



**Draft Environmental Impact Statement  
for the Ripley-Westfield Wind Farm**

**Volume I  
Chautauqua County, New York  
February 2010**

**Submitted to:  
Town of Ripley and Town of Westfield  
Submitted by:  
Ripley-Westfield Wind, LLC**

**Draft Environmental Impact  
Statement for the  
Ripley-Westfield Wind Farm  
Chautauqua County, New York**

**Volume I**

**February 2010**

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## List of Abbreviations and Acronyms

AA	adjacent area
AADT	average annual daily traffic
AC	alternating current
agl	above ground level
AM	amplitude modulation
AMSL	above mean sea level
APE	area of potential effect
ATV	all-terrain vehicle
BBA	Breeding Bird Atlas
BBRA	Bird and Bat Risk Assessment
BGS	below ground surface
BMP	best management practice
BOA	Brownfield Opportunity Area Program
BTS	bulk transmission system
BWEC	Bats and Wind Energy Cooperative
CAA	Clean Air Act
calls/dn	calls per detector night
CBC	Christmas Bird Count
CCIDA	Chautauqua County Industrial Development Agency
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CR	county road
CWP	Chautauqua Wind Power
°F	degrees Fahrenheit
dBA	A-weighted decibel level
dBC	C-weighted decibel level
DEIS	Draft Environmental Impact Statement
DHS	(United States) Department of Homeland Security
DNH	determination of no hazard

## List of Abbreviations and Acronyms (cont.)

DOD	(United States) Department of Defense
DPF	Department of Public Facilities
DTV	digital television
E & E	Ecology and Environment, Inc.
EAF	Environmental Assessment Form
ECL	Environmental Conservation Law
ECS	electrical collection system
EIS	Environmental Impact Statement
EM	environmental monitor
EMF	electromagnetic field
EMI	electromagnetic interference
EMP	Environmental Monitoring Plan
EPA	(United States) Environmental Protection Agency
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FERC	Federal Energy Regulatory Commission
FM	frequency modulation
GAO	Government Accountability Office
GE	General Electric
GPS	global positioning system
HDD	horizontal directional drilling
HMANA	Hawk Migration Association of North America
HUC	hydrologic unit code
IBA	important bird area
IDA	Industrial Development Agency
IEC	International Electrotechnical Commission
IRAC	Interdepartment Radio Advisory Committee
ISCP	Invasive Species Control Plan
JAP	Joint Application for Permit
JEDI	Job and Economic Development Impact
kHz	kiloHertz
km	kilometers

## List of Abbreviations and Acronyms (cont.)

km/hr	kilometers per hour
kV	kilovolt
kW	kilowatt
kWh	kilowatt hour
Leq	equivalent sound level
LMR	land mobile radio
m/s	meters per second
MDS	map documented structures
MOA	memorandum of agreement
MW	megawatt
MWh	megawatt-hour
NAAQS	National Ambient Air Quality Standards
NEC	National Electric Code
NEES	North East Ecological Services
NFPA	National Fire Protection Agency
NHP	(New York State) Natural Heritage Program
NHPA	National Historic Preservation Act
NLCD	National Land Cover Database
NOI	Notice of Intent
NO <sub>x</sub>	nitrogen oxides
NO <sub>2</sub>	nitrogen dioxide
NREL	National Renewable Energy Laboratory
NRHP	National Register of Historic Places
NRCS	National Resource Conservation Service
NRE	National Register Eligible
NRL	National Register Listed
NTIA	National Telecommunications and Information Administration
NWCC	National Wind Coordinating Collaborative
NWI	National Wetland Inventory
NWS	National Weather Service
NYCRR	New York Code of Rules and Regulations
NYISO	New York Independent System Operator
NYPA	New York Power Authority

## List of Abbreviations and Acronyms (cont.)

NYS	New York State
NYSDAM	New York State Department of Agriculture and Markets
NYSEDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
NYSERDA	New York State Energy Research and Development Authority
NYSHPO	New York State Historic Preservation Office
NYSORP	New York State Office of Real Property Services
O <sub>3</sub>	ozone
OSHA	Occupational Safety and Health Administration
OS/OW	oversize/overweight
O&M	operation and maintenance
Panamerican	Panamerican Consultants, Inc.
Pb	lead
PCS	personal communication system
pCi/L	picoCuries per liter
PILOT	payments in lieu of taxes
PM <sub>10</sub>	particulate matter of 10 microns or less
PM <sub>2.5</sub>	particulate matter of 2.5 microns or less
PSC	Public Service Commission
PFO	Palustrine Forested Broad-leaved Deciduous
PSS	Palustrine Shrub/Scrub
PEM	Palustrine Emergent
POW	Palustrine Open Water
ppm	parts per million
REC	Renewable Energy Certificate
REPP	Renewable Energy Policy Project
RHQ	Ripley Hawk Watch
ROW	right-of-way
RPS	Renewable Portfolio Standard
RSZ	rotor swept zone
S/NRHP	State and National Registers of Historic Places
Saratoga	Saratoga Associates, Landscape Architects, Engineers, and Planners, P.C.

## List of Abbreviations and Acronyms (cont.)

SCADA	Supervisory Control and Data Acquisition
SEQRA	New York State Environmental Quality Review Act
SO <sub>2</sub>	sulfur dioxide
SPCC	Spill Prevention, Control, and Countermeasures
SPDES	State Pollutant Discharge Elimination System
SPL	sound pressure level
SSURGO	Soil Survey Geographic
SUNY	State University of New York
SWPPP	Storm Water Pollution Prevention Plan
TRC	Tradable Renewable Certificates
TV	television
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDOE	United States Department of Energy
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VRA	Visual Resources Assessment
W	watt
WCFZ	Worst Case Fresnel Zone
WECS	Wind Energy Conversion Systems
WMA	wildlife management area
WNS	white nose syndrome
WOA	Waterfront Opportunity Area
WTG	wind turbine generator
ZVI	zone of visual influence