



WHAT WE'RE DOING

Introduction:
Developing and Building Wind Power Projects

Twin Groves Wind Farm (Formerly Arrowsmith), Illinois

Lone Star Wind Farm, Texas

Blue Canyon Wind Farm, Oklahoma

Pine Tree Wind Power Project, California

Wild Horse Wind Power Project, Washington

Kittitas Valley Wind Power Project, Washington

Elkhorn Wind Power Project

Blackstone Wind Farm, Illinois

Cloud County Wind Farm, Kansas

New York Wind Power Development

Cattaraugus County:
Ashford Wind Power Project

Machias/Yorkshire Wind Power Project

Clinton County:

Marble River Wind Farm

Erie County:

North Collins Wind Farm

Sardinia Wind Power Project

NORTH COLLINS WIND FARM



Located about 4 miles from Springville, NY, and 23 miles south of Buffalo, the North Collins Wind Farm land consists of forest habitat and rolling farmland, mainly used for dairy cattle grazing and associated hay and corn crops. The Cattaraugus Creek flows 2-3 miles to the south of the project area. The site was selected because it is more than 1300 ft. above sea level, east of Lake Erie, thereby catching the first winds off the lake. Because of the presence of open farmland, turbines sited along this high area will effectively harness the predominantly western winds.

Horizon Wind Energy plans to install up to 13 turbines over approximately 1500 acres of land leased from landowners. The wind farm is expected to remove no more than about 6-7 acres of land from crop production.

Project Facts and Figures

Anticipated Construction Date: 2009-2010.

Construction Time Frame: 6-8 months.

Project Size: 19.5-21.45 megawatts.

Lewis County:**Maple Ridge Wind Farm****Visual Simulations****Transmission Line Information****Wyoming County:****Dairy Hills Wind Farm****Draft Environmental Impact Statement****Other Markets****Avian and Bat Studies**

Number of Turbines: Approximately thirteen 1.5 MW turbines.

Number of Houses Served: 6000 New York homes.

Transmission Interconnect: 34.5 kV line from Langford to North Ashford.

Benefits for North Collins

Each megawatt of wind energy project constructed in North Collins represents roughly \$1 million of capital investment that translates to a significant increase in the town's tax base. Such a large capital investment will also lead to potential construction contracts for area businesses. Additionally, rent payments to landowners hosting turbines will help secure the future of working farms, open spaces, and forest areas by providing a new annual income stream that is compatible with existing productive land uses.

Environmental Benefits

Based on average EPA-reported 2002 New York emissions rates, a 19.5-megawatt wind farm would displace annually:

- 31.81 tons of NO_x
- 90.18 tons of SO₂
- 21,374.60 tons of CO₂

Proposed Studies

Environmental Studies: Horizon will employ consultants to develop, implement, and analyze field studies for both migratory and non-migratory bird species to determine what, if any, avian impacts the wind farm will have. Preliminary studies indicate that the wind farm does not pose any threats to birds or other animals. Other preliminary studies also indicate that the local ecological communities are unlikely to support rare plants or listed endangered wildlife species. State Environmental Quality Review (SEQR) will begin in 2007.



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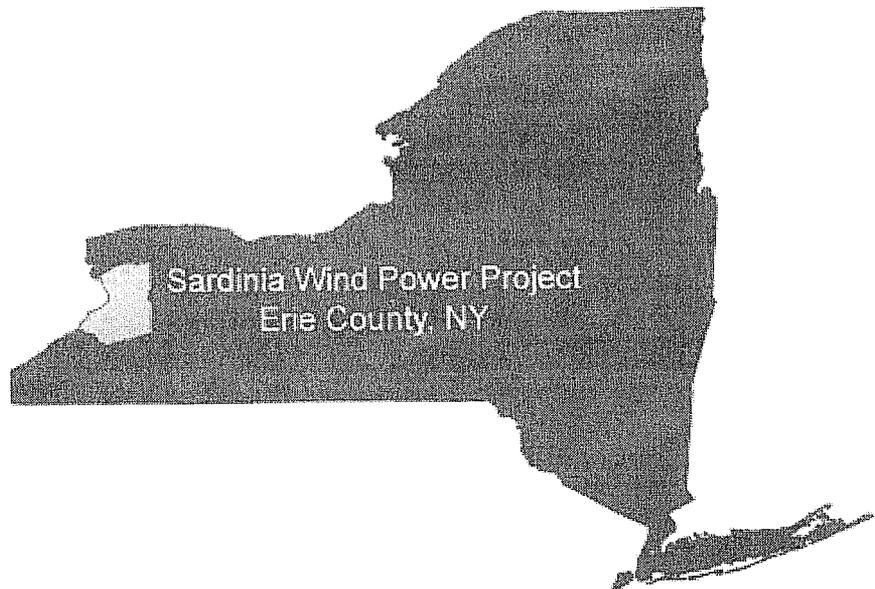
**Marble River Wind
Farm**

Erie County:

**North Collins Wind
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**Sardinia Wind Power
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SARDINIA WIND POWER PROJECT



The Sardinia Wind Power Project is a 40 to 50 MW wind generation facility proposed for the town of Sardinia in Erie County, New York, approximately 45 minutes south of Buffalo and 25 miles east of the Lake Erie shoreline.

Why Sardinia?

The site, which is located on and around the highest elevation in the county, has an appealing combination of wind resource, topography, and land use. The approximately 34 wind turbines will be sited on open farmland atop three north-south ridges.

Project Schedule

Project construction is planned to commence 2008-2010.

Horizon Wind Energy is progressing through the required development stages, including transmission studies, wind resources assessment, environmental impact analysis, and engineering. The project's size and location will allow for the sale of competitively produced wind energy throughout the New York ISO, PJM, and ISO New England control areas.

Wind in New York State

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Jennifer Harvey of NYSEERDA gave a talk at a Fall 2002 town meeting to introduce NYSEERDA (New York State Energy Research and Development Authority) and discuss the benefits of wind energy to New York state. [Click here to see her PowerPoint presentation.](#) (You must have PowerPoint installed on your computer to see this slide show.)

Notes from the Field

Greg Kemmis, Professional Land Consultant, wrote this essay as part of his land work for Horizon.

SARDINIA MEETS FENNER—THE BUS TOUR

All aboard! I love those words. They represent adventure and change. They're reminiscent of the excitement of boarding a train promising to carry its passengers beyond familiar parts. I'm from Norwegian stock so I'm compelled to respond when the prospect of adventure awaits. The Sardinians are like that, too. Ready to meet any challenge face to face.

All aboard!

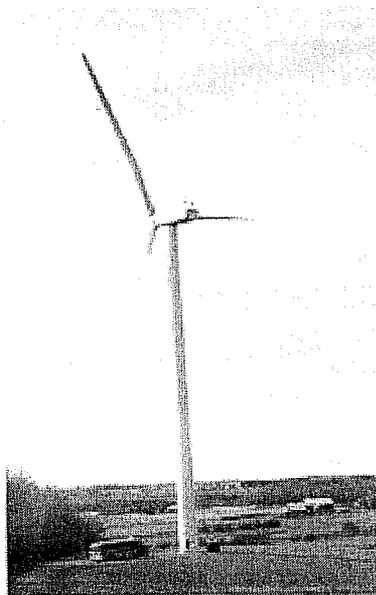
The Fenner Bus Tour departed from outside the Sardinia Town Hall just after 7 A.M. on Saturday, November 9th, 2002. The group gathered under the cover of an early morning sky. It was Saturday, and we had a full twelve hours ahead of us, but this was our adventure. The mood was mixed. Many in the group had never seen wind turbines. Those who had were anxious to see more, to compare what they'd seen at the neighboring Wethersfield Wind Farm with the Fenner Wind Farm. Would they be quieter or noisier? Would they look larger or just the same? How did the Town of Fenner feel about its wind farm? Did they want the turbines to disappear? Or were they excited, glad about the chance they'd been given to plant a wind farm?

The day was motivated by a sense of stewardship. Rural folk are stewards of the land. They live and work and play on the same land from which they derive meaning. To say a long-term country dweller is not a good steward is like saying a trapeze artist is afraid of heights. The group that gathered was a mix of state and county officials, including the entire Sardinia Town Board, representatives of the Planning Board, and members of the Zoning Board of Appeals, as well as farmers, landowners, residents, and representatives of Horizon Wind Energy. At Fenner the group expanded to include the Chairman of the Madison County Board of Supervisors, the Supervisor of the Town of Fenner, representatives from GE Wind Energy, and participating and non-participating neighbors of the project.

The first stop was along Mile Strip Road at a residence that provided a panoramic view to the west of all twenty turbines of Fenner Wind Farm. It was a picture-perfect moment. We all stood and listened as Russ Carey, the Town Supervisor of Fenner, spoke. He was aflame



with praise. His words wafted through the air like the aromas drifting from a wood-fired oven. He said the initial opposition to the wind farm had faded into the background and the position of the people in Fenner was now overwhelmingly positive. As he spoke, clothes on a line waved to the traffic buzzing across Oxbow Road. Someone noticed the noise from the cars on Oxbow eclipsed the noise from the windmills. Someone else asked about the substation. It sat behind a chain-link fence like a well-behaved farm animal, feeding from the electrons provided by the electrical collection system. It was invisible from Peterboro Road. The only hint of the substation's existence was to trace the path of the new poles that fed it. It was out of sight because good developers build projects that reinforce the idea of a "landscape with turbines" and not a "turbine-filled landscape."



Bus meets turbine.

Each stop only boosted the pride exhibited by the folks from Madison County. Rocky DiVeronica, the Chairman of the Board of Supervisors from Madison County, said that before the wind farm was built, this portion of the region was said to contain the towns of Canastota and Cazenovia. But now, after the wind farm, Madison County contains the towns of Canastota, Cazenovia, and Fenner. Fenner is no longer a wide spot in the road. It is a town. The windmills have put Fenner on the map. With the right mix of cooperation, hard work, and compromise, the town of Sardinia could rival her neighbors Springville and Arcade highlighting Route #39. There would be Springville, Arcade, and Sardinia. The windmills would identify Sardinia as a town filled with progressive-minded people.

As the bus motored onward through the landscape, the excitement mounted. By now it was obvious that the tensions weighing on many from the Town of Sardinia were easing. It was now an all-out field trip. The windmills turned lazily amid cattle grazing peacefully along the green banks of a favorite watering hole. Everywhere nature and the turbines co-existed like old friends who had found a home among the human inhabitants of this place. A flock of birds joined in the chorus like a well-planted movie prop. I'd arranged the tour, but I never could have orchestrated a pastoral setting like the one unfolding before us. After one final stop at the innocuous meteorological mast that tracks the behavior of the wind, it was time to leave. The mast was in good hands. The stewards had done their jobs. The roads fit neatly into the fields, homes along the way were protected by friendly setbacks, and clusters of turbines were arranged in a workmanlike manner.



Cows and turbines living together gracefully at Fenner Wind Farm.

Our next and final stop was Cazenovia, New York, at the Linklaen House. It was time to break bread. There, out from under the sun of the mid-afternoon, we gathered to discuss the trip and anticipate the ride home. Among the pillars and chandeliers, there was respite. The town officials had the answers they sorely needed to answer the prickly-pear questions of the opposition back home. Now the only concern was whether to choose the freshly baked pasta or the zesty beef.

The ride home was filled with excited commentary. Graduates from Arcade High School sang school fight songs, their enthusiastic voices clear and bright like the energy of the wind turbines. There was hope. With open and keen minds, the Sardinians were ready to embrace the New York winds.

Links

[Wind Turbines at Fenner, New York...Town Officials Give Their Impressions, by Judy Kessler; Arcade Herald, November 29, 2002.](#) This article is a different account of the trip described in Greg Kemmis's essay.

Landowner Comments

Carl Stone, along with his wife Bonnie, owns land on which 5 of the 7 Vestas V66 turbines are located for the Madison Wind Power Project in Madison, New York. He offers the following poem in praise of wind power.

Winds of Change

The farmlands of our New York State
Are takin' on a change.
It all has happened just of late,
And to most it still looks strange.

There is a brand new crop here now,
Like none we've ever seen.
It isn't some new breed of cow,
And it has no leaves of green.

The crop that I now speak about
Has been with us all along.
It's one we've never been without,
It's presence always strong.

For years I've always fought it,
Rarely considered it a friend.
Until this fella, he just bought it,
Yup, this guy, he bought my wind!

So now up from the fields of corn,
Majestic towers rise,
And mammoth rotors gently turn
Against the bright blue skies.

I think we will see many more
Before we all are through,
But one thing that I know for sure,
It's the right thing for us to do.

It surely beats a plume of smoke
Polluting all our air.
They stand as symbols to all folk
To show that we must care.

For years we all learned to take
From this world placed in our hands,
But now for all our children's sake,
We must make some long-term plans.

So where will they finish with this thing?
I s'pose I'll never know.
I just hope that guy drops by 'fore spring.
Maybe I can sell some snow!

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