrastructure
FOR481 Introduction to Arboriculture. Trees and Construction.
LSA311/611 Natural Processes. Native Plants on Campus.
LSA552 Graphic Communication. AutoCAD Crash Course
LSA601 Graduate Design Studio II. Green Roofs
LSA640 Research Methods. Pilot Studies as a Research Method.
- 2012-2013: FOR481 Introduction to Arboriculture. Trees and Construction.
LSA461 Off-Campus Final Presentation Seminar. Poster Design.
LSA552 Graphic Communication. AutoCAD Crash Course
LSA601 Graduate Design Studio II. Green Infrastructure.
LSA696 City Wild Seminar. Duisberg Nord
- 2010-2011: LSA132 Orientation Seminar. Campus Master Plan.
LSA200/500 Computing I. Presentations.
LSA552 Graphic Communication. Manual Perspective Drawing.
- 2009-2010: LSA132 Orientation Seminar. Campus Master Plan.
LSA227 Foundation Design Studio II. Rendering.
- 2008-2009: ESF109 Honors Program Seminar. Campus Master Plan.
LSA 132 LSA Orientation Seminar. Campus Master Plan.
HNR 230 Honors Seminar (Syracuse University). How Green Is It?
- 2007-2008: LSA132 Orientation Seminar. Campus Master Plan.
LSA455/655 Professional Practice in Landscape Architecture. Cost Estimating.
LSA601 Graduate Design Studio II. Construction Materials.
- 2006-2007: LSA 226 Foundation Design Studio I. Campus No-Mow Zones.
LSA 470/670 Thematic Landscape Design Studio. Campus Master Plan Workshops
LSA 496/696 Art/Science of Sustainable Design. Green Infrastructure.
LSA 620 Graduate Design Studio III. Construction Materials.
- 2005-2006: LSA342/615 Site Construction. Course Introduction
LSA455/655 Professional Practice in Landscape Architecture. Portfolios.
LSA640 Research Methods. Consuming Research
LSA697 Neo-Traditional Development.

Scholarship

Primary Research Topics

Optimizing biofiltration drainage media to target specific stormwater pollutants. Studying nutrient fluxes, stormwater management issues and impacts of vegetation on media used in green infrastructure

initiatives. Collaborating with D. Daley (SUNY-ESF Dept. of Environmental Resources Engineering) and R. Briggs (SUNY-ESF Dept. of Forest and Natural Resource Management).

Native plant communities for green roofs. Studying the use of plant species from marginal plant communities for green roof applications. Collaborating with D. Leopold (SUNY-ESF Dept. of Environmental and Forest Biology).

Soils. Seminar and student projects looking at the use and design of soils for planting, stormwater management and other initiatives. Collaborating with R. Briggs (SUNY-ESF Dept. of Forest and Natural Resource Management).

Publications: Peer Reviewed

Law, E, Diemont, S., Toland, T. 2017. *A Sustainability Comparison of Green Infrastructure Interventions Using Emery Evaluation*. **Journal of Cleaner Production**. March 2017, volume 145, pp. 374-385. 5% effort.

Understanding Urban Ecology. Ongoing. Chapter co-author (S.A.W. Diemont). In process. 50% effort

Lin, H., S.A.W. Diemont, T. Toland, D. Daley, W. Tao, D. Johnson, 2013. *Vermifiltration ecological treatment for the re-use of food waste digestate*. **Water Environment Research**. November 2013, volume 85, Number 11, pp. 2184-2193. 5% effort.

Way, T., Matthews, C., Rottle, N., and Toland, T. 2012. *Greening the campus: learning from four campus master plans*. **Planning for Higher Education**. Winter 2012. 25% effort

Toland, T.R. and S.A.W. Diemont. 2009. *Is there something better than LEED? Using emery analysis as an alternative way to evaluate sustainability*. **Proceedings of the Council of Educators in Landscape Architecture Conference**. January 14th-17th, 2009 Tucson, AZ. 50% effort

Publications: Non-Peer Reviewed

Daley, Douglas, Timothy Toland, Donald Leopold. 2014. *Design and Performance of an Intensive Green Roof System using Native Plant Communities in Upstate New York*. Water Environment Federation Technical Exhibition and Conference. Proceedings. 5% effort.

Academic Reviews

Utah State University. 2016. Promotion review (Professor of Practice).

Arborist News. 2013. Kathleen Wolf, Ph.D. *Stewardship Mapping: Understanding the Organizations that Work for Urban Greening*. Reviewed October 15, 2013.

U. of Idaho. 2012. Tenure and promotion review.

Landscape Journal. Book Review. 2008. **Soil Design Protocols for Landscape Architects and Contractors**. Timothy Craul and Phil Craul. 27:1-08

Landscape Journal. 2006. Peer review. *Soil Volume and Tree Condition in Walt Disney World Parking Lots*. Donald Kent, et. al

Presentations: Invited

SUNY Cortland. Green Days Speaker Series. April 12, 2017. *The Gateway Center: Use of Native Plants on an Intensive Green Roof*. Cortland, NY.

Finger Lakes Native Plant Society. November 16, 2016. *The Gateway Center: Use of Native Plants on an Intensive Green Roof*. Ithaca, NY.

American Society of Landscape Architects NY Upstate Chapter. Annual Meeting. July 7, 2016. *Native Plants in Bioretention – Some Thoughts*.

SyracuseCoE Annual Symposium. October 16, 2014. *Native Plants on Green Roofs: A Case Study*. Syracuse, NY

International Phytotechnology Society. October 3, 2013. *The Use of Native Plants on an Intensive Green Roof: Initial Results*. Liverpool, NY.

Habitat Gardening CNY. February 25, 2013. *The Use of Native Plants at SUNY-ESF*. Liverpool, NY.

New York State Department of Environmental Conservation. NY ReLeaf. July 19, 2013. *Tree Protection and Damage Mitigation*. Panelist. Utica, NY.

Central New York Nursery and Landscape Association Annual Meeting. February 13, 2013. *SUNY-ESF Gateway Center: Going Beyond LEED*. Skaneateles, NY.

New York State Department of Environmental Conservation Workshop. December 11, 2012. *Keeping them Alive: Thoughts on Tree Protection During Construction*. Syracuse, NY.

New York State Soil and Water Conservation Committee State Committee Meeting. July 17, 2012. *SUNY-ESF and the City of Syracuse Green Infrastructure Initiatives*. Syracuse, NY.

Cornell Cooperative Extension CommuniTree Stewards Program. May 16, 2012. *Right Plant Right Place*. Syracuse, NY.

Cornell Cooperative Extension CommuniTree Stewards Program. May 18, 2011. *Right Plant Right Place*. Syracuse, NY.

New York State Department of Transportation. *Sustaining the Green*. Webinar. March 8, 2011.

Growing Green Infrastructure. November 18, 2010. *Green Infrastructure Industry Jobs, Growth, and Needs*. Panelist. Syracuse, NY.

Growing Green Infrastructure. November 17, 2010. *Less In, Less Out*. Syracuse, NY

Growing Green Infrastructure. November 17, 2010. *Natural Plant Communities as Green Roof Templates*. Syracuse, NY

SyracuseCoE Symposium on Environmental and Energy Systems. September 26, 2010. *Native Ecosystems as Templates for Green Roof Plant Selection*. Poster. Syracuse, NY

United States Mission to the United Nations. August 9, 2010. *Sustainable Landscape Architecture*. Panelist. Geneva, Switzerland.

Central New York Nursery and Landscape Association Annual Meeting. February 11, 2009. *Designing Your Way to Sustainability*. Skaneateles, NY.

Department of Landscape Architecture Computer Graphics (CG) Forum. February 5, 2010. *Analog and Digital Presentations*. Syracuse, NY.

Association of Collegiate Schools of Architecture (ACSA) Annual Administrator's Meeting. November 8, 2008. *Design Education as a Vehicle to Creating the Sustainable Campus*. Savannah, GA.

New York Association of Physical Plant Administrators. April 8, 2008. *Assessing the Sustainable Campus Master Plan*. Syracuse, NY.

New York Association of Physical Plant Administrators. April 8, 2008. *Sustainable Campus Planning and Management Strategies: A Case Study of the SUNY-ESF Campus*. Syracuse, NY.

Men's Garden Club of Syracuse Annual Meeting. March 31, 2007. *Structures: Elevating Your Gardens*. Fayetteville, NY

Northeast Symposium on Native Plant Education, Conservation and Gardening. June 28, 2006. *Alternatives to Invasive Plants: A Designer's Approach to Selecting Native Plants in Garden Design*. Oswego BOCES.

Presentations: Non-Invited

Society for College and University Planning Annual International Conference. July 14, 2015. *Towards Campus Carbon Neutrality: SUNY-ESF Gateway Center*. Co-presenter. Chicago, Illinois.

Council of Educators in Landscape Architecture Annual Meeting. March 29, 2014. *SUNY-ESF Gateway Center Green Roof: One Year Later*. Baltimore, MD.

New York State Green Building Conference. March 27, 2014. *High Performance Building Design and Biomimicry in the Built Environment*. Co-presenter. Syracuse, NY.

American Society of Landscape Architects Annual Meeting and EXPO. November 15, 2013. *Feasibility of Native Species and Natural Communities on Green Roofs*. Co-presenter. Boston, MA.

- Council of Educators in Landscape Architecture. March 29, 2013. Annual Meeting. *Natural Plant Communities as Green Roof Templates: An Interdepartmental Pilot Study*. Austin, TX.
- New York State Green Building Conference. March 12, 2013. *Using NY's Native Plant Communities as the Basis of Design for SUNY-ESF's Gateway Building Green Roof*. Syracuse, NY.
- American Ecological Engineering Society Annual Meeting Pre-Conference Workshop. June 5, 2012. *Landscape Architectural Design: Processes, Predilections, and Priorities*. Syracuse, NY.
- Ithaca Native Plants Symposium. February 10, 2012. *Greening the SUNY-ESF Campus*. Ithaca, NY.
- Syracuse Building Green Conference. March 12, 2010. *Using Rain Gardens in Northern Climates*. Syracuse, NY.
- American Society of Landscape Architects Annual Meeting and EXPO. October 3, 2008. *Four Quads and Seven Mowers Ago: Greening the American Campus*. Co-presenter. Philadelphia, PA.
- Society for College and University Planning Annual International Conference. July 23, 2008. *How Green Is It? EMERGY Analysis and Campus Planning*. Co-presenter. Montreal, Canada.
- Ecological Landscaping. October 30, 2007. *Practicing What We Teach: SUNY-ESF Campus Master Plan*. Cleveland, OH.
- New York ASLA-Upstate Chapter Meeting. October 18, 2007. *Practicing What We Teach: SUNY-ESF Campus Master Plan*. Binghamton, NY.

Grant Activities

Applied for and/or Funded

- Toland, T. and R. Briggs. 2017-2022. *An investigation into optimizing biofiltration drainage media designed to target specific stormwater pollutants*. \$292,911. NYSERDA. Two to three graduate students supported.
- Toland, T., Daley, D., Leopold, D. 2012-2015. *SUNY-ESF Gateway Building Green Roof*, Syracuse, NY. \$413,000. NYS Environmental Facilities Corporation. Four to six graduate students and 1-2 undergraduate student supported.
- Diemont, S., Luzadis, V., Toland, T. 2013-2014. A systems approach to measuring social and technical effectiveness of green infrastructure for combined sewer overflow mitigation in Onondaga County. \$58,731. Syracuse University Environmental Finance Center. Two graduate students supported.
- Kelleher, M. and T. Toland. 2012. Matt's Brewery Site Landscape Plan. Corporate sponsor. \$10,000. Supporting one graduate student.
- Toland, T. and M. King. 2012. Newell Street Save the Rain Program: Community Design Process. Syracuse University Sponsored Programs (through SUNY Research Foundation and ESF Outreach). \$29,000. Supported studio and student volunteers.
- Toland, T. 2008. Campus Master Plan Studies. SUNY-ESF. \$20,000. Supported two graduate students and one post graduate student.
- Toland, T. 2006. Syracuse Housing Authority Master Plan Development. Center for Community Design and Research. \$4,000. Supported one graduate student.

Applied for and Unfunded

- Toland, T., D. Leopold, D. Daley. 2016. *SUNY-ESF Academic Research Building*. Environmental Facilities Corporation Green Infrastructure Grant Program. \$544,052.
- Toland, T., D. Leopold, D. Daley. 2014. *SUNY-ESF Academic Research Building*. Environmental Facilities Corporation Green Infrastructure Grant Program. \$500,000.
- Toland, T and R. Briggs. 2014. *Investigation into the use of Soil Specifications in Plant Installations*. McIntire-Stennis.

- Toland, T., D. Leopold, D. Daley. 2013. *SUNY-ESF Academic Research Building*. Environmental Facilities Corporation Green Infrastructure Grant Program. \$500,000.
- Diemont, S., T. Toland, D. Daley, M. Potteiger. 2012. *Provisioning Ecosystem Services*. McIntire-Stennis.
- Diemont, S., T. Toland, D. Daley. 2011. *Urban Forests for Provisioning Ecosystem Services in Syracuse, NY: Connection to Place, Urban Renewal and Public Health*. \$52,000. McIntire-Stennis.
- Diemont, S., T. Toland, D. Daley, M. Kelleher. 2009. *Evaluating Sustainability Requirements for Woody Biomass Electricity Generation Systems Using Emergy*. \$52,000. McIntire-Stennis.
- Toland, T. 2006. *Investigation into the Invasive Tendencies of Plants Recommended in Landscape Architectural Practice*. \$73,975. McIntire-Stennis.

Independent Projects

- Alvar/Dune Plant Community Pilot Study. 2010-2012. Study of plants from native plant communities for use on Gateway Center green roof (w/ D. Leopold, T. Ettinger and J. Johnson). Supported by donated materials from Carlisle Syntec.

Graduate Students (PhD, MS, MSLA)

Major Professor: Current Academic Year

- Frontera, Thomas. Expected graduation December 2017. MSLA Candidate. Project: Assessment of Missouri Gravel Bed technique for bare root propagation of plants for phytoremediation.
- Healey, Corinne. Expected graduation May 2017. MS Candidate. Project: Impact of clay types on bioretention media permeability and Ksat values

Committee Member: Current Academic Year

- Bell, Nicholas. Expected graduation December 2017. MSLA Candidate. Project: New Urbanism vs. Green Urbanism, tested through site planning
- Liss, Toby. Expected graduation 2020. PhD Candidate. Project: Novel plant community species and their potential use on green roofs.
- Reubens, Michael. Expected graduation December 2017. MS Candidate. Project: A microcosm study on the influence of species type on green roof hydrology.
- Scalisi, Adam. Expected graduation August 2017. MSLA Candidate. Project: Post Installation Analysis of Green Infrastructure Growing Conditions and their Effects on Planting Palette Success.

Committee Member: Previous

- Gravel, Safia. Unfinished. MSLA Candidate. Project: A Biophilic Plan for Buffalo, NY
- White, Krystal. 2015. *Hydrological Performance and Water Quality of an Intensive Green Roof During Simulated Storm Events*. MS Environmental Resources Engineering.
- Falkowski, Tomasz. 2014. *An Emergy Evaluation of Labor Transformities Based on Traditional Ecological Knowledge in Lacania Chansayab, Mexico*. MS Environmental Resources Engineering.
- Zubin-Stathopoulos, Nicholas. 2013 (December). *Heavy Metal Performance in Bioretention Stormwater: A Comparison of Five Facilities*. MSLA.
- Olinski, Adam. 2013. *From Combined Sewer Systems to Sustainable Green Infrastructure Solutions*. MSLA.
- Rayome, Donald. 2010 (December). *Emergy Evaluation of Mopan Maya Land Management Strategies for Ecosystem Restoration and Human Subsistence*. MS Environmental Resources Engineering.

Lin, Hui. 2010. *An Ecological Treatment System for the Reuse of Bio-Digested Food Waste*. MS-Environmental Resources Engineering.

Geuvara, Yasmin. 2008 (December). *Beyond Stormwater Design Considerations: When Beauty and Duty Collide*. MSLA.

Barbarash, David. 2008. *Viewer Attitudes Regarding the Communication Value of Graphic Visualizations Prepared With Differing Levels of Visual Detail*. MSLA.

Didona, Jane. 2007. *A Wet Pond Stormwater Management Practice and Beauty*. MSLA.

Continuing Growth and Conferences Attended

American Society of Landscape Architects Pennsylvania-Delaware Chapter Meeting. 2017. Wilmington, DE

Council of Educators in Landscape Architecture (CELA). 2014. Baltimore, MD.

American Society of Landscape Architects Annual Meeting and EXPO. 2013. Boston, MA.

Council of Educators in Landscape Architecture (CELA). 2013. Austin, TX.

New York Green Building Conference. 2013. Syracuse, NY.

American Society of Landscape Architects Upstate Chapter Meeting. 2013. Syracuse, NY.

Native Plants Symposium. 2012. Ithaca, NY.

Applied Green Infrastructure. 2012. Syracuse, NY.

Growing Green Infrastructure Symposium. 2010. Syracuse, NY.

American Society of Landscape Architects Annual Meeting and EXPO. 2008. Philadelphia, PA.

Council of Educators in Landscape Architecture (CELA). 2008. Tucson, AZ.

Ecological Landscaping Conference. 2007. Cleveland, OH.

Northeast Plant Symposium. 2006. Mexico, NY.

New York Association of Physical Plant Administrators. 2008. Syracuse, NY.

Society for College and University Planning. SCUP43. 2008. Montreal, Canada.

Awards and Honors

SUNY-ESF Special Recognition Award for contributions to students. 2012. Recipient.

SUNY-Cobleskill Distinguished Landscape Alumnus. 2007. Inductee.

Sigma Lamda Alpha, Nu Chapter. National Landscape Architecture Honor Society. 1996. Inductee.

Service

University Service

Activities

SUNY-ESF Gateway Center Tours. 2013-Present. Provide tours of green roof for campus conference events and visitors.

SUNY-ESF Campus Landscape Planning. 2008-Present. Resource for various projects, including edible landscape installations, quad rehabilitation and problem solving, Gateway Center landscape improvements, benches and bike racks, Pfeiffer Memorial Tree, Bray Road and parking lot Project review and comment, Gateway Center Construction Document review and comment, willow demonstration project, Lincoln statue relocation)

SUNY-ESF/NYS DEC Green Infrastructure Jobs Training Program. 2015. Participant in committee exploring program development

SUNY-ESF Strategic Planning Committee. 2015. Faculty representative on the committee addressing the sub-question: What are the relationships between humans and the environment?

- SUNY-ESF Graduate Student Colloquium on Teaching and Learning. 2015. Teaching Fellow on Research, Projects and Studios.
- SUNY-ESF Campus Interpretive Signage. 2008-2012. Text, graphic production, and layout for various campus interpretive signs for site-related sustainability initiatives.
- SUNY-ESF – UAS Osnabrück (Germany) MOU. 2013-2014. Joint MOU between universities to facilitate exchanges and charrettes.
- SUNY-ESF Campus Mapping. 2007, 2012. Map creation as requested by college administration (ARB property exchange maps, campus directional signage)
- SUNY-ESF Graduate Student Colloquium on Teaching and Learning. 2012. Teaching Fellow on Research, Projects and Studios.
- SUNY-ESF Faculty Colloquium. 2011. *Collaborations as College-wide Synergies*. Panelist. Syracuse, NY.
- SUNY-ESF Faculty Colloquium. 2010. *Maximum Impact via Teaching, Research or Service*. Panelist. Syracuse, NY.

Committees

- Forest and Natural Resource Management Faculty Search Committee. Spring 2017.
- Capital Planning Committee. 2016-Present.
- Academic Research Building Planning Committee (SUNYCF Project No. 20163). 2010-Present.
- Edible Landscape Committee. 2012-Present.
- ESF/AEC Faculty Member. 2014-Present.
- Electric Substation Replacement (SUNYCF Project No. 20228) Departmental Liaison. 2014-2015.
- Bicycle Safety Committee. 2012-2015.
- Presidential Search Committee. Spring-Fall 2013.
- Gateway Center Building Planning Committee (SUNYCF Project No. 20205). 2009-2013.
- Facilities Master Plan Committee (SUNYCF Project No. 20820). 2012.
- West Campus Streetscape Study (campus representative). 2011-2012.
- ESF Foundation Centennial Hall Steering Committee. 2009-2010.
- Combined Program Study (SUNYCF Project No. 20817). 2008-2009.
- Campus Master Plan. 2006-2008. Lead planner.
- Council for Geospatial Modeling and Analysis (departmental representative). 2006-2008.
- Campus Sitework Plan Review (SUNYCF Project No. 20200). 2008.
- Lafayette Road Arboretum Committee. 2006.
- MayFest Committee. 2006.

Defense Chair Assignments

- Slife, Caitlin. 2017. *Life Cycle Durations and Polychlorinated Biphenyl Bioaccumulation by Mysis Diluviana in New York's Finger Lakes*. MS Department of Environmental and Forest Biology.
- Igorova, Liza. 2017. *Interacting Effects of Socio-Political and Environmental Factors on Rangeland Dynamics in the Altai Mountains in Central Asia*. MS Department of Environmental and Forest Biology.
- Chen, Xin. 2015. *Integrating Climatic Response in Geographically Weighted Regression Model for Predicting the Tree Diameter Growth Across New York, USA*. MS Forest and Natural Resources Management (Monitoring, Analysis, and Modeling).

- Wild, Adam. 2014. *Soil Nutrients Affect Sweetness of Sugar Maple Sap*. MS Forest and Natural Resources Management.
- Bancroft, Kelly. 2013. *Lake Associations in Center and Northeastern Ontario: Environmental Stewardship and Sustainability*. MS Environmental Studies (Environmental Policy and Democratic Processes).
- Haas, Jonathan. 2011 (December). *The Impact of Taxation on Land Expectation Value and Sustainable Forest Management in Northern Forest States*. MS Environmental and Resource Engineering.
- Gleason, Colin. 2011. *Biomass Quantification from Airborne LiDAR Data: An Automated Method for Variable Forest Types*. MS Environmental and Resource Engineering.
- Post, Keith. MS. 2009. *Non-Target Effects of Transgenic Pathogen-Resistant American Heritage Trees on Insect Herbivores*. MS Environmental and Forest Biology.
- Chan, Alvin. MS. 2008. *Phosphorus and Other Drain Field Loads Derived from Data Collected at On-Site Wastewater Treatment Systems in the Catskill/Delaware Watershed in New York*. MS Environmental and Resource Engineering.
- Yi (Amy) Chen. 2006. *Meteorological Changes along the Rural-Urban Gradient in Eastern Puerto Rico*. MS Environmental Science.

Departmental Service

Graduate Students (MLA, MPS)

Major Professor

- Littlefield, Katherine. 2018. *Managing a Dying Ash Forest for Productivity*. MLA.
- Lomenzo, Robin. 2018. *Seawalls to Salt Marshes: Designing an Analogous Habitat*. MLA.
- Zhang, Fox. 2018. *Green Infrastructure System Design to Provide Enhanced Ecological Benefits*. MLA.
- Baker, Thomas. 2017. *Montpelier: Narratives of Ecology, Culture, and Conservation*. MLA.
- Conley, Christy. 2015. *Flood Mitigation in the Blind Brook Watershed*. MLA.
- Tinney, Catherine. 2015. *Mixed-Use Development in Owego, NY: Exploring Village Character*. MLA.
- Handelman, Emily. 2014 (December). *Into the Gorge: Designing a Multi-Level Park to Engage Rochester, New York's High Falls*. MLA.
- Liu, Li. 2014. *Convert Brown to Green: Freeway Removal and Vacancy Reduction in the Urban Landscape*. MLA.
- Liu, Qianhui. 2014. *Green Roof Techniques and Application in Syracuse*. MLA.
- Braco, Ella. 2013. *Designing a Regional Landscape That Supports Pollinators and Food Production*. MLA.
- Jiang, Zhuoming. 2013. *Designing a Beautiful and Active Winter Space on Southwest Onondaga Lake Waterfront*. MLA.
- Roth, Michelle. 2013. *Revitalizing Neighborhoods by Rehabilitating Streams: The Onondaga Creek Southside Corridor in Syracuse, NY*. MLA.
- Coombs, Sarah. 2012. *Public Art Strategies in the Urban Landscape: Rethinking Sites in Downtown Syracuse*. MLA.

- Zappola, John Josh. 2012 (December). *SIRAVilla: Spurring Revitalization of Syracuse's Lakefront Neighborhood*. MLA.
- Barhite, Kristy. 2011. *Ecological Redesign of the Donald H. Crispell Flood Control Project Area*. MLA.
- Hamilton, Charles. 2011. *Public and Private Space: Rethinking a Moroccan School*. MLA.
- Swan, Lauren. 2010. *The Role of Design in an Economically Transitional City*. MLA.
- Burck, Georgianna. 2009 (December). *Daylighting the Saw Mill River in Yonkers, NY*. MLA.
- Radicchi, Alicia. 2009 (December). *The Future of Johnson City: Planning for Change in the Urban Fabric*. MLA.
- Komm, Michael. 2009. *The Digital Landscape: A 3D Process for a 3D World*. MLA.
- Shisler, Alexander. 2009. *The Implementation of Sustainable Stormwater Management in a Syracuse, NY Neighborhood Impacted by Combined Sewer Overflows*. MLA.
- Stockmann, Melinda. 2009. *Transforming Imperviousness: A Design Retrofit for a Large Format Retail and Entertainment Complex In downtown Port Chester, Westchester County, NY*. MLA.
- McCormick, Dan. 2007. *Taking the Past into the Future. A Campus Master Plan for the Antique Boat Museum, Clayton, NY*. MLA.
- Shank, Heather. 2007. *Urbanism and Greenway Design: A New Vision for the Redevelopment of the Erie Boulevard East Corridor in Syracuse, NY*. MLA.
- Wang, Zhangshuai. 2017. *Eat Up: Green Roof Gardens for Hydroponic Food Production in Syracuse, NY*. MLA.

Committee Member

- Sealy, Todd. 2015. *Design Strategies for Climate Resilient Communities: A Master Plan for Baldwinsville, NY*. MLA.
- Cagide-Elmer, Natalia. 2014. *Edmundo Winkler: A Transformation and Extension into A Forest Park Complementary to the International Ecological Observation Center of the University of Chile (Frutillar, Chile)*. MLA.
- Cavender, Joseph. 2014. *Park Restoration Design Including Erosion Control Techniques, Wetland Trail System Design, and Recreational Facilities Design*. MPS.
- Huang, Yiwei. 2014. *A Prototypical Greenbelt for Nantong, China*. MLA.
- Meghezzi, Esma. 2014. *New-Town In-Town: Bardo Green Lung, Constantine, Algeria*. MLA.
- Shaddak, Laura. 2013. *Renewable Energy Landscapes: Integrating Renewable Energy and Energy Conservation into Common Underutilized Landscapes*. MLA.
- Firstenburg, Maria. 2012. *The Rain Garden Design Process: A Comparison of Rain Gardens in the Northeast*. MPS Environmental Science.
- Ogdhal, Nathan. 2012. *Hacienda San Antonio Silil: Casco Mater Plan*. MLA.
- Mlynarski, Maria. 2011 (December). *Redevelopment Study of the West Utica Industrial Park*. MLA.
- Rohe, Amber. 2011. *Pack Demonstration Forest: Re(vital)ization Strategies*. MLA.
- Gazzo, Timothy. 2010. *Rethink, Restore and Integrate: Design Process in Waterfront Development*. MLA.

Wang, Tsai-Chieh. 2010. *Designing Greenways Along an Urban Waterfront*. MLA.

Milunovic, Milica. 2008. *The redevelopment of Belgrade's riverfront: developing landscape design and planning solutions for ecological sustainability of Danube riparian ecosystem*. MLA.

Stenzel, Timothy. 2008. *Growing the Urban Forest: Design Strategies for a Syracuse, NY Community*. MLA.

Prange, Russell. 2007. *A Comprehensive Approach to Greenways: A Revitalization Framework for the Genesee River Community from High Falls to Lower Falls in Rochester, NY*. MLA.

Independent Studies

Conley, Christy. 2014. *Native Plant Communities for a Low-pH Green Roof*.

Wells-Burck, Georgianna. 2007. *Planting Plans*.

Wyndham, Sue. 2006. *Integrated Digital Production Techniques*.

Undergraduate Students

Independent Studies and Committees

Prieto, Victor. 2015. *Safe Routes from Campus Bike Map*

Hooker, Mitchell. 2014. *Web Interface for a GIS-Based Plant Inventory*.

Panossian, Marie. 2014-2015. *Salt contamination dynamics on the SUNY- ESF Quad* (BS capstone project, with R. Briggs)

Wells, Bradley. 2014. *Sonic Soundscapes. Sound in the built environment*.

McAbee, Oliver. 2012. *Digital Graphics*

Burt, Jim. 2011. *Guide to Sustainable Golf Course Maintenance*.

Lewis, Todd. 2010. *CAD Detailing*.

Labant, Matt. 2008. *Treated Wood. Products, uses and issues*.

Richard, Douglas. 2008. *Internship as an Alternative to Off-Campus*.

Scicutella, Vincent. 2008. *Internship Portfolios*.

Hefferon, Devon. 2006. *Portfolios*

Student Scholarship Sponsor

Baker, Thomas. 2016. Fink Career Fellowship to support internship with Andropogon Associates, LTD, in Philadelphia, PA.

Baker, Thomas. 2015. Edna Bailey Sussman Fund to support internship with Onondaga County Soil and Water Conservation District. Faculty Sponsor.

Wells, Bradley. 2014. Landscape Architecture Foundation Olmsted Scholar Program. Faculty Sponsor.

Wells, Bradley. 2014. SUNY Chancellor's Award Application. Faculty Sponsor.

Braco, Ella. 2013. Landscape Architecture Foundation Olmsted Scholar. Faculty Sponsor.

Hamilton, Charles. 2011. Landscape Architecture Foundation Olmsted Scholar Program. Faculty Sponsor.

Gazzo, Timothy. 2010. Landscape Architecture Foundation Olmsted Scholar Program. Faculty Sponsor.

Departmental Committees

Department Faculty Search Committee. Fall 2016-Spring 2017
Departmental Review Committee. Fall 2013-Present.
Undergraduate (BLA) Program Committee. 2005-Present.
Graduate (MLA) Program Committee. 2005-Present.
DLA Computing Committee. 2012-Present.
Department Chair Search Committee. Spring 2013.
Department Faculty Search Committee. Spring 2011
Marshall Hall Building Rehab Committee. Spring/Summer 2012.
Marshall Hall Lighting. 2010.
DLA Promotion and Tenure Subcommittee. 2010-2011.
Department Faculty Search Committee. Spring 2007.

Other Departmental Activities

SUNY-ESF – UAS Osnabrück (Germany) Charrette. 2016. Oakwood Beach, Staten Island, New York. Co-faculty member with 3 other faculty. Completed a week long charrette with 8 ESF students and 12 Osnabrück students. Project focused on development of revitalization master plans for an area impacted by FEMA Buyout Programs as a response to Superstorm Sandy.

CoLab Simulations. 2015. Produced 3d Model and visual simulations of building improvement project concept.

SUNY-ESF – UAS Osnabrück (Germany) Charrette. 2014. Osnabrück, Germany. Co-faculty member with 3 other faculty. Completed a week long charrette with 9 ESF students and 13 Osnabrück students. Project focused on development of revitalization master plans for the Piesburg Site, a mine/landfill near Osnabrück, Germany.

SUNY-ESF – UAS Osnabrück (Germany) Charrette. 2013. Syracuse, NY. Hosted 16 students and 2 faculty from UAS Osnabrück for a week-long charrette with LSA620 students. Project focused on Nine Mile Creek Corridor in Camillus, NY.

Center for Community Design and Research. 2009. Northside Freedom Garden. Design consultation with Cheryl Doble and supervision of student for design of benches and plantings.

Professional Activities

Credentials

Licensed Landscape Architect (New York, North Carolina and Ohio)
LEED-NC Accredited Professional

Activities

SUNY-ESF Outreach Office. 2008-Present. Review of continuing education programs for professional development credits.

Onondaga Environmental Institute Green Roof Advisory Team. 2010-2013.

Council of Tree and Landscape Appraisers (ASLA representative). 2006-2014.

ASLA Legislation Review. 2013. H.R. 2095 The Energy Conservation Through Trees Act. Review and comment on ASLA sponsored legislation.

- Onondaga Environmental Institute. 2013. Green Roof Charrette. Organized and participated in continuing education event focused on residential green roofs. Syracuse Center of Excellence. Syracuse, NY. April 11, 2013
- American Ecological Engineering Society. 2012. Annual Meeting Pre-Conference Workshop. Organized, facilitated, and participated in charrette for sites along Onondaga Creek. SUNY-ESF. Syracuse, NY. June 5-6, 2012
- U.S. Department of State. 2010. Greening the US Mission to the United Nations in Geneva, Switzerland. Faculty advisor for Department of State sponsored student design charrette for the redesign of grounds using sustainable principles. 9 US students and 3 Swiss students participated. Geneva, Switzerland. August 1-14, 2010.
- Lyon Mountain Transmission Tower Sustainability Charrette. 2007. Day-long discussion of sustainable approaches to rebuilding a large scale transmission tower. Adirondack Ecological Center. Newcomb, NY.
- NY Central Railroad Station Redevelopment Charrette. 2007. Day-long discussion of approaches to sustainable redevelopment of historic station building in downtown Syracuse. Syracuse, NY.
- Syracuse Sustainability. 2007. Invited to participate in City of Syracuse initiative with American Institute of Architects to look at sustainability initiatives as part of revitalization visioning for city.
- Clark Reservation State Park. 2006. Native Plant Garden. Lead designer of a demonstration garden for citizen group working to promote the use of native plants.

Outreach

- NY State Stormwater Regional Training Program. Spring 2017. *Wetlands*. Four sessions throughout the state.
- NY State Stormwater Regional Training Program. Spring 2016. *Getting the Most Out of Green Infrastructure*. Four sessions throughout the state.
- NY State Stormwater Regional Training Program. Spring 2015. *A Deeper Shade of Green*. Four sessions throughout the state.
- McKinley Park Revitalization Plan. Summer 2014. Supervised visiting exchange student in the development of revitalization strategies for a city park in a disadvantaged neighborhood in Syracuse, NY. Collaborated with Center for Community Design and Research.
- NY State Stormwater Regional Training Program. Spring 2014. *Making Green Infrastructure Green: Plants and Green Infrastructure*. Four sessions throughout the state.
- Syracuse University Administrators. October 30, 2008. *Green Infrastructure: Concepts, case studies and issues of using green infrastructure*.

Other Activities

- Campus Wide Presentation. Using Digital Content (Video) in the Classroom. Co-Presenter. August 22, 2016.
- Interview. Going Green. Some Roof Gardens Need Lots of Attention. <http://www.twcnews.com/nys/capital-region/going-green/2015/04/19/going-green-rooftop-gardens.html> April 20, 2015.
- Interview. WRVO News. Ellen Abbott. Record cold will help some plants, hurt others. <http://wrvo.org/post/record-cold-will-help-some-plants-hurt-others>. March 2, 2015.
- Lafayette High School (Lafayette, NY). Honors Program Presentation. An Introduction to Green Infrastructure. October 2, 2014.

Habitat Gardening of Central New York. Native Plants on Campus. Tour of gardening club of native plants used on ESF campus. May 31, 2014.

Outside reviewer. 2014. Ana Garcia. Architectural Studies Student. Hobart and William Smith College. Defense Date May 2, 2014.

New Paltz Faculty Interview and Tour. 2014. SUNY 4E grant recipients. Discussion of sustainability at ESF and tour of campus facilities. April 9, 2014.

Interview: Gateway Center Green Roof. 2014. Daily Orange. Interviewed by Leanna Kirschen of Daily Orange for an article on the green roof and the design award it received.

Lafayette High School Onondaga Lake Project. 2013. Provided answers to technical questions via email for a high school project.

Science Research Program at Union Endicott High School. 2012-2014. External contact for student performing research on green roofs.

Armory Square Association. 2011-2013. Provided redevelopment concepts, draft planting plan, and final planting plan review for park in heart of Armory Square, Syracuse, NY (with George Curry).

Interview. Going Green: Green Parking Lot. 2010. Interviewed for video segment on Bray Hall Parking lot rain garden and other stormwater management initiatives.
<http://centralny.ynn.com/content/523108/going-green--new-parking-lot-designed-to-prevent-erosion/>. Originally broadcast November 7, 2010.

Interview. Garden Journeys: Green Roof Plants. 2010. Interviewed for a video segment on green roof plant study being performed by Toland, Leopold, Ettinger and Johnson.
<http://centralny.ynn.com/content/518182/garden-journeys--green-roof/>. Originally broadcast September 21, 2010.

Interview. Going Green-Green Infrastructure. 2010. Interviewed for video segment on Bray Hall Parking lot green infrastructure initiatives. Originally broadcast April 5, 2010.

Morning View Subdivision Review. 2010. Review of green-infrastructure components for proposed subdivision in Syracuse's Outer Comstock neighborhood.

Onondaga Hill Mudslide Site. 2010. Consulted private property owner with Neil Murphy to provide recommendations for the cost effective stabilization of a site impacted by steep slopes failing due to excessive erosion.

Interview. Orange Television Network. 2009. Newhouse School of TV Journalism. Interviewed for student news program piece on sustainability aspects of the City of Syracuse's municipal Christmas tree. Stephanie Berzinski and Mike Hardman,

Getting Green. 2009. The Daily Orange. Interviewed for article on ESF campus sustainability plans. Stephen Dockery.

Interview. *Aiming for Energy Equilibrium*. 2009. NY Teacher. Interviewed for article on SUNY-ESF Sustainability planning. Darryl McGrath.

West Genesee High School Design Technology Review. 2009. Invited to review curriculum plans for WGHS Career and Technical Education strand.

Interview. *Nature's Kaleidoscope*. 2009. Post Standard. Oct. 18, 2009:

Interview. *Lady Bird and the Highway Beautiful*. 2007. Post Standard. July 13, 2007

| **Awards and Honors**

ASLA-NY Upstate Chapter. Practitioner (Academic) of the Year. 2014. Awarded at ASLA Upstate Annual Meeting. January 23, 2015.

American Society of Landscape Architects Outstanding Service Award. 2013. Awarded at ASLA Annual Meeting and EXPO (Boston). November 17, 2013.



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Senior Project Manager



Walt is a Senior Project Manager for Planning and Environmental Services at EDR. He is a Certified Planner with more than 35 years of professional consulting experience in land use planning, environmental permitting, and regulatory compliance projects. He has Master's degrees in Landscape Architecture from SUNY College of Environmental Science and Forestry and Public Administration from Syracuse University's Maxwell School of Citizenship, and is a member of the American Planning Association, Upstate New York Chapter and American Institute of Certified Planners. Walt's project experience and areas of expertise include land use studies and comprehensive plans, drafting zoning regulations and local ordinances, site design, New York State Environmental Quality Review Act (SEQRA) and National Environmental Policy Act (NEPA) environmental impact statements and mitigation planning, public participation, and grant writing.

As a Senior Project Manager with EDR, Walt is responsible for managing technical research, writing and report layout for planning reports and documents (i.e., comprehensive plans, local waterfront revitalization plans, agriculture enhancement plans, zoning regulation revisions, SEQRA compliance, grant writing, design guidelines, etc.); Coordinates and leads project-related community outreach meetings/events; Evolving information of municipal land use regulations and zoning codes, as well as New York State specific planning programs, such as the Local Waterfront Revitalization Program and Brownfield Opportunity Area program.

education

Syracuse University, Maxwell School of Citizenship, *Masters of Arts in Public Administration*, 1998.

State University of New York, School of Landscape Architecture, *Masters of Landscape Architecture*, 1998.

Syracuse University, College of Arts & Sciences, *Bachelor of Arts in Geography & Urban Planning*, 1980.

registration / certifications

Certified Planner, American Institute of Certified Planners.

professional affiliations

Member, American Planning Association.

Member, American Institute of Certified Planners.

project experience

Downtown Revitalization Initiative (DRI), City of Jamestown, NY – Served as Project Manager and Lead Planner responsible for preparing sections of DRI Final Report on Priority Projects in coordination with the City's Local Planning Committee for submittal to New York State as part of \$10 million downtown revitalization grant awarded to the City.

Montgomery County Agricultural and Farmland Protection Plan Update, Montgomery County, NY – Project manager and lead planner in preparing the Agricultural and Farmland Protection Plan that identified key issues facing agriculture in the community, recommended strategies for capitalizing on advantages and overcoming barriers, and advanced the viability of farming as an enterprise and a way of life on behalf of Montgomery County. The purpose of the planning for agriculture is to maintain the quality and accessibility of the sector's primary natural and economic resources.

employment history

Senior Planner, Environmental Design & Research, Landscape Architecture and Engineering, P.C., Syracuse & Rochester, NY; May 2016-Present.

Associate Vice President, Principal Planner VI (2015-2016), Section Group Manager (2011-2014), Principal Planner, Associate, Manager of Planning & Ecology Group (2004-2010), Senior Planner (2001-2003); CHA Consulting, Inc., Syracuse, New York, 2001-2016

Manager of Design, Principal Planner; McKenna Associates; Novi, Michigan; 1998-2001.

Environmental Resource Analyst; Environmental Design & Research, P.C., Syracuse & Rochester, NY, 1993-1984.

Associate Environmental Scientist & Land Use Planner; Terrestrial Environmental Specialists, Phoenix, NY; 1981-1983.



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Interstate 81 (I-81) Viaduct Project, City of Syracuse, Onondaga County, NY – Prepared Visual Impact Assessment Report and Visual Impact section of Draft Environmental Impact Statement in compliance with Federal Highway Administration requirements for New York State Department of Transportation (NYSDOT) PIN 3501.60, D031085 – the replacement of approximately 5 miles of elevated highways.

Town of Henrietta Multiple Dwellings Study, Town of Henrietta, NY - Project Manager and Lead Planner providing planning expertise related to an in-depth review and analysis of existing land use plans and regulations, and possible zoning amendments related to multiple dwellings and other land uses within the Town of Henrietta.

Copenhagen Wind Project, Lewis County, NY – Prepared a NEPA Environmental Assessment and project QA/QC of Environmental Assessment Report on behalf of the U.S. Fish and Wildlife Service (USFWS), highlighting the impacts on federal threatened and endangered species for a proposed 47-turbine, approximately 79 MW wind energy project.

Broome County Coporate Park, Town of Conklin, Broome County, NY – Prepared QA/QC of environmental permitting reports in support of the final design and Stormwater Pollution Prevention Plan (SWPPP) for a proposed 900,000 square foot warehouse located in the Broome County Coporate Park. Also responsible for project coordination between multiple consultants.

Zoning Ordinance Revisions, City of Auburn, NY – Prepared sections of the City of Auburn Downtown Form-Based Zoning Code for a proposed 562-acre Downtown/Owasco River Corridor BOA area characterized by at least 13 identified brownfield sites totaling 60 acres, and numerous other vacant and/or underutilized sites, many of which are suspected of contamination. The objectives of this project includes developing a market-driven, economically feasible plan for riverfront and downtown redevelopment; encouraging cleanup and return of brownfield, vacant and underutilized sites to productive economic and social use; and implementing key strategies needed to support more immediate area-wide redevelopment activities.

National Veterans Resource Complex (NVRC), Syracuse University, Onondaga County, NY – Provided SEQRA compliance services and served as a technical resource to the Syracuse University Campus Design and Planning Department, including preparation of Environmental Assessment Form and coordination on project permitting for the proposed demolition of Hoople Hall, and the constructing of the NVRC.

Onondaga County Industrial Development Agency (OCIDA) / White Pine Commerce Park, Town of Clay, NY – *Prior to EDR*, provided various support services to the OCIDA Board and County Economic Development staff for the White Pine Commerce Park (formerly known as the Clay Business Park). Services were related to designating the 350-acre undeveloped site as “shovel-ready” under NYS Empire State Development criteria. The project required identification of preliminary site design criteria, site layout and identification of buildable areas, and identification of environmentally sensitive areas as constraints to development. The project required a variety of technical studies related to traffic and transportation, wastewater treatment, wetlands and floodplains, and capacity of existing and proposed support infrastructure. NY SEQRA compliance documentation was prepared identifying potential environmental impacts and mitigation measures. These included a Draft Generic EIS, Final Generic EIS, and SEQRA Findings Statement. The project required conducting public hearings, agency involvement and public participation meetings. (2009-2014)

Onondaga County Department of Transportation (OCDOT), NY – *Prior to EDR*, provided various support services to the OCDOT including environmental screenings of existing conditions along the West Genesee Street, Velasko Road, and Syracuse-Dewitt Road corridors as part of project plans for roadway reconstruction and pedestrian upgrades and improvements. Also prepared draft sections of a feasibility study and NYSDOT Design Approval Document for NEPA and SEQRA compliance for the Onondaga Lake Canalway Trail (West Shore Trail) Extension project along the west shore of Onondaga Lake. The trail project is part of the overall waterfront revitalization of the west shore of the lake in the Town of Geddes and City of Syracuse. (2011-2016)

NYS Thruway Authority – *Prior to EDR*, assisted the NYSTA with SEQRA compliance documentation and agency coordination for the proposed construction of six wind turbines at several Thruway interchanges in western New York State. (2011-2012)

Seneca Meadows Inc. / IESI / Progressive Waste Solutions, Seneca County, NY – *Prior to EDR*, provided various planning and SEQRA compliance services for the Seneca Meadows Landfill facility in Seneca County including drafting sections of Part 360 landfill permit applications, conducting an alternative landfill site analyses, land use studies of adjacent areas, and SEQRA compliance documents including environmental impact statements for landfill-related projects. Recent studies were associated with development of a proposed rail facility and materials transfer point to receive municipal solid waste and landfill construction materials transported to the landfill via rail in an effort to reduce landfill truck traffic through neighboring communities. (2005-2016)

City of Syracuse, Onondaga County, NY – *Prior to EDR*, managed various projects related to the Syracuse Comprehensive Plan 2025 including land use TNT neighborhood studies, design guideline recommendations for four neighborhood commercial corridors, proposed revisions to the City's Stormwater Ordinance and Tree Ordinance as part of Onondaga County's Save the Rain Program. (2006-2010)



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Central New York Raceway Park, Town of Hastings, Oswego County, NY - *Prior to EDR*, served as Principal Planner and primary author of SEQRA environmental review documents for the new park proposed for construction of a 150-acre site in the Town of Hastings, Oswego County, NY. The project received considerable funding from New York State through the Regional Economic Development Council to develop the project. The project includes a state-of-the-art multi-use motorsports racing facility along a 2.2-mile road course, grandstand seating, a one-half mile oval track, viewing areas and restaurants. SEQRA documentation for the project required the preparation of the project's Draft and Final Environmental Impact Statements (DEIS and FEIS) and draft SEQRA Findings Statement submitted to the Town as Lead Agency. (2012-2016)

CH2M Hill, Inc. - *Prior to EDR*, as a sub-consultant to CH2M Hill, provided SEQRA compliance assistance associated with the EPA's required construction of water treatment UVA disinfection facilities at City of Syracuse reservoirs and related projects. Also worked with the City of Syracuse and Onondaga County on drafting amendments to the City's stormwater management and tree ordinances as part of the County's efforts to reduce the adverse effects of the City's combined sewer system on the water quality of Onondaga Lake in compliance with the EPA's federal consent orders for lake clean-up. (2008-2013)

Norfolk Southern Railroad Corporation, Antrim Township, Franklin County, PA - *Prior to EDR*, prepared sections of NEPA environmental assessment documents for a new intermodal rail facility in Antrim Township, Franklin County PA and significant expansion of an existing intermodal rail facility in Harrisburg PA. The projects required extensive coordination with federal and state permitting agencies, public outreach, project scoping, and detailed technical studies to investigate potential impacts to traffic and transportation, environmentally sensitive resources, cultural resources, land use, air quality, noise and socioeconomics consistent with NEPA and PennDOT requirements. (2009-2011)

Town of Cortlandville, Cortland County, NY - *Prior to EDR*, served as the Principal Planner for the Town from 2001-2016. Provided a variety of planning services including preparation of the Town's Land Use and Aquifer Protection Plan, drafting of the Town wellhead protection ordinance, updates to the Town's zoning ordinance and zoning map, incorporation of design guidelines and standards into the zoning ordinance, drafting future land use plan updates, grant writing and drafting sections of the Town Farmland Protection Plan. Also provided assistance to the Town Board and Planning Board with site plan reviews and SEQRA compliance projects for both private sector development projects in the Town and municipal capital improvement projects.

Niagara County Center for Economic Development, NY - *Prior to EDR*, served as Project Manager and Lead Planner for preparation of the County's first Comprehensive Plan that encompassed 19 municipalities throughout the County. The project required extensive GIS overlay mapping and analysis using *CommunityViz* to identify preferred growth areas based on Smart Growth principles. A citizen's guide to services provided by the County was also prepared as part of the project. (2007-2010)

Town of Groveland, Livingston County, NY - *Prior to EDR*, prepared the Town's Agriculture and Farmland Protection Plan through a grant from New York State Department of Agriculture & Markets. Prepared the Town's Future Land Use Plan and assisted the Planning Board with an update of its zoning ordinance and Right-to-Farm law. The projects required public participation and public hearings. (2010-2014)

Town of Rush, Monroe County, NY - *Prior to EDR*, provided site plan and project SEQRA review assistance to the Town Board and Planning Board. Prepared the Town's Agriculture and Farmland Protection Plan through a grant from the New York State Department of Agriculture & Markets. Prepared updates of land use information and GIS map sections of the Town's Comprehensive Plan. (2010-2016)

Village of Liverpool, Onondaga County, NY - *Prior to EDR*, served as the Principal Planner for the Village from 2004-2015. Provided planning services included preparation of the Village Comprehensive Plan, zoning ordinance amendments, downtown redevelopment plan, design and development guidelines, parking studies, SEQRA compliance projects for municipal actions and site plan reviews for private sector development proposals.

Village of Elbridge, Onondaga County, NY - *Prior to EDR*, served as the Principal Planner for the Village from 2001-2016. Provided ongoing planning services to the Mayor, Village Board and Planning Board including preparation of the Village's Main St. Corridor comprehensive plan in 2003 and draft update in 2015. The Plan provides zoning and development recommendations for future land use in the Village including the Main Street Corridor that is listed on the National Register of Historic Places. Additional services included grant writing, recommendations for zoning updates, and site plan/SEQRA reviews for proposed developments in the Village.

Montgomery County Industrial Development Agency, Town of Florida, NY - *Prior to EDR*, served as Principal Planner assisting the County IDA with SEQRA compliance for the new BeechNut/Hero world headquarters located in the Town of Florida Business Park.

Montgomery County Industrial Development Agency, Town of Florida, NY - *Prior to EDR*, provided SEQRA assistance to the Montgomery County IDA as part of the environmental review of the relocation of the Hero-Beechnut world headquarters and food processing plant to the Town of Florida Business



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Park in Montgomery County. The environmental review of the project required a Supplemental EIS for the project that identified the potential for environmental impacts to on-site natural resources and mitigation measures required prior to project construction. (2007-2008)

National Park Service, Women's Rights National Historic Park, Town of Seneca Falls, Seneca County, NY – *Prior to EDR*, provided assistance to the on-site staff of EYP Architecture & Engineering, and representatives of the National Park Services at the Park for the proposed restoration and historic preservation of the Wesleyan Chapel at the Park. The project included extensive public outreach, information collection, and agency coordination under NEPA. (2005-2007)

New York Power Authority – *Prior to EDR*, provided preliminary SEQRA compliance assistance to the NYPA as part of the proposed installation of replacement submarine cables across Lake Champlain between the Town of Plattsburgh in New York and the State of Vermont. (2014-2016)

Town of Hartwick, Otsego County, NY – *Prior to EDR*, prepared the Town's first comprehensive plan including recommendations on future land use and strategies for a host of neighborhood planning issues including business development, open space protection and the adoption of formal zoning regulations. (2009-2010)

Town of Salina, Onondaga County, NY – *Prior to EDR*, provided various planning services to the Town Board, Planning Board and Code Enforcement Officer including site plan reviews, SEQRA compliance reviews, preparation of zoning code amendments, drafting design guidelines for the Buckley Road corridor, and revitalization recommendations for the Mattydale neighborhood. (2005-2011)

Borough of Riverdale, Morris County, NJ – *Prior to EDR*, served as Principal Planner assisting the Borough in preparing an extensive update to its comprehensive master plan focusing on several future land use projects including re-use of quarry lands for civic purposes as a possible civic center with municipal offices, recreational facilities and areas set aside for private sector development for hotels, etc. Based on community input the plan also focused on redevelopment of two significant highway corridors into mixed use areas with increased residential development and commercial/office uses. (2006-2007)

Town of Geddes, Onondaga County, NY – *Prior to EDR*, provided assistance in preparing the State Fair Boulevard Corridor Study focusing on the Lakeland neighborhood, its land use and transportation needs and strategies for the corridor's revitalization. (2002-2003)

Town of Webb, Herkimer County, NY – *Prior to EDR*, provided planning services and preliminary site design to a private development firm for a large-scale mixed-use development project near Old Forge in the Town of Webb within the Adirondack Park. The project involved several hundred acres of relatively undeveloped property and proposed a mixed residential and commercial development project. The preliminary site design consisted of identified clustered development and conservation areas by types of use. The project called for areas set aside for natural resource protection and open space, and recreational areas with interconnected trail systems between developed areas. (2004-2006)

Syracuse Industrial Development Agency, Onondaga County, NY – *Prior to EDR*, worked with the Syracuse IDA and Department of Community and Economic Development and a private sector developer for the proposed large-scale redevelopment of the 300 block of South Salina St. in Downtown Syracuse. (2003-2004)

Oneida Nation Enterprises, Oneida & Madison Counties, NY – *Prior to EDR*, provided assistance to the Nation's legal counsel in preparing the land use sections of the Nation's first Long Range Transportation Plan consistent with Bureau of Indian Affairs LRTP requirements. (2014-2015)

Onondaga County Department of Parks, NY – *Prior to EDR*, provided various support services to the Parks Department including a preliminary investigation and needs assessment of improvements to the County's Veteran's Cemetery in the Town of Onondaga. Also prepared sections of a significant TIGER grant application in 2015 for funding the completion of the Loop-the-Lake trail system along Onondaga Lake. (2012-2016)

CNY Regional Planning & Development Board, Onondaga County, NY – *Prior to EDR*, assisted with the identification and strategies for dealing with various planning and permitting issues as part of the conceptual site master plan development and initial feasibility study of the Central NY Intermodal Freight and Inland Port Initiative in the Town of Manlius. (2012-2013)

NYS Canal Corporation – *Prior to EDR*, prepared sections of an inventory of non-recreational uses and analysis of the economic impact of non-tourism uses of the entire 535-mile long NYS Canal System including the Erie, Champlain, Cayuga-Seneca, and Oswego canals. The study identified non-recreational and non-tourism uses along the Canal System and modeled the economic value and contribution of those uses to the State and regional economies. Also drafted sections of the Canalway 2025 update and supplement to the 1999 Canal Recreation-way Plan that set goals, objectives and



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specific projects for the Canal Corporation and other Canal stakeholders for the next ten-year period that encompasses the Bicentennial of the Erie Canal. The project required significant stakeholder participation and public outreach as input to the planning process. (2013-2016)

Operation Oswego County, NY – Prior to EDR, prepared a comprehensive site profile for an undeveloped parcel of County property at the Oswego County Airport Industrial Park to determine the feasibility of developing the site for industrial and/or commercial uses. The project included conceptual site layout, identification of site development constraints and opportunities and preparation of a marketing profile for the property. (2007-2008)

Broome County Department of Planning & Economic Development, NY – Prior to EDR, assisted the Planning Department with funding application and the Nomination Study of the Endicott-Johnson Industrial Spine BOA under New York State's Brownfield Opportunity Area Program. (2007-2008)

Monroe County Department of Environmental Services, NY – Prior to EDR, prepared a preliminary economic assessment of a proposed new NYS Thruway (I-90) interchange (46A) in Monroe County. The assessment considered the economic effects, land use issues and development potential of the interchange area on the Town of Chili and surrounding communities. Issues included the potential conversion of farmland to non-farm uses, the land use needs and existing zoning of adjacent communities and the amount of vacant lands that could be built-out for industrial and commercial uses. (2001-2002)

Tioga County Industrial Development Agency, NY – Prior to EDR, assisted the IDA with site design issues and SEQRA compliance for the proposed Best Buy Distribution Center in the Town of Nichols. The project included significant studies of the potential environmental impact of the proposed 1 million square foot distribution and warehouse facility on local communities and the region. Issues included significant increases in truck traffic, stormwater management and wastewater treatment that required the construction of a new wastewater treatment plant in the Town of Nichols. (2001-2003)

Woodbine Group, Town of Dewitt, Onondaga County, NY – Prior to EDR, provided project SEQRA compliance documentation and site planning assistance to the Woodbine Group for the industrial subdivision of its business park property in the Town of Dewitt in meeting specific tenant requirements for a Fed X freight facility. (2007-2009)

Town of Richfield, Otsego County, NY – Prior to EDR, provided SEQRA assistance to the Town of Richfield Planning Board as part of its review of the proposed Monticello Hills Windfarm along NYS Route 20 in the Town of Richfield. (2011-2013)

Town of Madison, Madison County, NY – Prior to EDR, provided site plan and SEQRA environmental review services to the Madison Town Board and Planning Board for a proposed large-scale windfarm in the Town. Also provided project review of the Madison Marketplace project along NYS Route 12B in the Town. (2011-2012)

Village of Sidney, Delaware County, NY – Prior to EDR, assisted the Village engineer with various projects including SEQRA environmental reviews of both private and public sector projects, a pre-development funding study under the Restore New York program for a mixed use housing study, and flood recovery projects. (2008-2012)

City of Auburn, Cayuga County, NY – Prior to EDR, assisted the City Planning Department to seek funding under the EPA Brownfield Assessment Grant Program, preparation of sections of the Owasco River Corridor Greenway Study, and NEPA/SEQRA compliance sections of the NYS Department of Transportation Design Approval Document for the Owasco River Trail. (2011-2014)

Town of Lockport, Niagara County, NY – Prior to EDR, assisted the Town of Lockport with SEQRA environmental review of the Town's proposed Lockport Ice Arena and Sports Center. (2009-2010)