





# Update to the Hardin Wind Energy LLC Amended Application to the Ohio Power Siting Board

**CASE NO. 09-479-EL-BGN** 

#### 11/12/2009

#### Recapitulation

Hardin Wind Energy LLC (the Applicant), an affiliate of Invenergy Wind Development LLC (Invenergy), is proposing to construct a 300 megawatt (MW) wind-powered electric generation facility in the western portion of Hardin County (the wind farm) consisting of up to 200 General Electric (GE) xle series (or model) wind turbines. The GE xle model may have a nameplate capacity of either 1.5 MW or 1.6 MW. Regardless of the nameplate capacity utilized, the GE xle series wind turbine will have identical dimensions. The wind farm will interconnect to the regional electrical system through the construction of a substation adjacent to the transmission lines that cross through the Project Area.

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#### **Summary**

Since Hardin Wind filed its amended application to the Ohio Power Siting Board (OPSB) for a Certificate of Environmental Compatibility and Public Need on September 18<sup>th</sup>, 2009, the Applicant discovered that it inadvertently included only 193 wind turbine locations in the amended application when it had intended to include 203. As such the Applicant is submitting this additional report in which the additional 10 wind turbine locations (200 planned for construction with 3 alternates) are evaluated (hereinafter the "additional wind turbines"). For clarity, the pages of the maps/figures included in this update report (the "Updated Figures") are those in which the additional wind turbines appear. Provided along with this updated report is Figure 01-01 showing where the 10 additional wind turbines are located within the Project Area.

Additionally, the Applicant is in the process of developing more rigorous analyses of noise impact, shadow flicker, cultural resources and wetlands in the Project Area. These analyses will include an evaluation of the additional wind turbines and will be submitted to the OPSB staff upon their completion.

As part of this update report, the Applicant has included in this update, an identical evaluation of impacts to land use and land cover type as had been submitted as part of the Application. The estimated area required for the additional turbines during construction and operation are summarized in Table 03-01.

Table 03-01 Updated Estimated Area Disturbances for Additional Wind Turbines

Impact	Area Disturbance during Construction (Temporary)	Area Disturbance during Operation (Permanent)	Qty	Total Construction Disturbance	Total Permanent Disturbance
Turbines	2.9 acres per turbine	0.04 acres per turbine	10 turbines	29 acres	0.4 acres
Access Roads	67 feet wide	31 feet wide	2.5 miles	20 acres	9.4 acres
Cables	30 feet wide	None	2.5 miles	9.3 acres	None
Total				58.3 acres	9.8 acres
Average per wind turbine				5.83 acres	0.98 acres

The Applicant has provided an updated map at 1:24,000 scale containing a five mile radius and showing: the additional wind turbines, major population centers and geographic boundaries, major transportation routes and utility corridors, bodies of water, topographic contours, major institutions/parks/recreational, residential, commercial buildings and installations, and both existing and proposed air transportation facilities known to the Applicant as Updated Figure 05-01. The Applicant has provided an aerial photo including a one-mile radius from proposed wind farm and indicating the location of the proposed additional wind turbines in relation to surface features as part of Updated Figure 05-01.

The Applicant has provided an updated map at 1:12,000 scale of the Project Area as Updated Figure 05-02 which shows the following: topographic contours, existing vegetative cover, land use and classifications, individual structures and installations, surface waters. The surface waters shown on this map are those determined during Tetra Tech's Wetland Reconnaissance Survey which the Applicant has previously provided. An on site field delineation of the resources which will require permits to cross is planned for the 4<sup>th</sup> Quarter of 2009 and will be submitted to the OPSB Staff upon submittal to the Army Corps of Engineers. Updated Figure 05-02 also displays known locations of water and gas wells based on information

from the United States Geological Survey, the U.S. Environmental Protection Agency – National Technical Information Service, and ODNR – Division of Water Well Logs.

The Applicant has provided cross sectional views of the Project Area, generated from unpublished ODNR maps showing the vertical sequence, character, and thicknesses of the glacial geology strata of the area, glacial till, bedrock geology, and soil type including the additional wind turbines, attached as Updated Figures 05-03, 05-04, 05-05, and 05-07 respectively.

The Applicant has provided an updated map at 1:12,000 scale of the proposed wind powered electric generation facility. This figures show the following features of the proposed and existing facility or associated facilities wind turbines, transformers and collection lines, construction staging areas, transmission lines, substations, transportation facilities and access roads, security facilities, grade elevations, and any other pertinent installations associated directly with the updated wind turbines as Updated Figure 05-11.

The Applicant has provided an updated map at 1:24,000 scale containing a half-mile radius from wind farm and showing the Project Area boundary, additional wind turbines, undeveloped or abandoned land, and recreational areas as Updated Figure 08-02.

The Applicant has included an updated map of land uses as Updated Figure 08-03. Note that there are no wind energy facilities related to the additional wind turbines located within 100 feet of a residence.

The Applicant has provided Updated Table 08-08 and Updated Table 08-09 below to illustrate the impacts to land uses and land cover from the updated wind turbines.

Table 08-08 Updated Temporary and Permanent Land Use Impacts

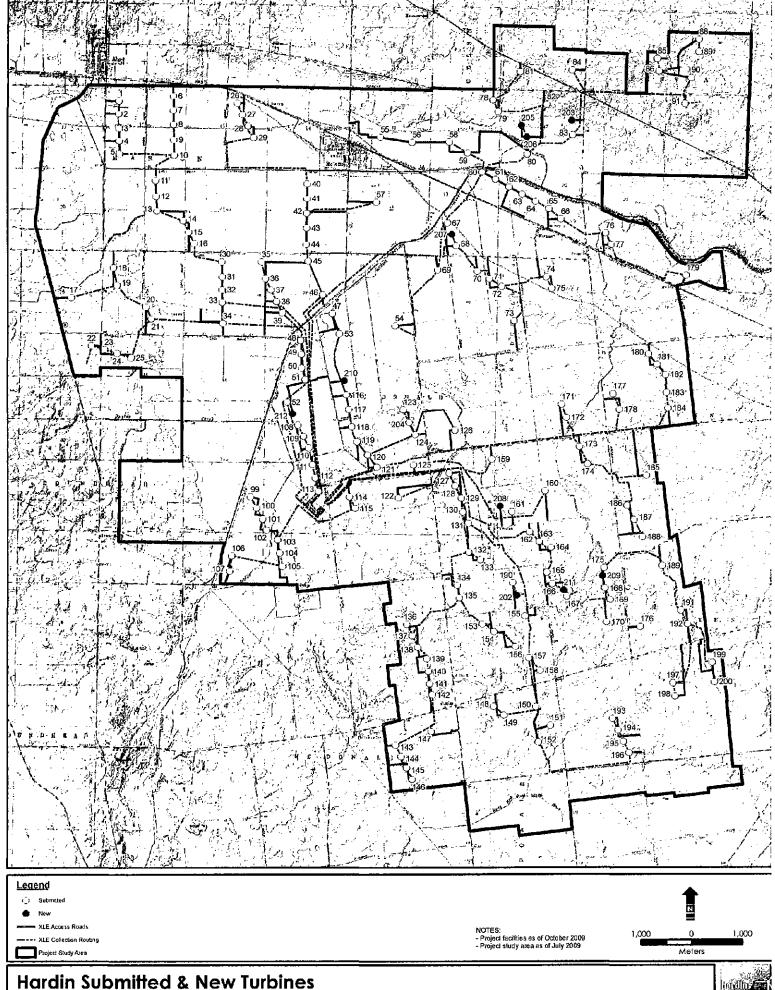
Land Cover	Total Acres in Project Area	Temporary Acres Impacted	Percent Temporarily Impacted	Permanent Acres Impacted	Percent Permanently Impacted
Cultivated Crops	31636	45.16	0%	7.7	0%
Hay/Pasture	1022	10.5	1%	1.3	0%
Deciduous Forest	1075	2	0%	0.8	0%
Total		58.3		9.8	

Table 08-09 Updated Temporary and Permanent Land Use Impacts

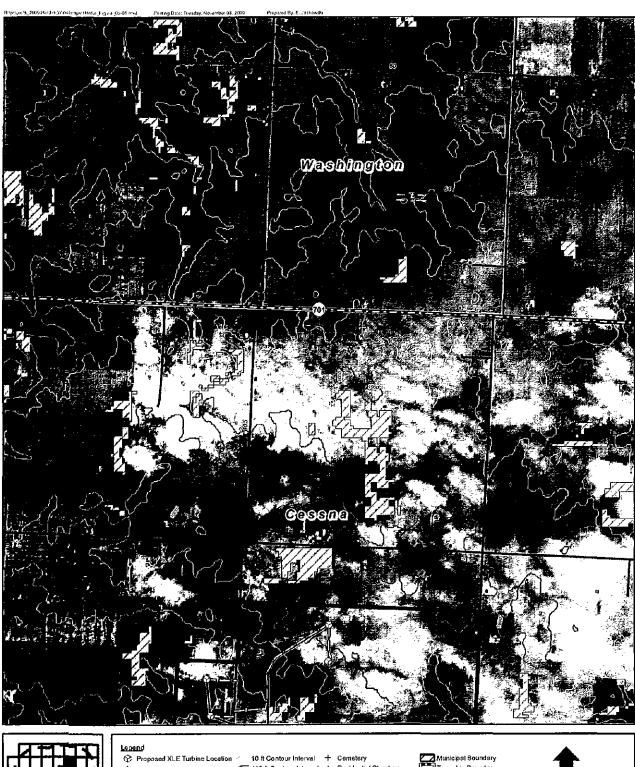
			Temporary Impact to		Permanent Impact to Project	
Total Project Area		Project Area		Area		
Category	Acres		Acres	Percent of Total	Acres	Percent of Total
Agricultural	34171	35	58.3	0%	9.8	0%

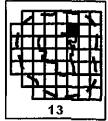
An updated map of landmarks of cultural significance and recreational areas is provided as Updated Figure 08-03. This maps shows of the Project Area and a five mile buffer. Contents include land uses, national registered landmarks, and any existing or formally adopted land and water recreation areas.

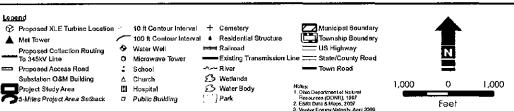
Updated Figure 08-05 is an updated 1:24,000 scale map identifying all agricultural district land located within the project boundary. There are 2,619 acres of agricultural district land in the Project Area. For the additional wind turbine layout, 2 wind turbines would be sited in agricultural district land impacting approximately 4.7 acres or less than 0.1% of the agricultural district land within the Project Area, during construction only. The area impacted area during the operation of the additional wind turbines will be approximately 0.4 acres or less than 0.1% of the agricultural district land.



Hardin Wind Farm, Hardin County, Ohio

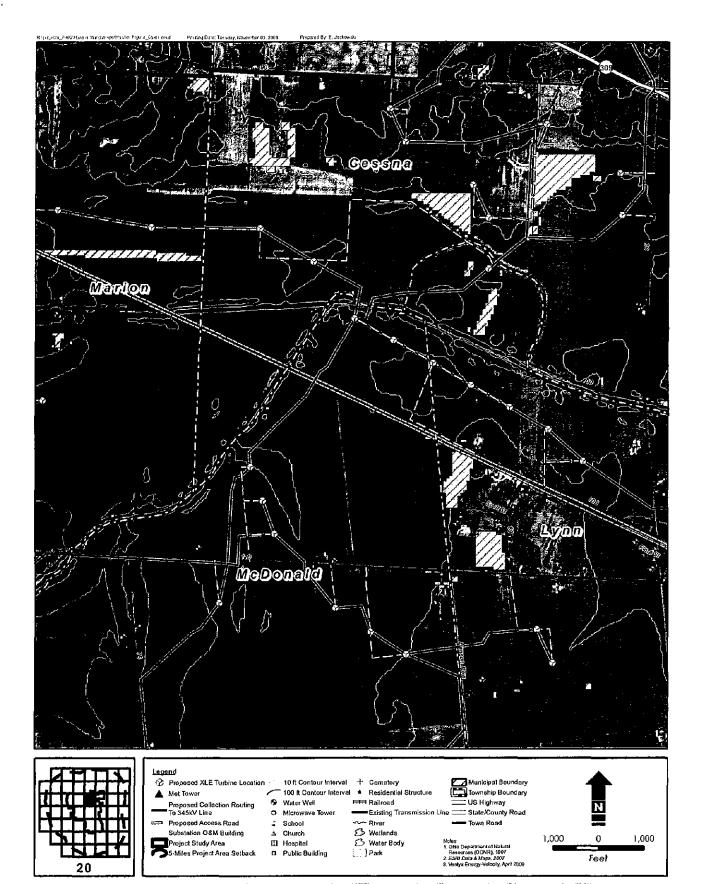






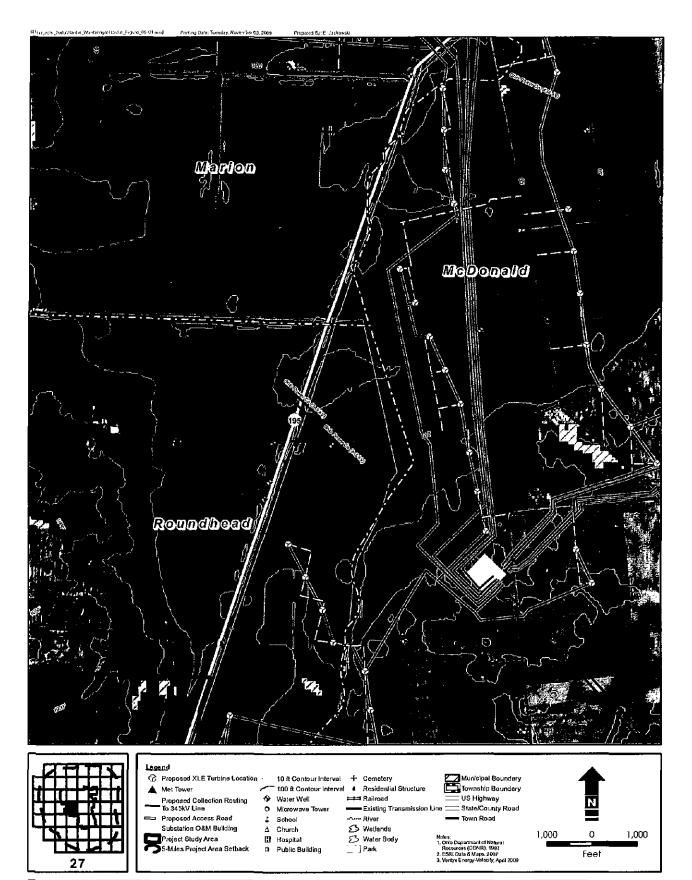
Hardin Wind Farm, Hardin County, Ohio





Hardin Wind Farm, Hardin County, Ohio

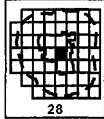




Hardin Wind Farm, Hardin County, Ohio









Proposed Access Road

Substation O&M Building

Project Study Area
5-Miles Project Area Setback

♦ Water Well Microwave To

School

Church

■ Hospital Public Building

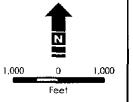
10 ft Contour Interval + Cemetery 100 ft Contour Interval • Residential Structure म्म Reilroad

~--- River

Wetlands

Water Body

Municipal Boundary
Township Boundary . US Highway State/County Road Existing Transmission Line = Town Road

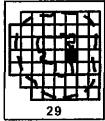


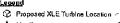
#### Geography and Topography of Project Area

Hardin Wind Farm, Hardin County, Ohio









Met Tower Proposed Collection Routing
To 345kV Line

Proposed Access Road

Substation O&M Building Project Sludy Area 5-Miles Project Area Setback

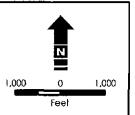
- 10 ft Contour Interval + Cemetery
- 100 ft Contour Interval 

  Residential Structure Water Well □ Railroad Cl Microwaye Towe Existing Trans

School S Wetlands
S Water Body
Park Church

Hospital □ Public Building Municipal Boundary
Township Boundary US Highway State/County Road

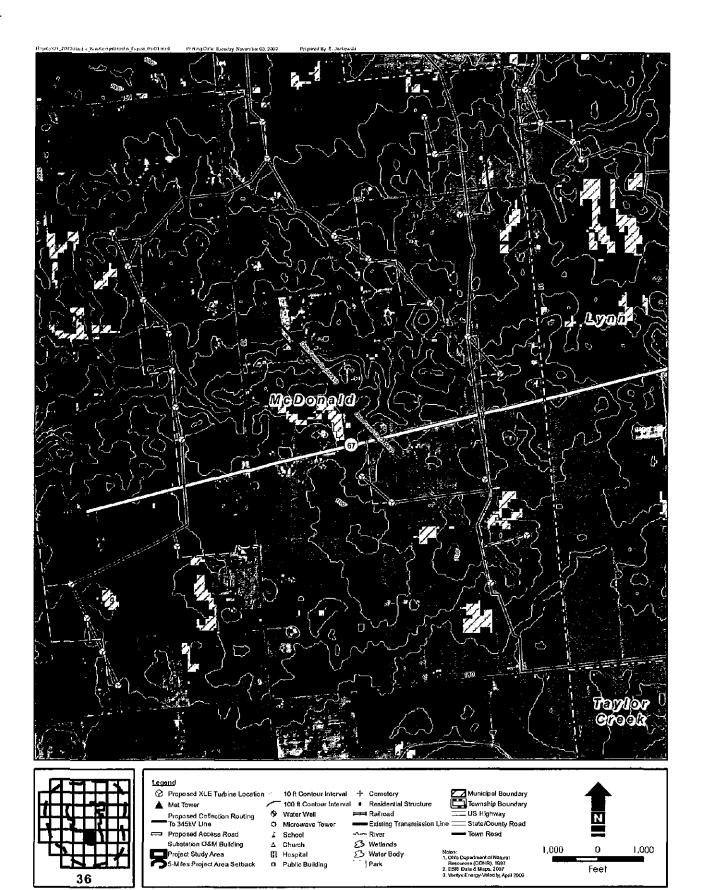
— Town Road



#### Geography and Topography of Project Area

Hardin Wind Farm, Hardin County, Ohio





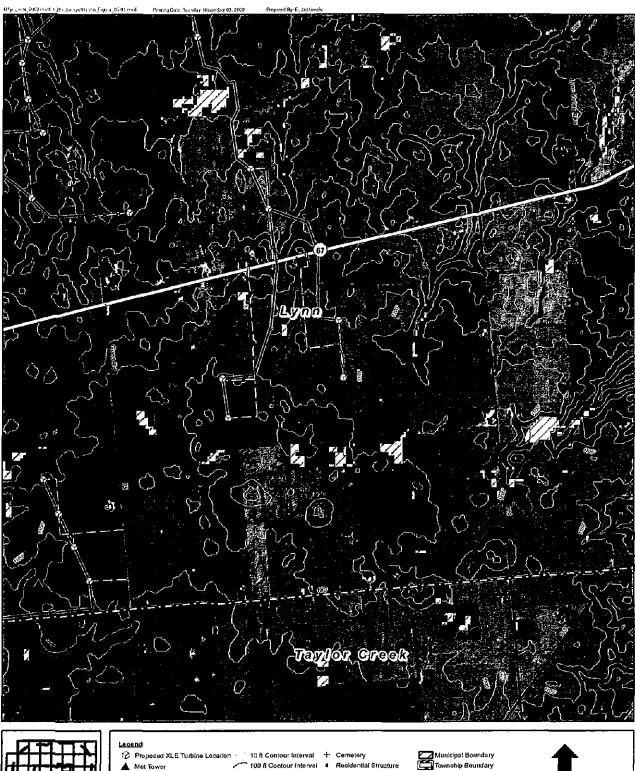


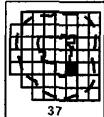
Hardin Wind Farm, Hardin County, Ohio

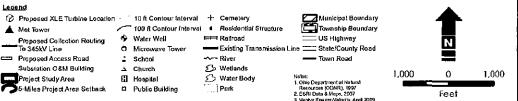
November 03, 2009

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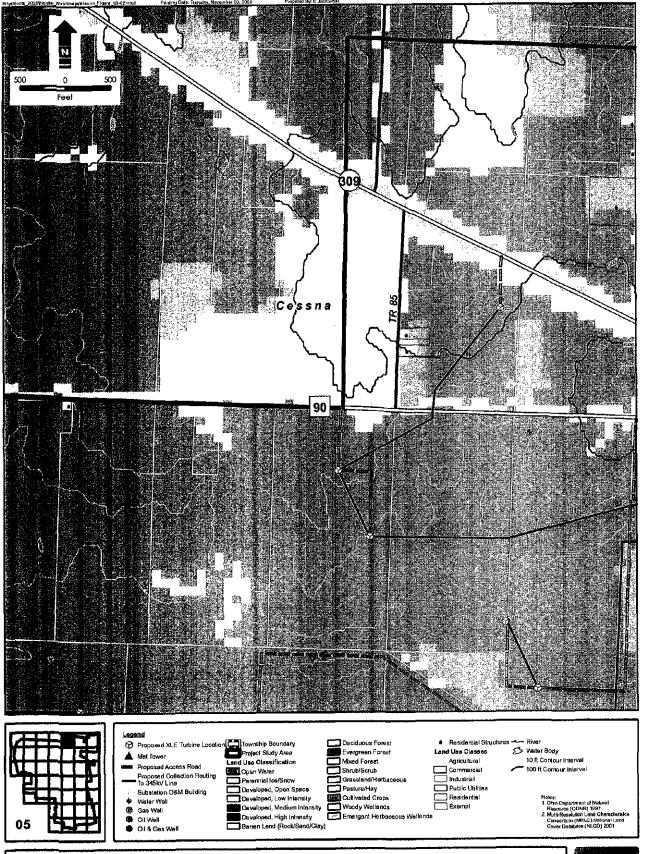


Hardin Wind Farm, Hardin County, Ohio

November 03, 2009

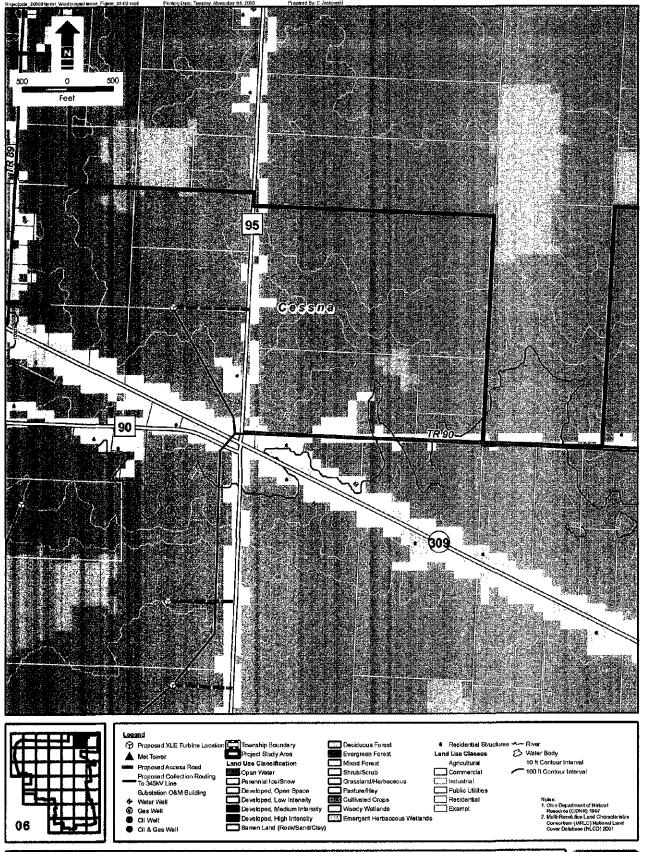
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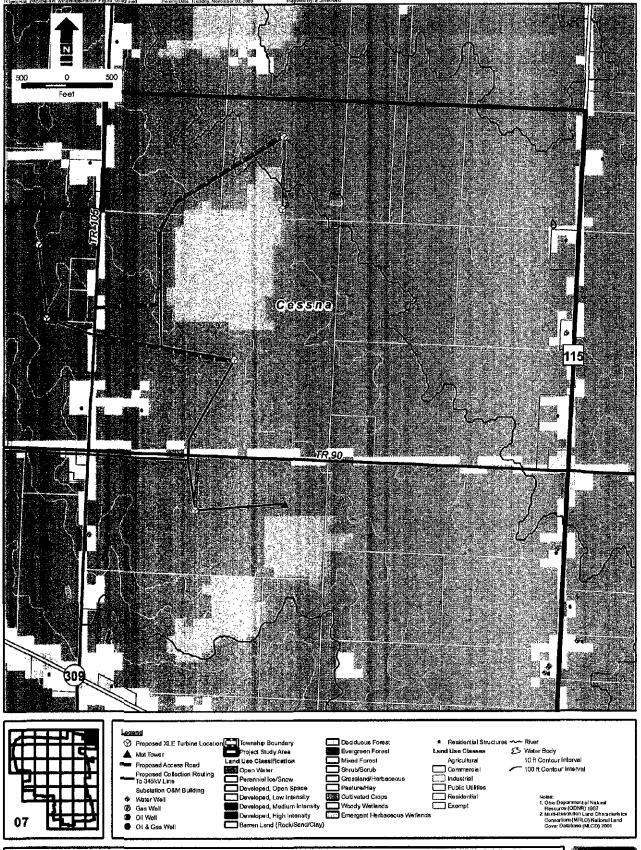
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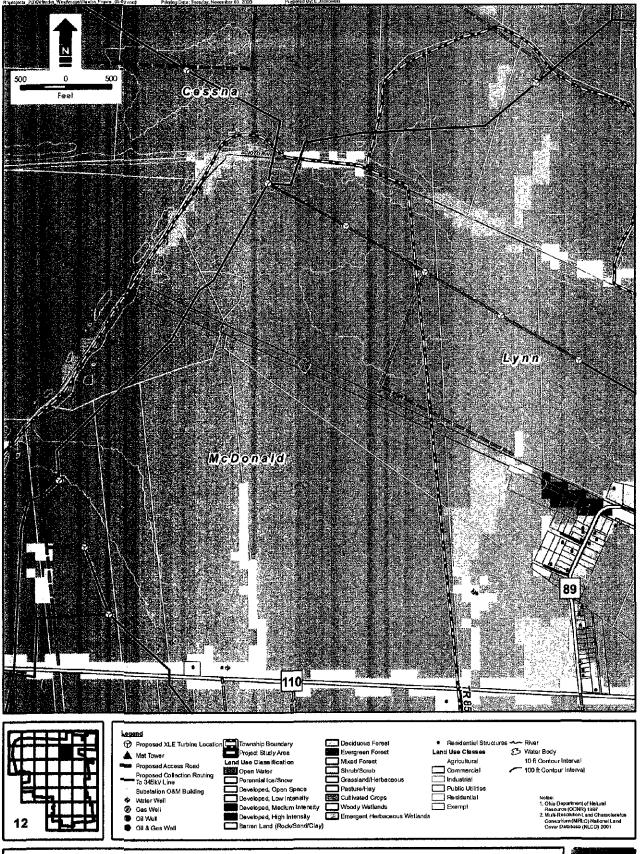
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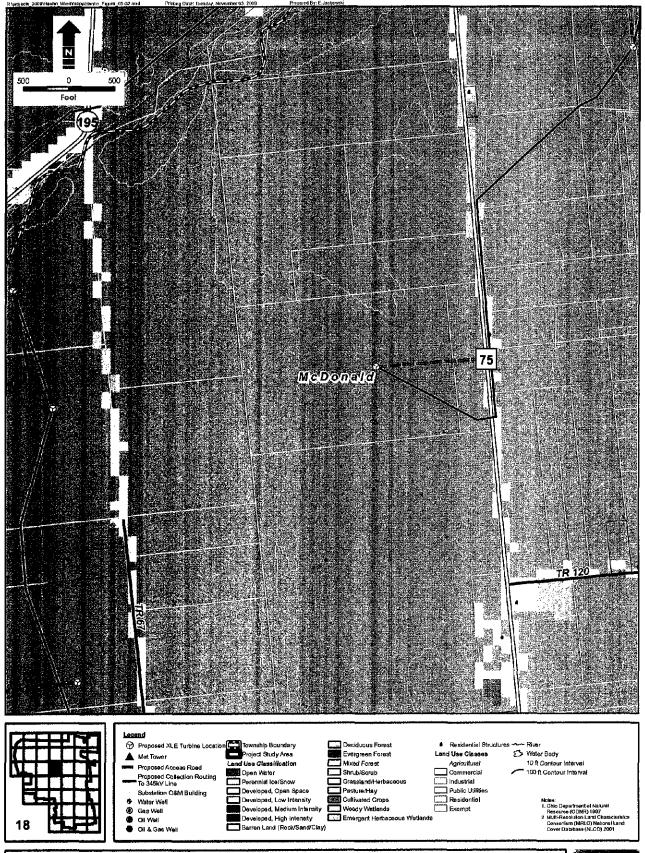
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Hardin Wind Farm, Hardin County, Ohio

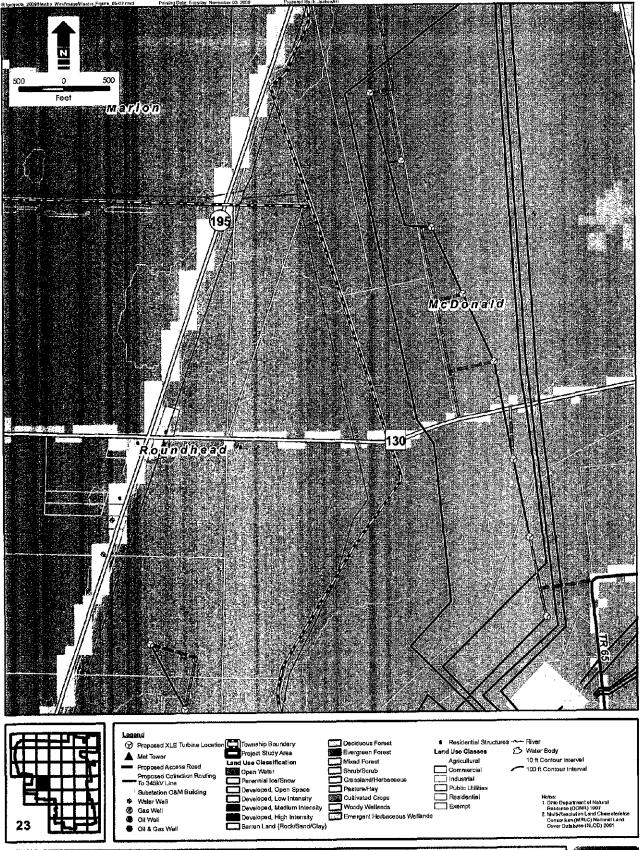




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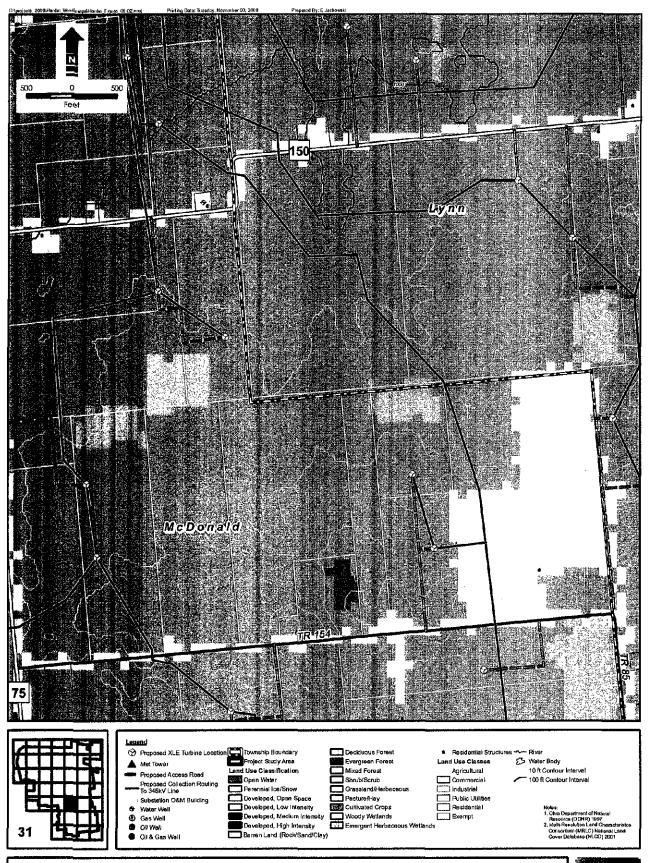
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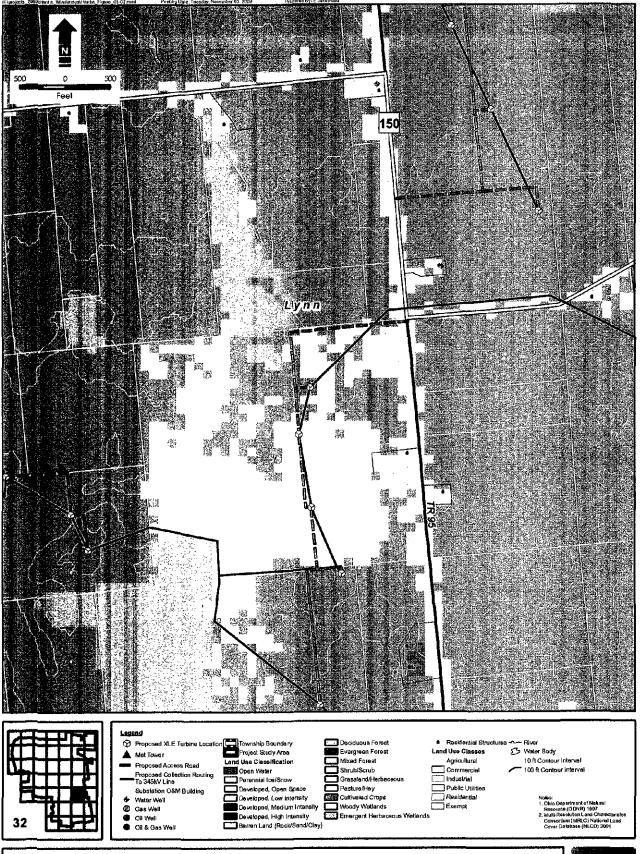
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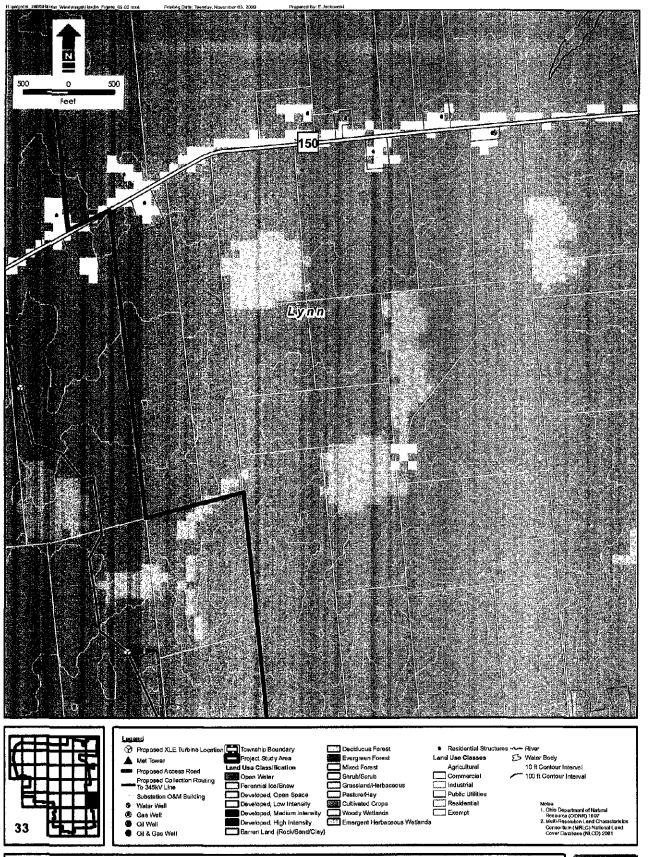
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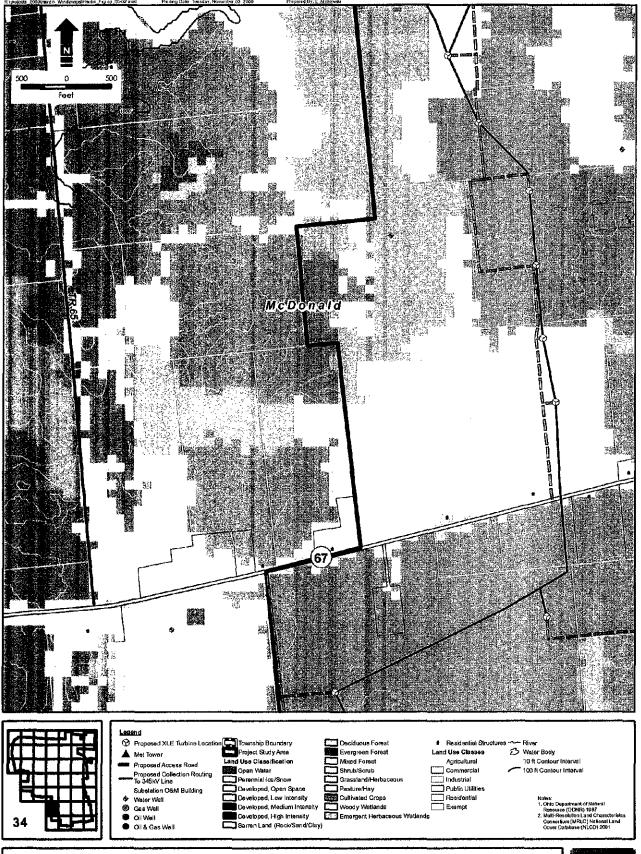
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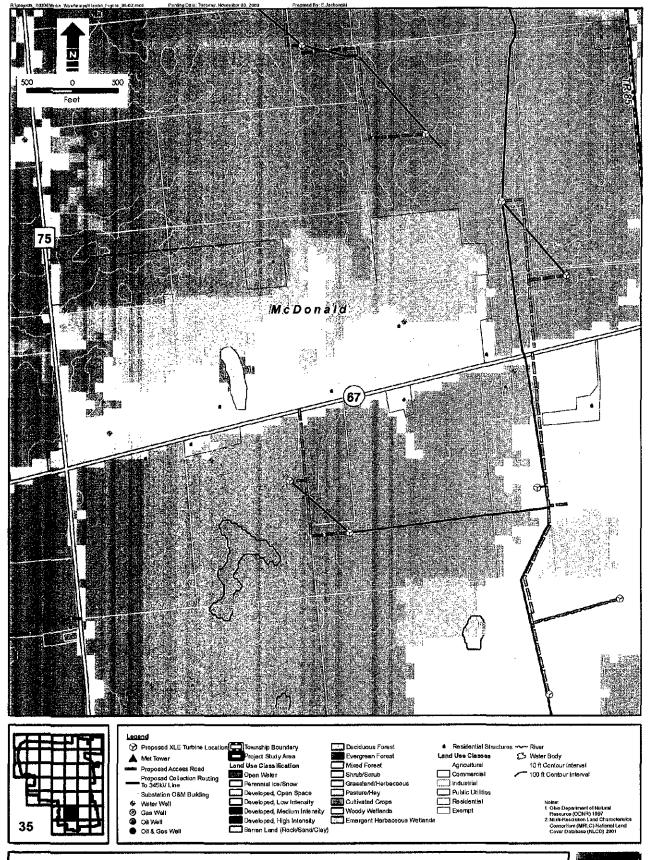
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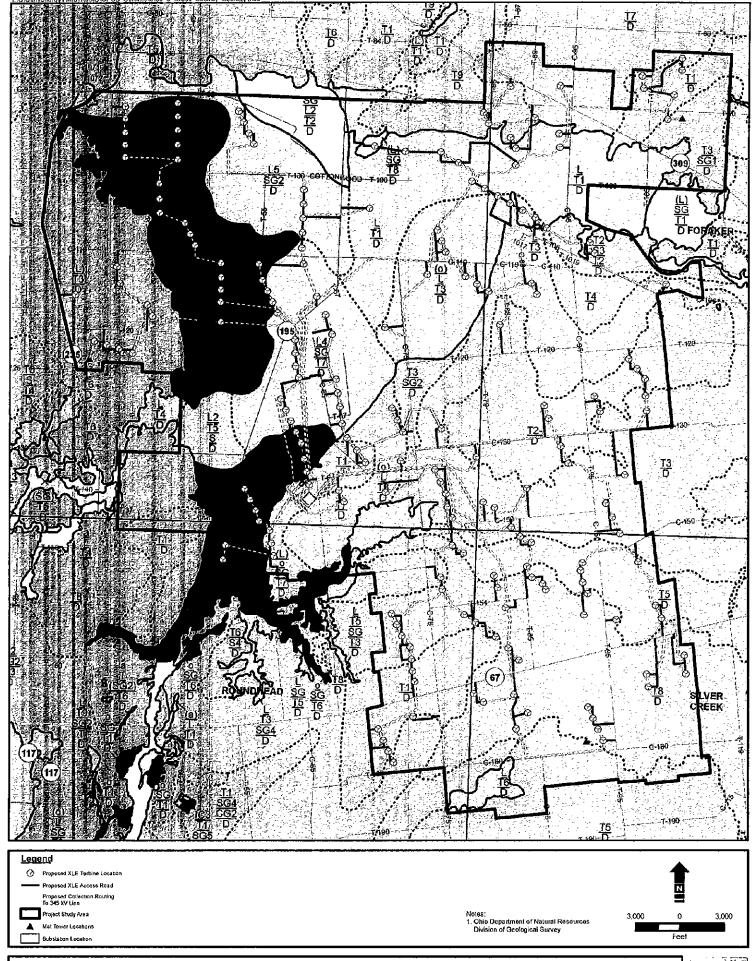
Hardin Wind Farm, Hardin County, Ohio





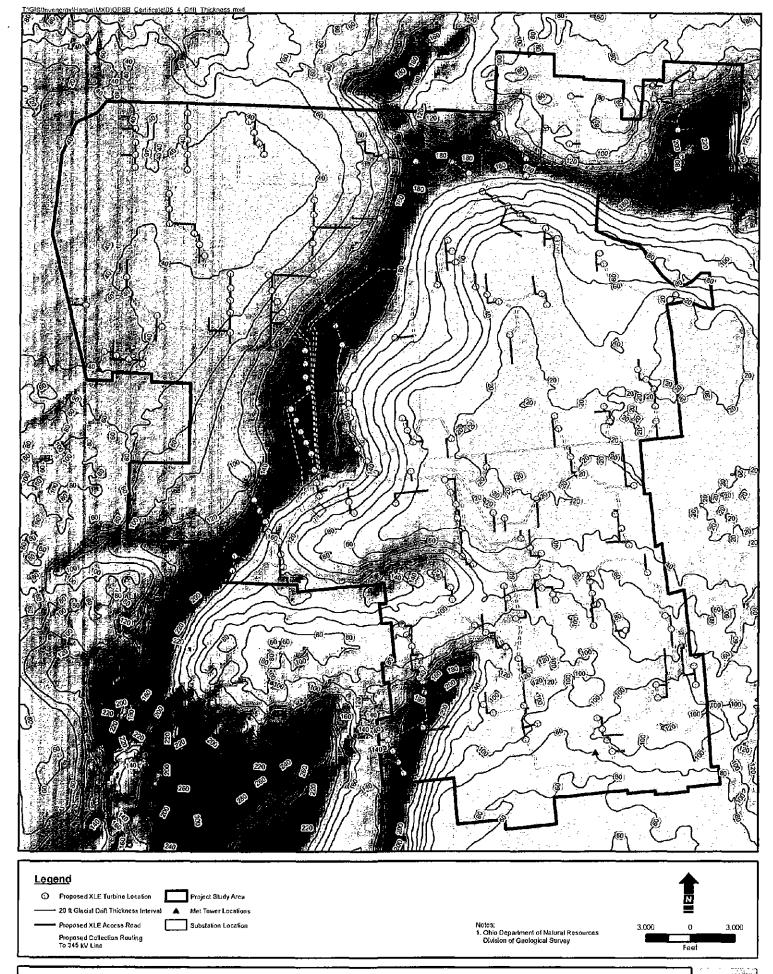
Hardin Wind Farm, Hardin County, Ohio





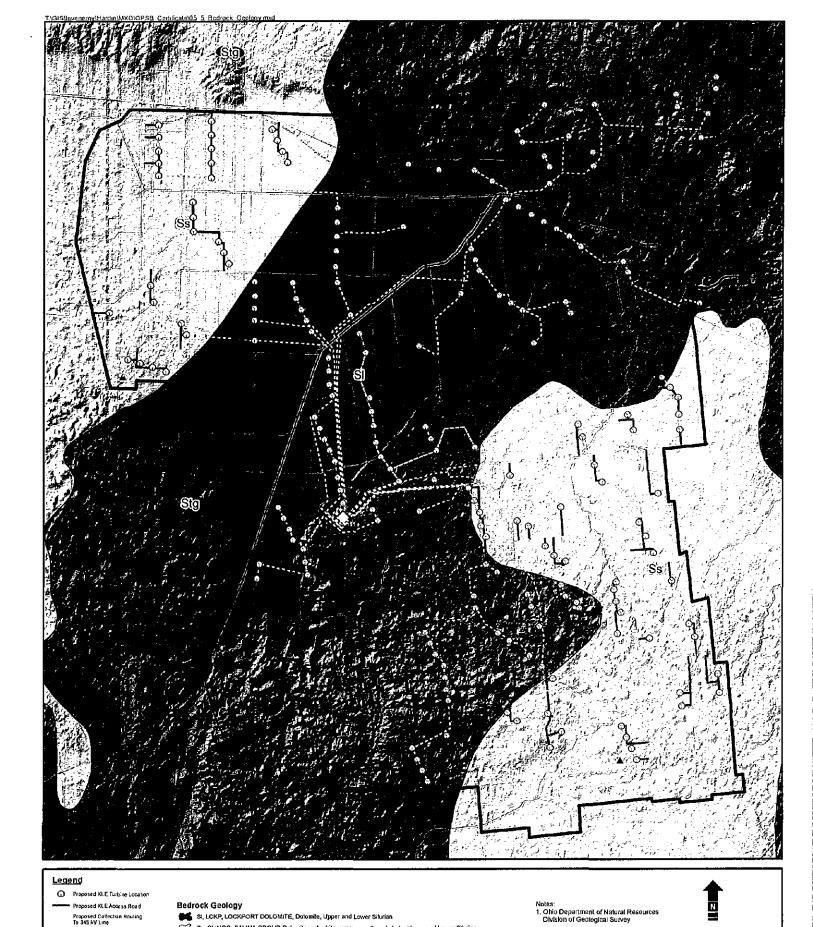
#### **Hardin Cross Sectional Geology**

Hardin Wind Farm, Hardin County, Ohio



#### Hardin Glacial Drift Thickness

Hardin Wind Farm, Hardin County, Ohio



Ss., SLINGG, SALINA GROUP, Dolomite, anhydrite, gypsum, salt, and shale, Upper and Lower Siturian

Stg. TMGF, TYMOCHTEE AND GREENFIELD DOLOMITES, UNDIMIDED, Dolomite and shale, Upper and Lower Silurian



Project Study Area

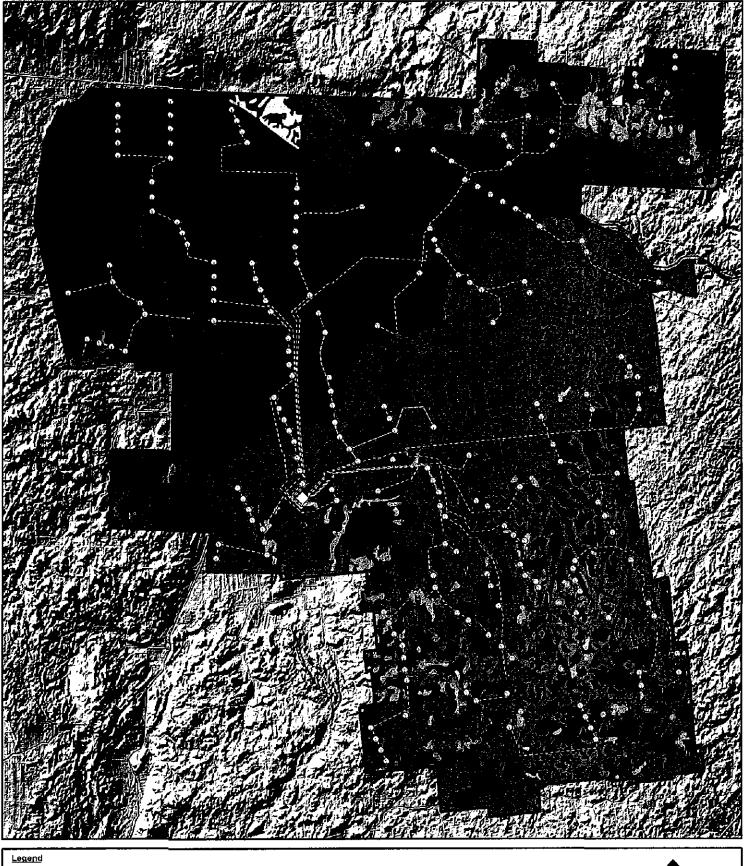
▲ Well Tower Locations \$ubstation Location

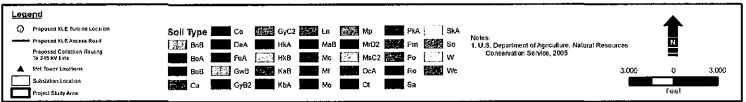
Hardin Wind Farm, Hardin County, Ohio

November 2009

3,000

3.000





#### **Hardin Soils**







Proposed XLE Access Road

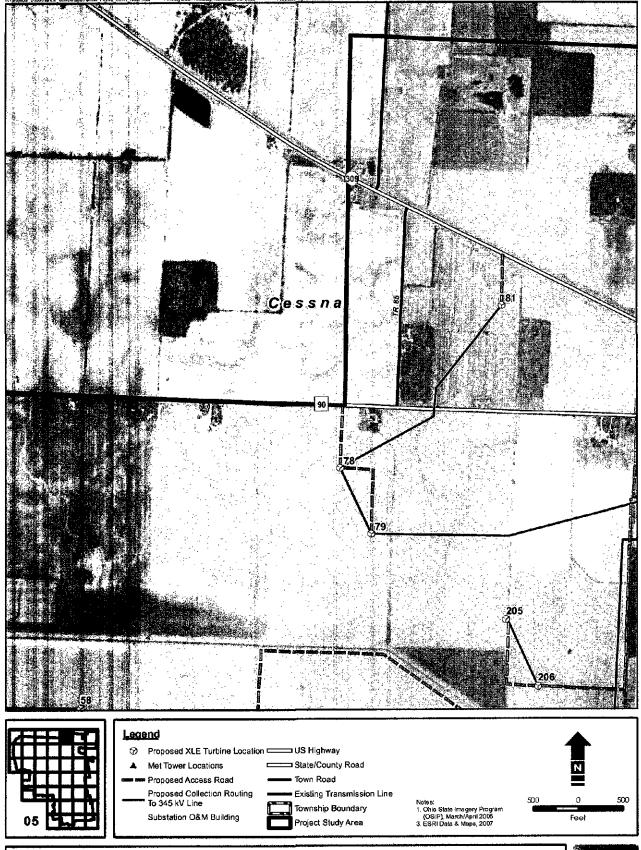
Proposed Collection Routing To 345 kV Line

Hardin Wind Farm, Hardin County, Ohio

Project Study Area

3,000

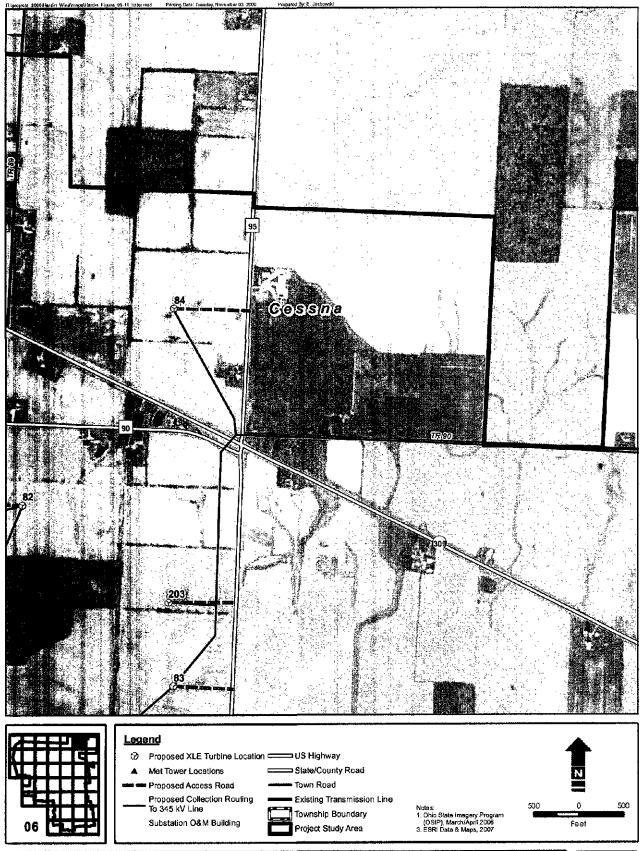
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### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio

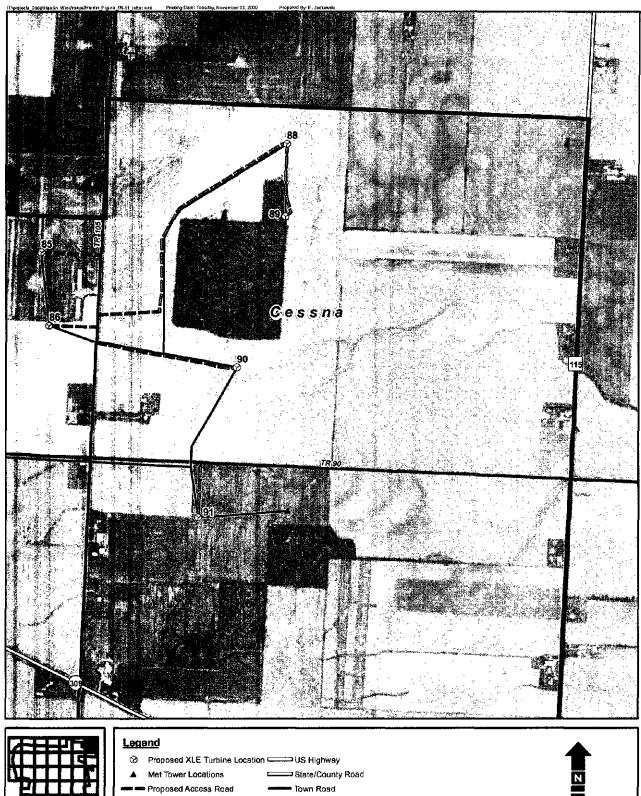


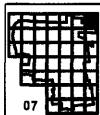


#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







## Proposed Collection Routing To 345 kV Line Existing Transmission Line

Substation O&M Building

Township Boundary Project Study Area

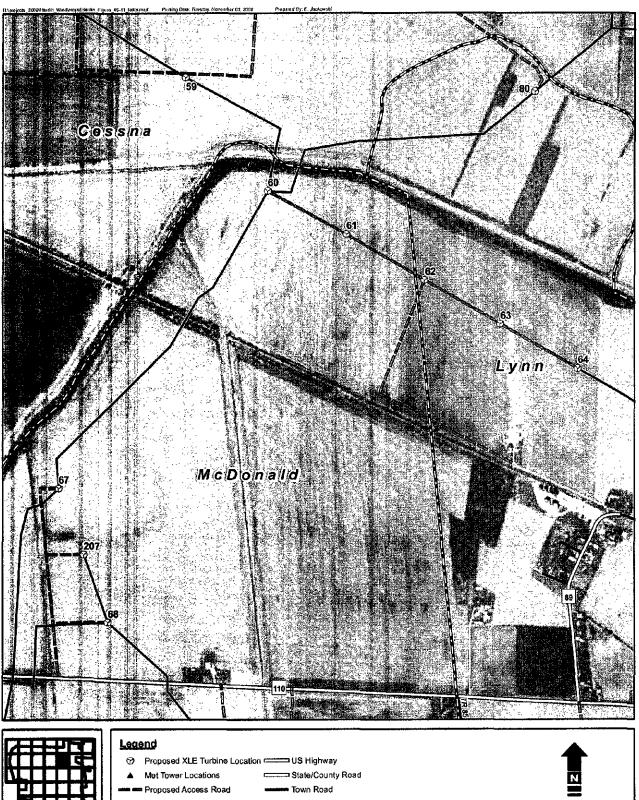
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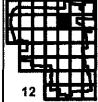


#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







Proposed Collection Routing To 345 kV Line Substation O&M Building

Existing Transmission Line Township Boundary Project Study Area

Notes:
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3. ESRI Date & Maps, 2007

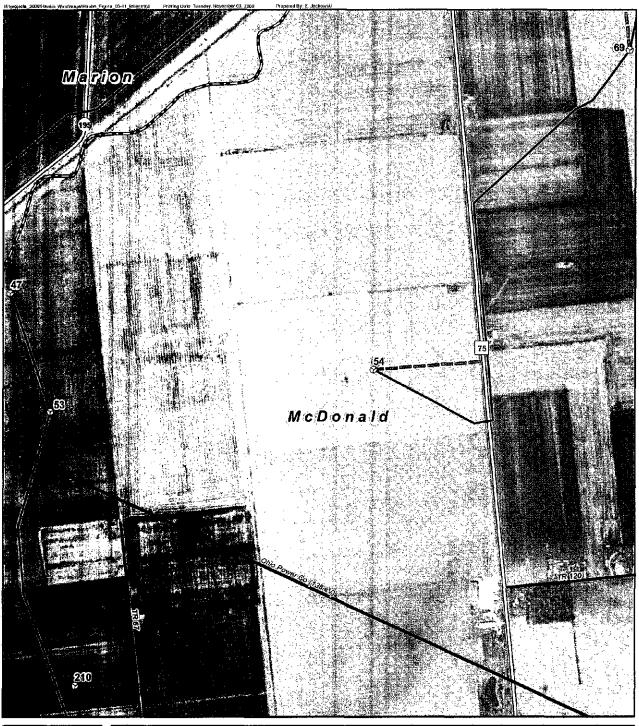


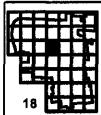
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#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







#### <u>Legend</u>

Proposed XLE Turbine Location - US Highway

State/County Road

▲ Met Tower Locations
■ Proposed Access Road

To 345 kV Line

Town Road

Existing Transmission Line

Township Boundary
Project Study Area

Notes: 1. Ohio State Image (OSIP) March/A



#### Wind Farm Layout with XLE Wind Turbine

Proposed Collection Routing

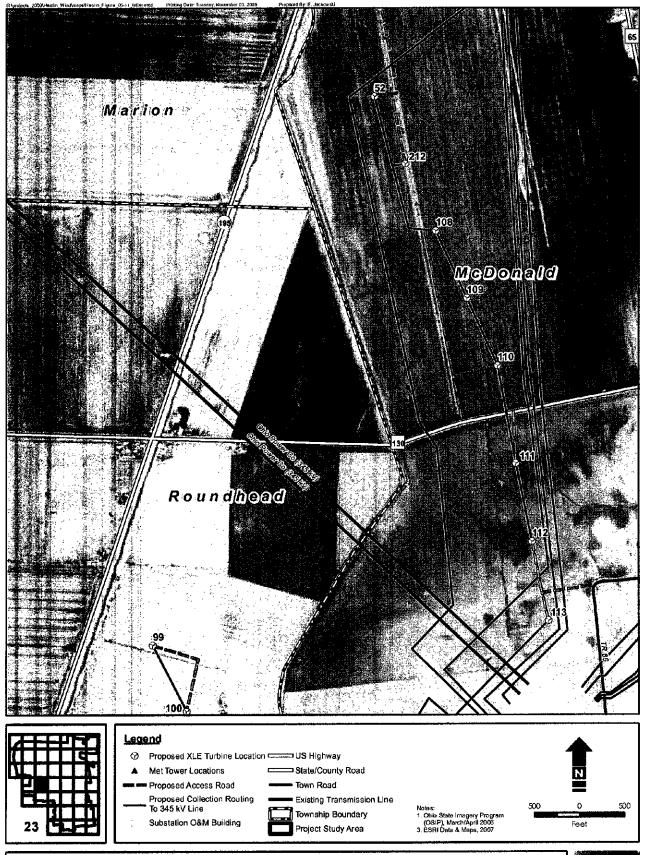
Substation O&M Building

Hardin Wind Farm, Hardin County, Ohio

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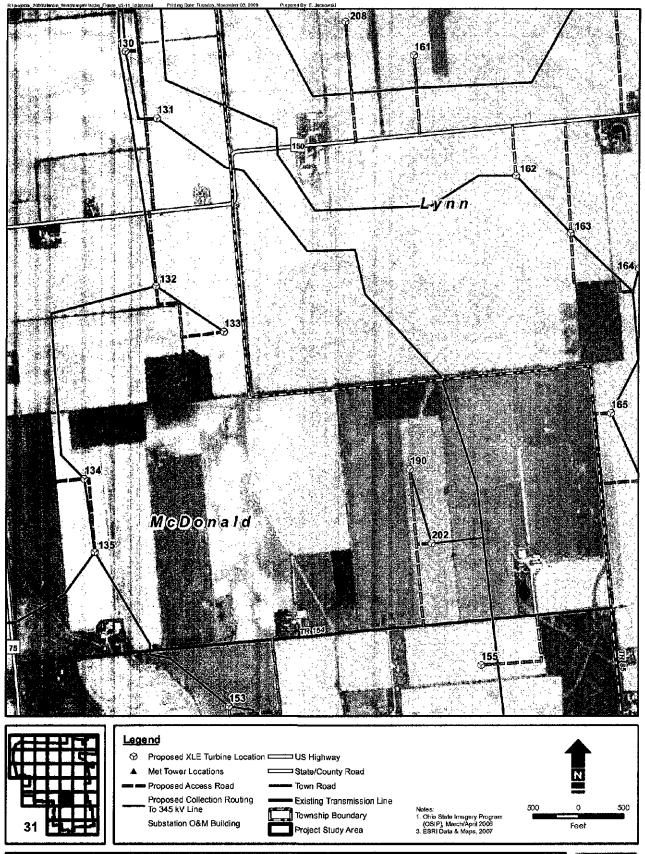




#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio

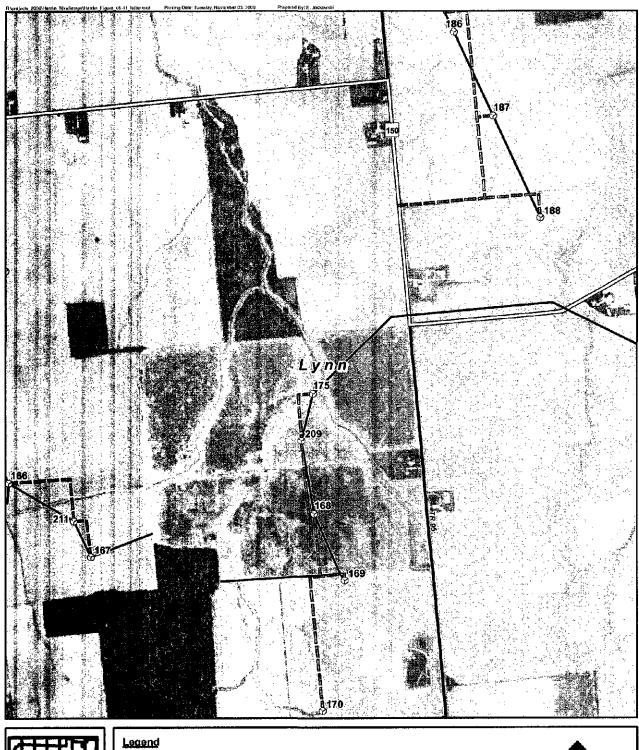


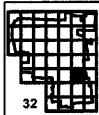


### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







Proposed XLE Turbine Location 
 □□US Highway

US Highway
State/County Road

Met Tower Locations

Town Road

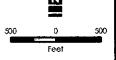
Proposed Access Road
Proposed Collection Routing
To 345 kV Line

Substation O&M Building

Existing Transmission Line

Township Boundary
Project Study Area

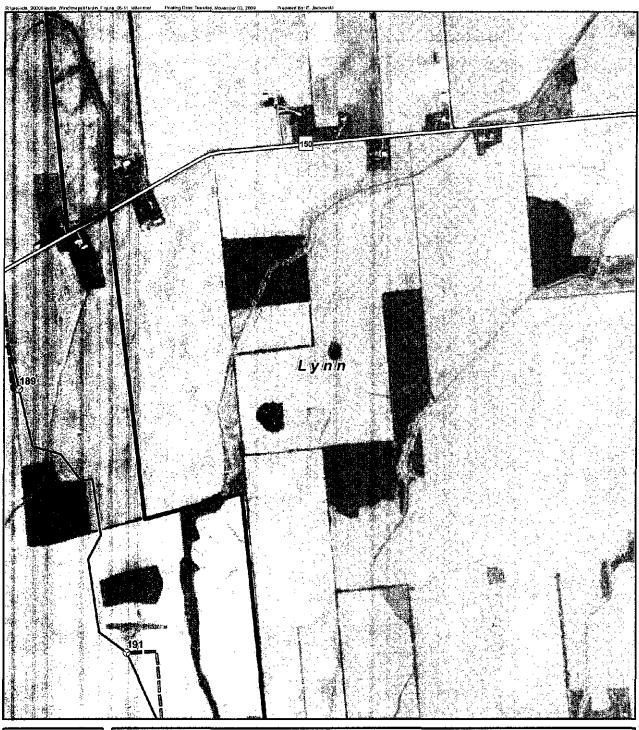
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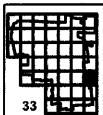


#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







#### <u>Legend</u>

State/County Road

Met Tower Locations

Proposed Access Road

Proposed Collection Routing
To 345 kV Line

Substation O&M Building

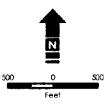
Town Road

Existing Transmis

Existing Transmission Line
Township Boundary

Project Study Area

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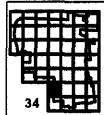


#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio







# Proposed XLE Turbine Location US Highway ■ Met Tower Locations State/County Road Proposed Access Road From Road Proposed Collection Routing To 345 kV Line Township Boundary (OSIP) March/April 2006 Substation O&M Building Project Study Area 1. Chin State Imagory Program (OSIP) March/April 2006 Substation O&M Building Project Study Area 5. ESRI Data & Maps. 2007

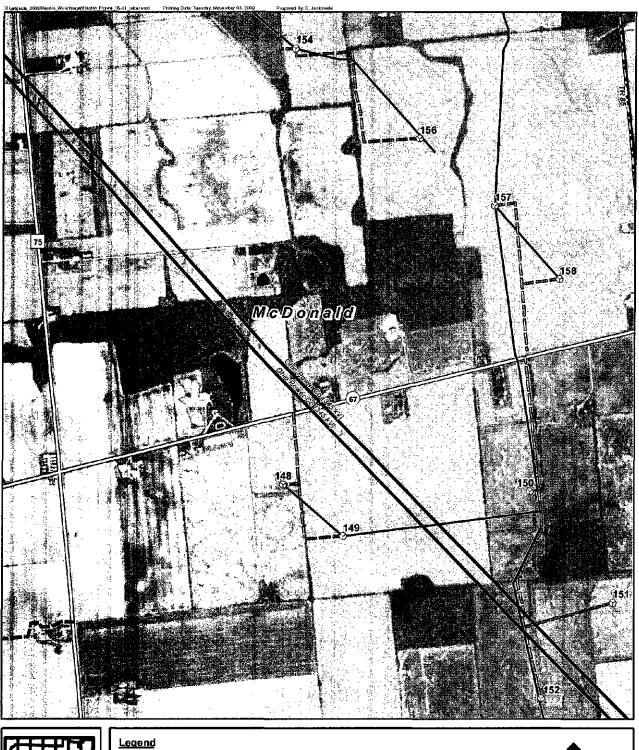
#### Wind Farm Layout with XLE Wind Turbine

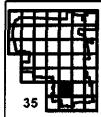
Hardin Wind Farm, Hardin County, Ohio

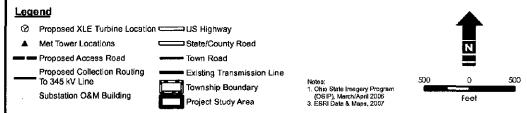
November 03, 2009

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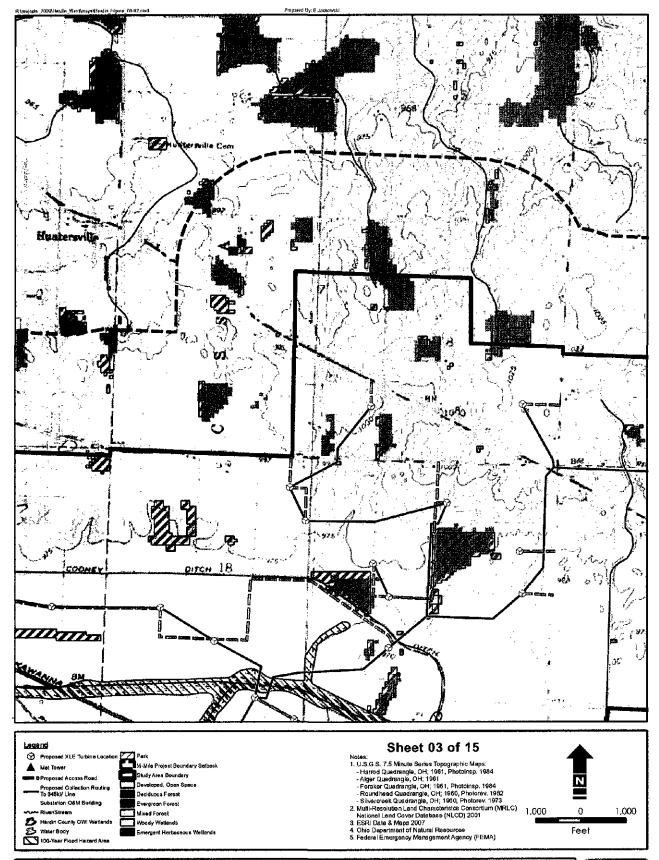




#### Wind Farm Layout with XLE Wind Turbine

Hardin Wind Farm, Hardin County, Ohio

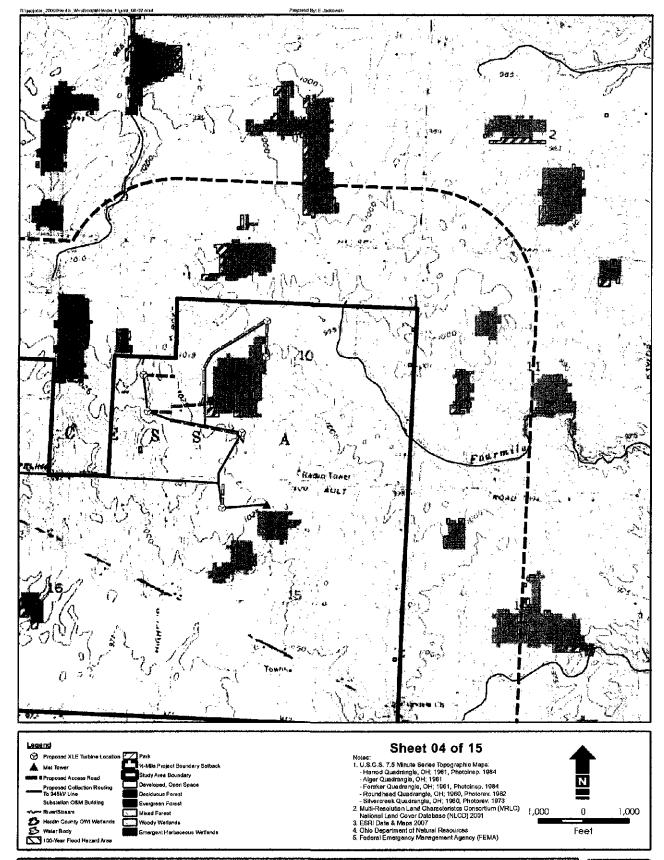




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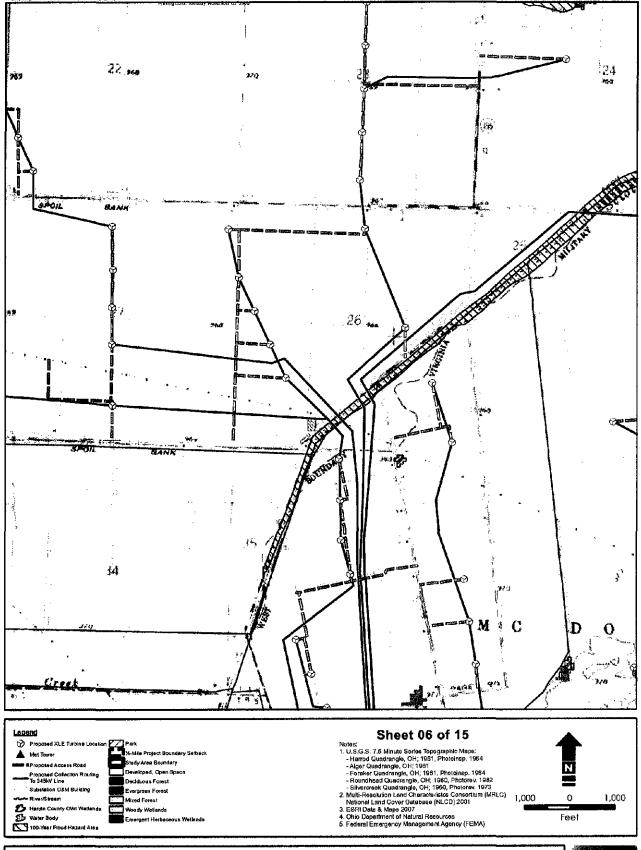




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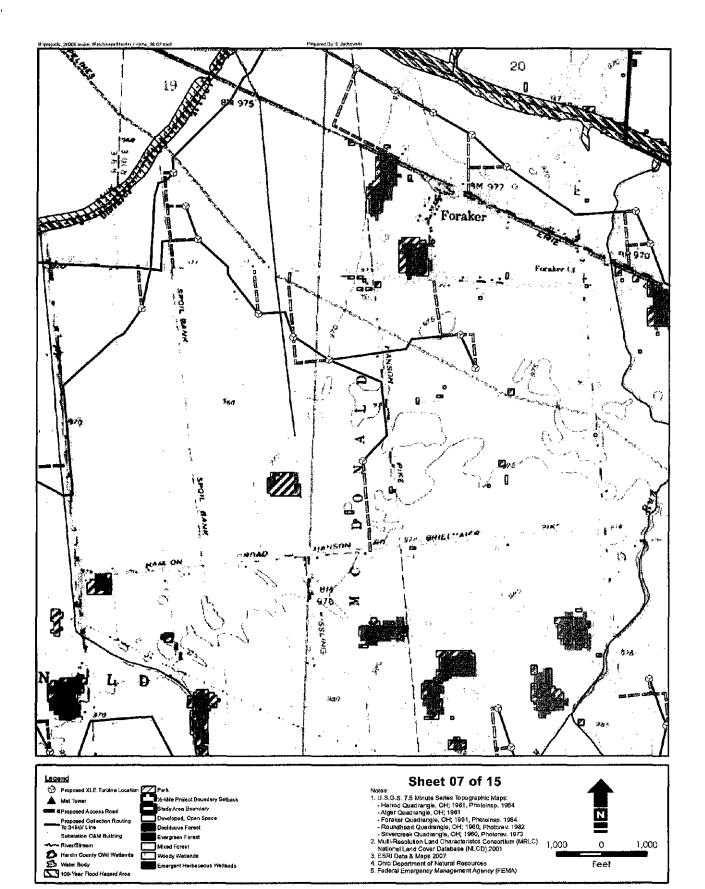




Hardin Wind Farm, Hardin County, Ohio

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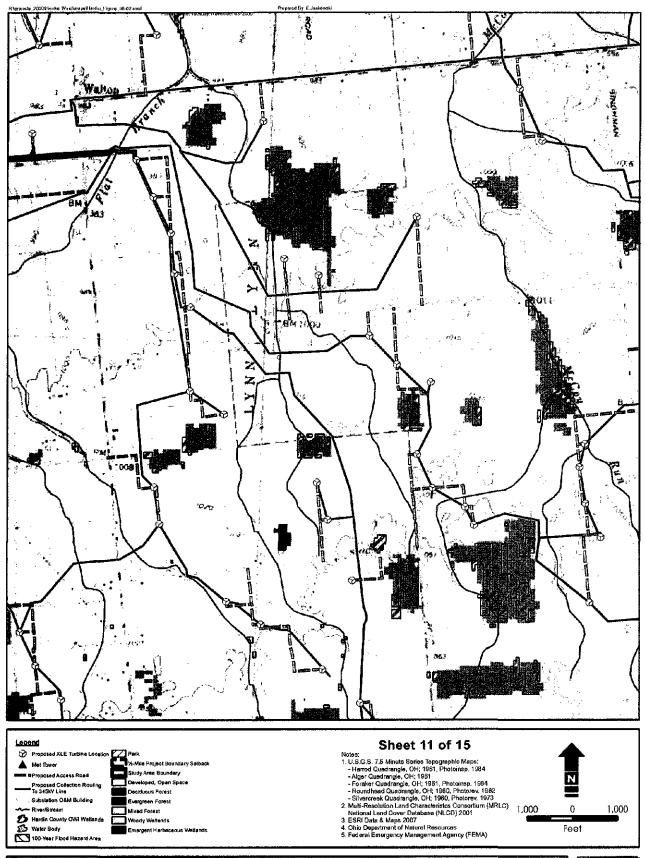




Hardin Wind Farm, Hardin County, Ohio



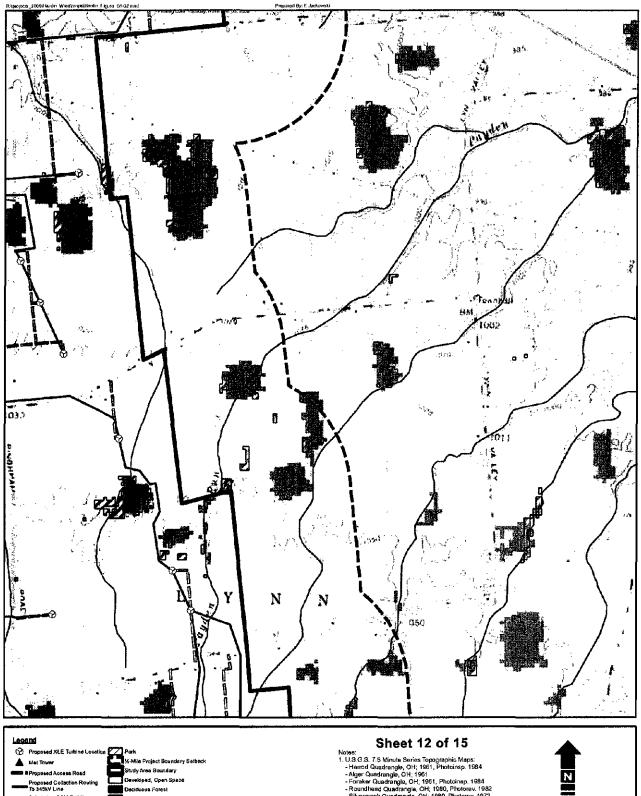
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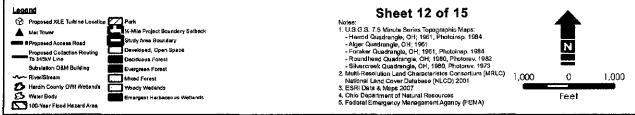


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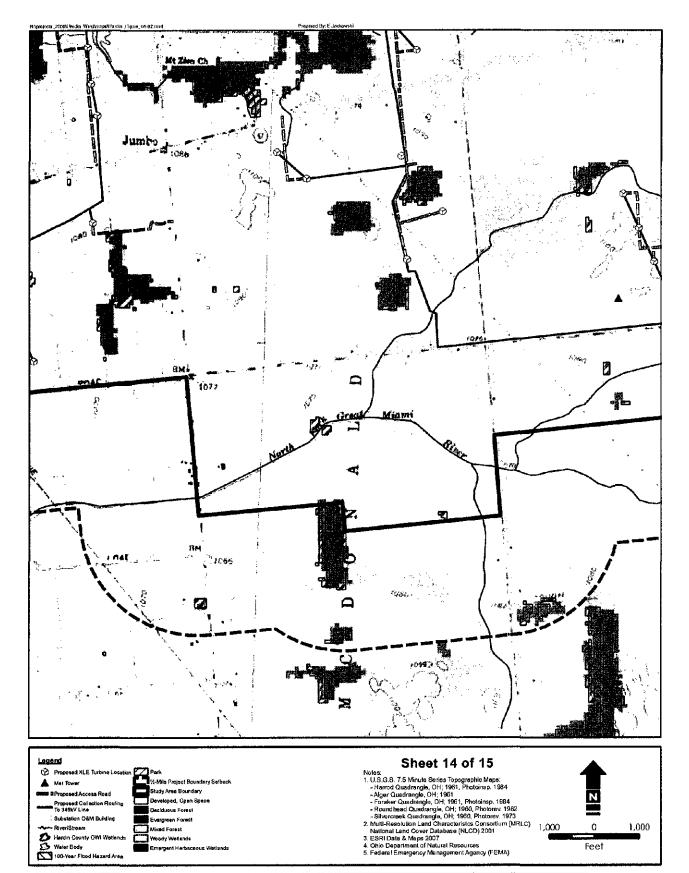




Hardin Wind Farm, Hardin County, Ohio

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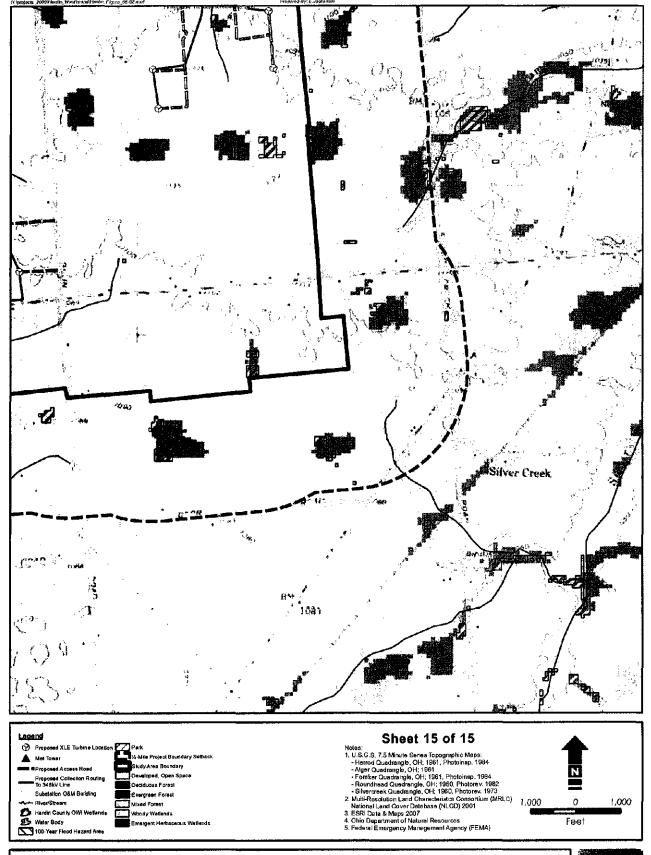




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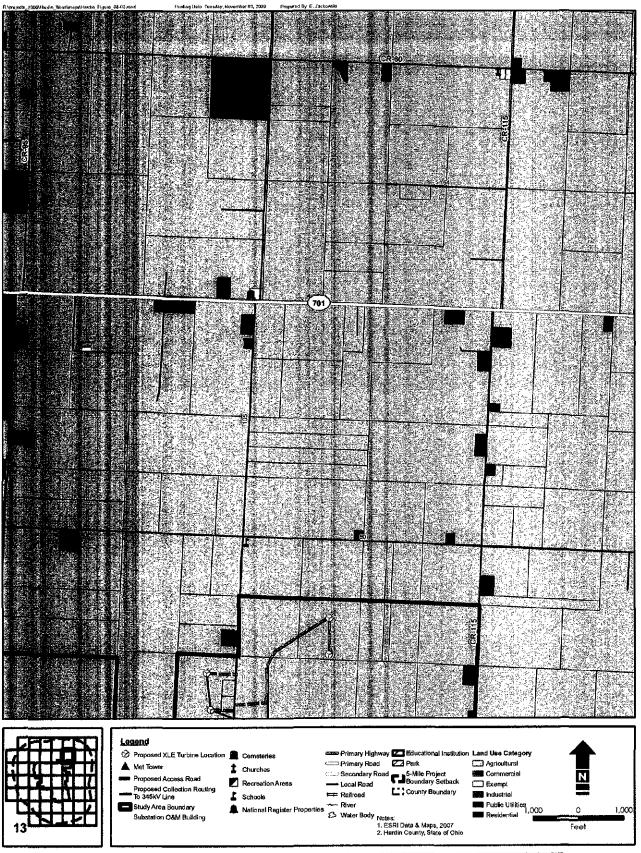




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Rev. 04 November 03, 2009

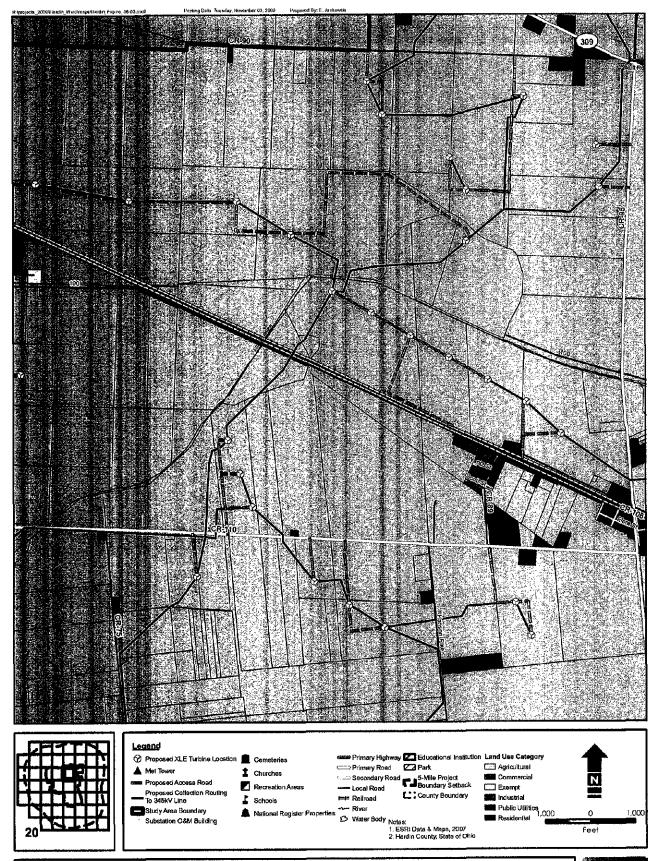




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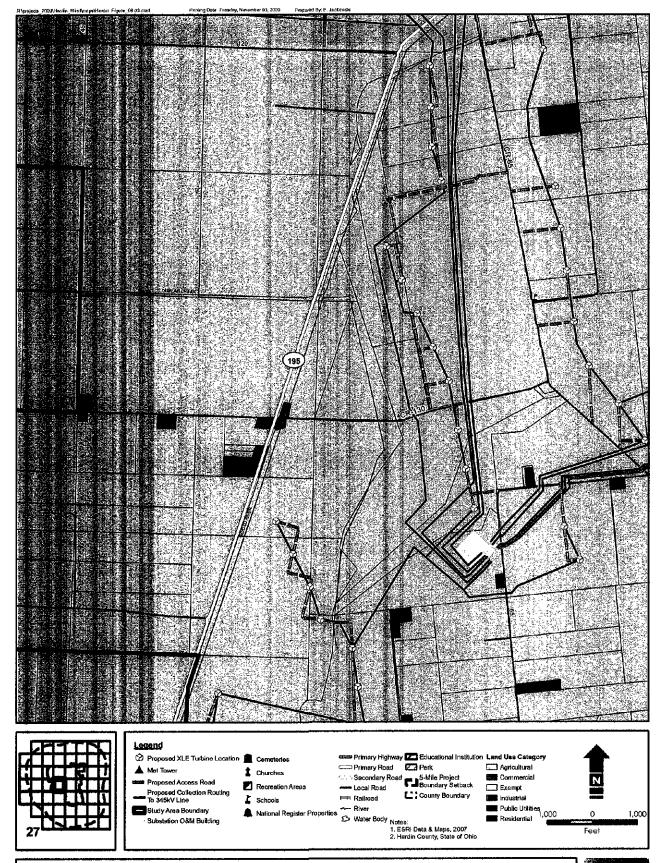




Hardin Wind Farm, Hardin County, Ohio

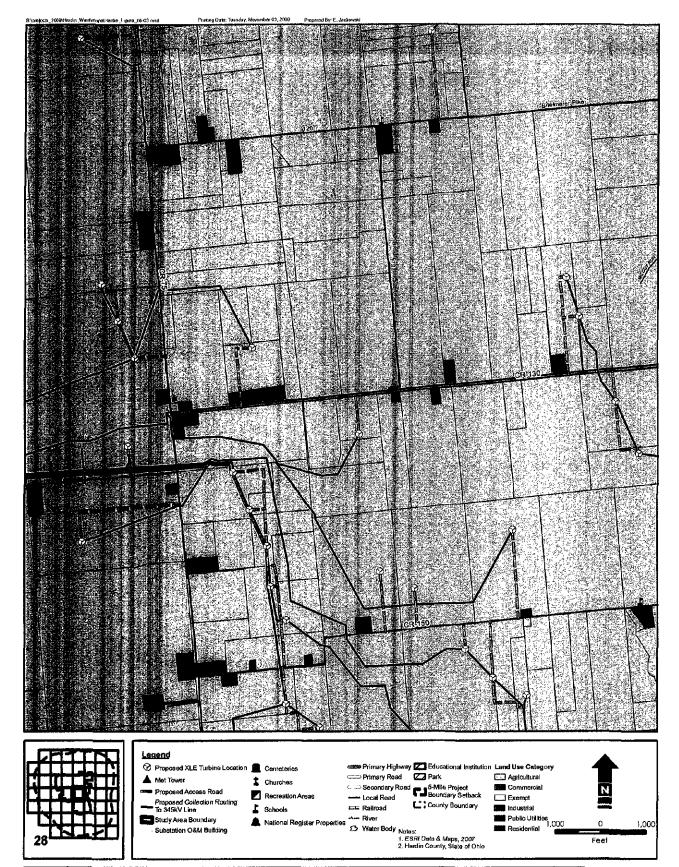
Rev. 04





Hardin Wind Farm, Hardin County, Ohio

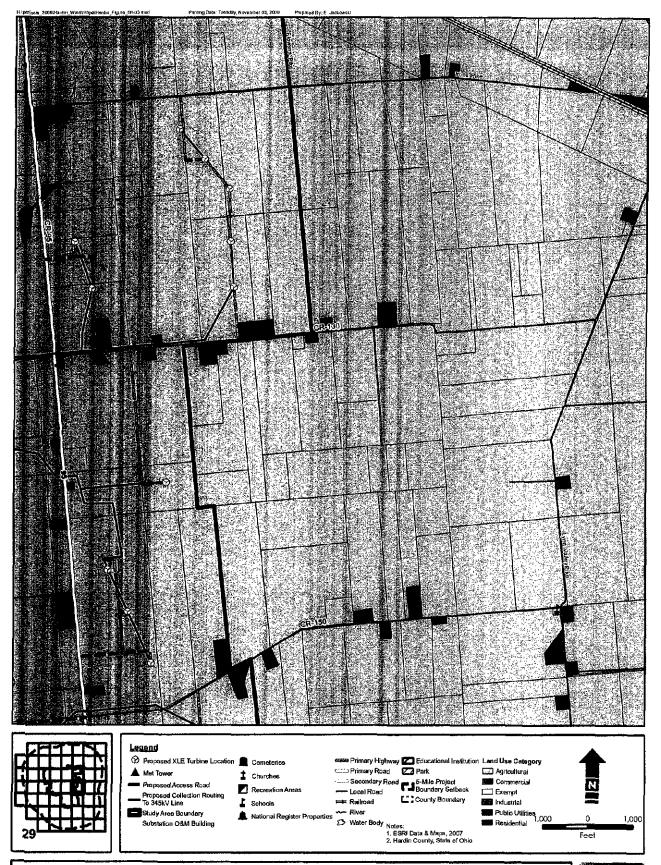




Hardin Wind Farm, Hardin County, Ohio

Rev. 04 November 03, 2009

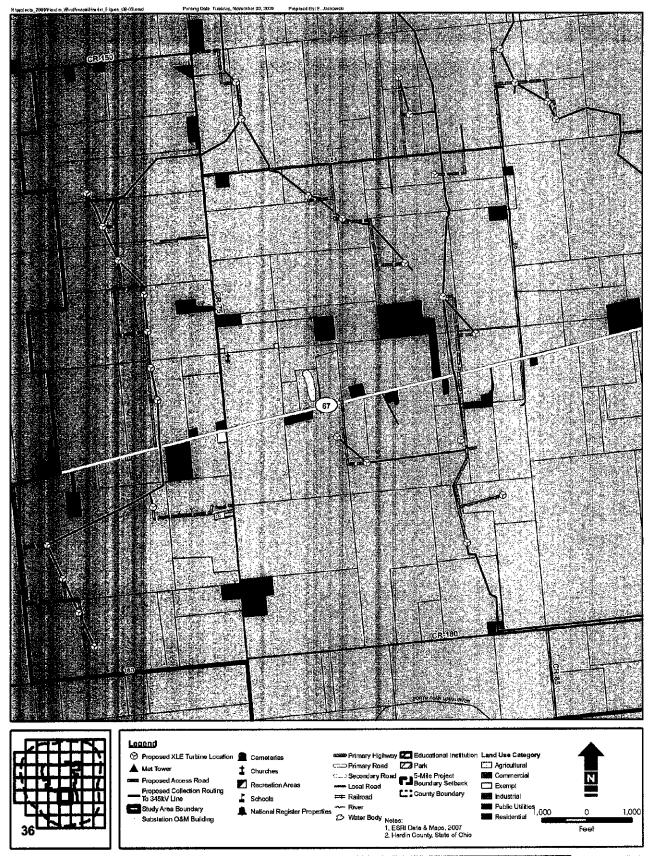




Hardin Wind Farm, Hardin County, Ohio

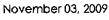
Rev. 04 November 03, 2009



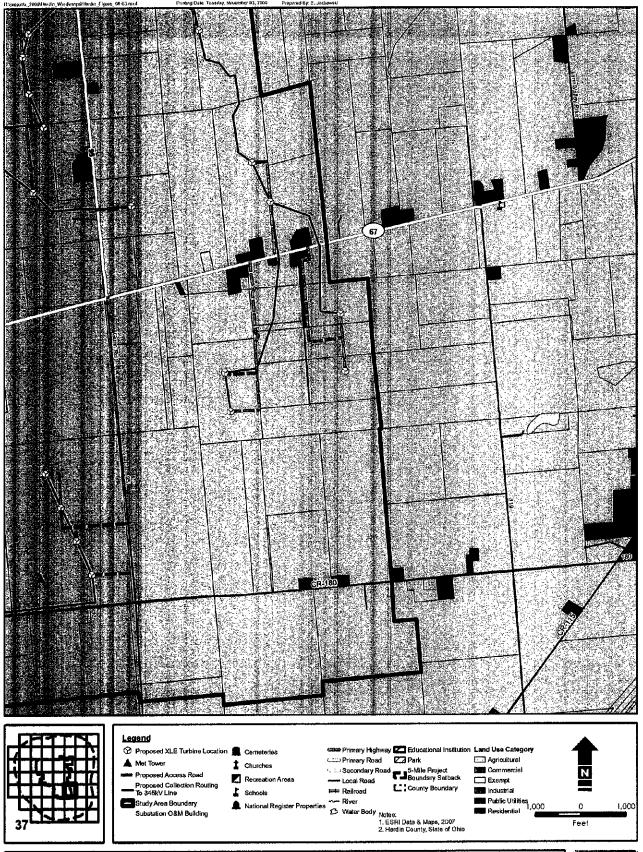


Hardin Wind Farm, Hardin County, Ohio

Rev. 0





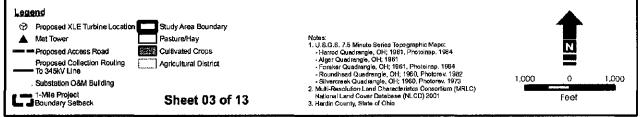


Hardin Wind Farm, Hardin County, Ohio

Rev. 04



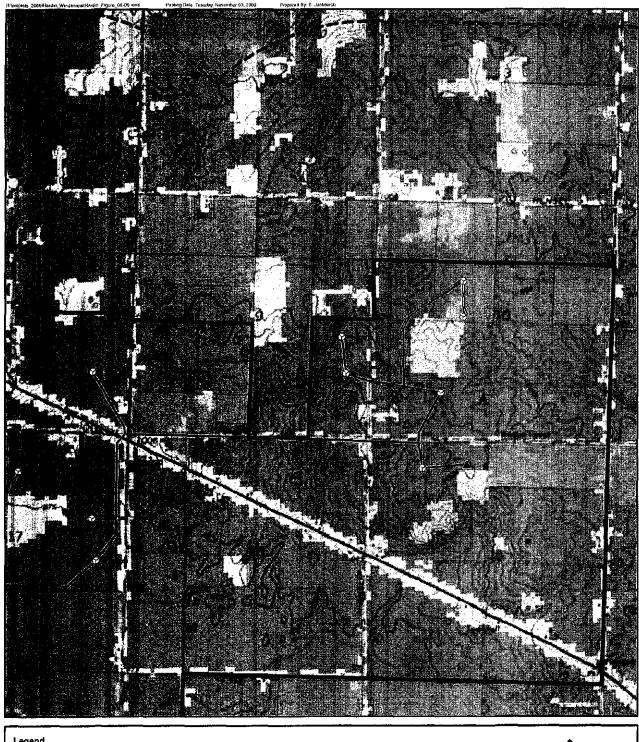


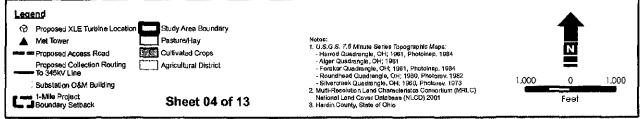


Hardin Wind Farm, Hardin County, Ohio

Rev. 04

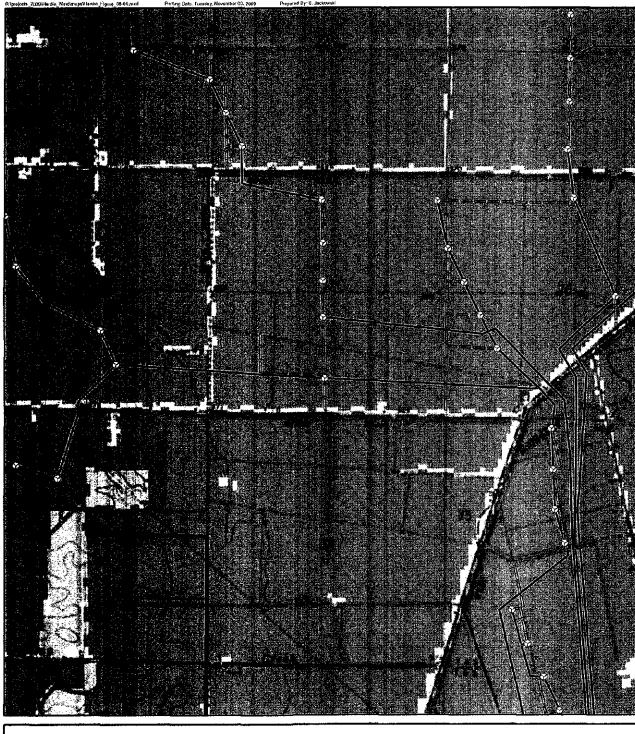


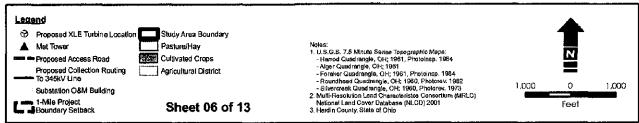




Hardin Wind Farm, Hardin County, Ohio

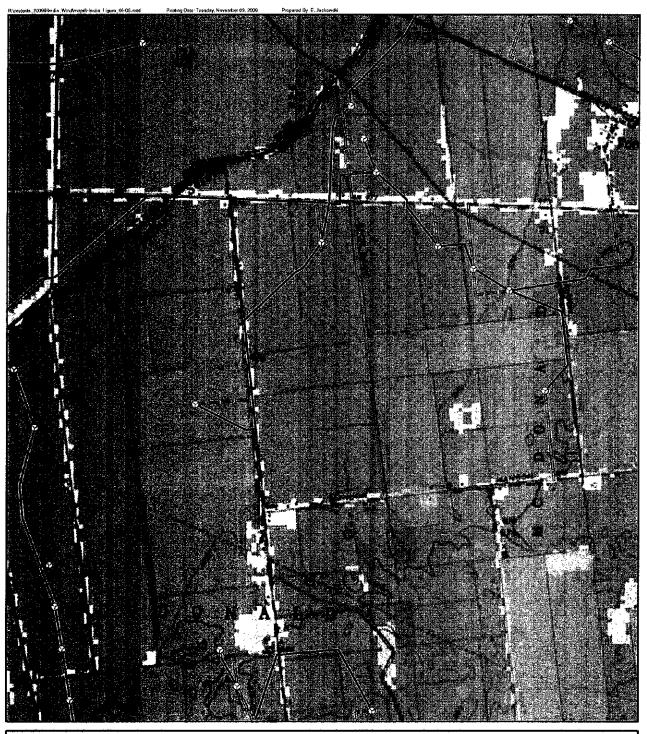


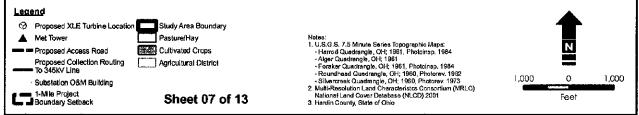




Hardin Wind Farm, Hardin County, Ohio

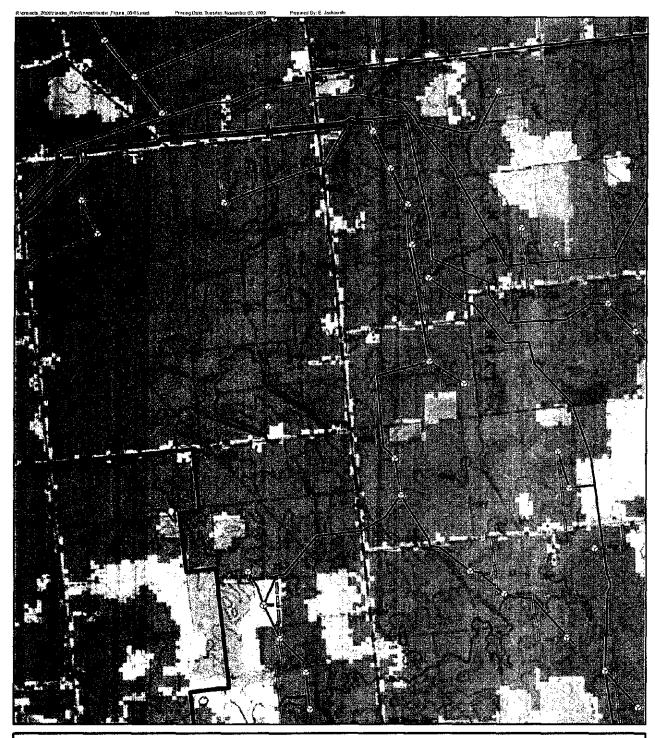


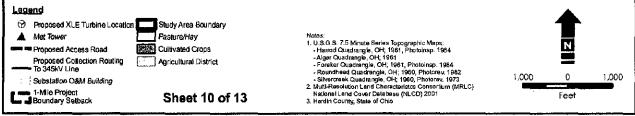




Hardin Wind Farm, Hardin County, Ohio



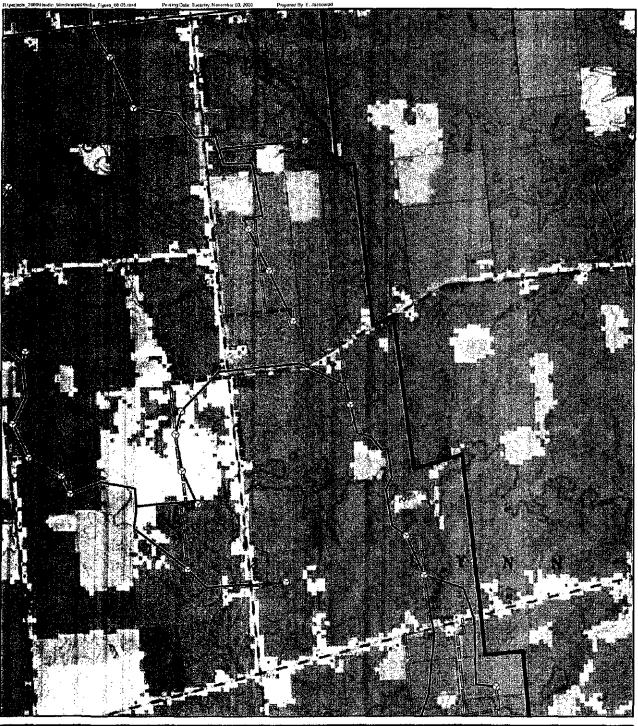


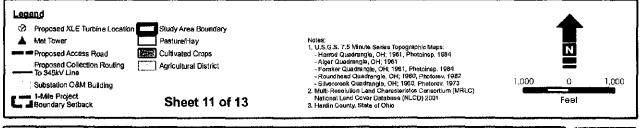


Hardin Wind Farm, Hardin County, Ohio

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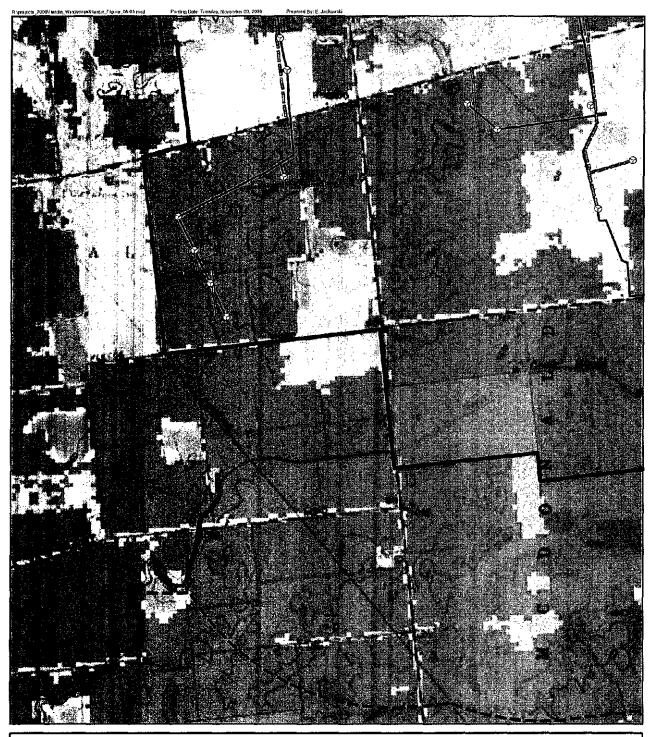


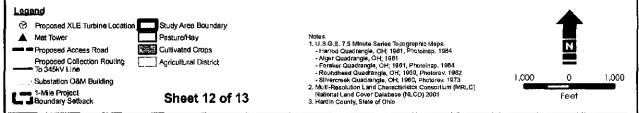




Hardin Wind Farm, Hardin County, Ohio







Hardin Wind Farm, Hardin County, Ohio

Rev. 04 November 03, 2009



# PROOF OF SERVICE OF UPDATE TO THE AMENDED APPLICATION ON LOCAL PUBLIC OFFICIALS AND LIBRARIES

The undersigned states that she caused a copy of the November 12, 2009 update to the accepted, complete amended application of Hardin Wind Energy LLC for a Certificate to Site a Wind-Powered Electric Generation Facility in Hardin County, Ohio ("Update") to be served on the chief executive officer of each municipal corporation, township and county, the heads of the public agencies charged with the duty of protecting the environment or land use planning, and local public libraries located in the area in which any portion of the project is to be located.

The same persons required by OAC Rule 4906-5-06 that were served a copy of Hardin Wind Energy, LLC's amended application were served a copy of the Update:

Mayor Gary Ritzler
City of Kenton
111 W. Franklin St.
Kenton, OH 43326

Mayor Dave Retterer Village of Ada 115 W. Buckeye Ave. Ada, OH 45810 Mayor Jerry Dicus Village of Alger 207 Angle St. Alger, OH 45812

Mayor Gary Conley Village of McGuffey 404 Courtright St. McGuffey, OH 45859

Lynn Township Trustees Attn: Thomas E. Sprang, Richard H. Wilcox, Steven M. Oglesbee 7087 County Road 110 Alger, OH 45812 Cessna Township Trustees Attn: Mike Ault, James Danner, Alan Long 7393 Township Rd. 89 Ada, OH 45810

Marion Township Trustees Attn: Leonard Guyton, Robert Preston, Robert Underwood 8315 State Road 195 Alger, OH 45812 Roundhead Township Trustees Attn: Gary Harpster, Michael Lautenschlager, James Lyle 15336 State Route 235 Belle Center, OH 43310 McDonald Township Trustees Attn: John Acheson, Rex Canfield, Darren Krock 7830 County Road 200 Belle Center, OH 43310

Taylor Creek Township Trustees Attn: Kenneth Kearns, Randy Rader, Larry Phillips 11694 County Road 190 Kenton, OH 43326

Hardin County Commissioners c/o Randy Paul, Clerk One Courthouse Square, Suite 100 Kenton, OH 43326 Mark Doll Hardin County Regional Planner One Courthouse Square Suite 130 Kenton, OH 43326

Mike Smith, P.E., P.S. Hardin County Engineer 1040 W. Franklin Street Kenton, OH 43326

Mary Lou Johnson Hardin County District Library 325 East Columbus Street Kenton, OH 43326 Alger Public Library 100 W. Wagner Alger, OH 45812-0018

Ada Public Library 320 N. Main St. Ada, OH 45810 A sample copy of the letter is attached as Exhibit 1.

A letter and courtesy copies of the Update were provided to the following:

Megan Seymour Wildlife Biologist US Fish & Wildlife Service 4625 Morse Road, Suite 104 Columbus OH 43230

Rebbeca Rutherford Chief of Ohio Section U.S. Army Corps of Engineers Huntington District Regulatory Branch (OR-F) 502 8th Street Huntington, WV 25701-2070

Hardin County Chamber and Business Alliance Attn: John Hohn, VP of Economic Development 225 South Detroit Street Kenton, Ohio 43326 Leonard Brown,
Deputy Director
ODOT District 1
1885 North McCullough St.

Lima, Ohio 45801

Allan Sisselman Chief of Ohio Section U.S. Army Corps of Engineers Buffalo District 1776 Niagara Street Buffalo, NY 14207-3199 Mike Blaich
Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meachum Blvd.
Forth Worth, TX 76137

Denise Marmer U.S. Army Corps of Engineers, Great Lakes & Ohio River Division 550 Main Street, Room 10032 Cincinnati, Ohio 45202-3222

A sample copy of the courtesy letter sent to these offices is attached as Exhibit 2.

The copies of the Update were sent by regular U.S. mail on November 11, 2009.

Respectfully submitted on behalf of HARDIN WIND ENERGY LLC

ally TV. Bloomfuld

Sally W Bloomfield
Matthew W. Warnock
BRICKER & ECKLER LLP

100 South Third Street

Columbus, OH 43215-4291 Telephone: (614) 227-2368; 227-2388

Facsimile: (614) 227-2390

E-Mail: sbloomfield@bricker.com

mwarnock@bricker.com

#### **CERTIFICATE OF SERVICE**

I hereby certify that the foregoing November 12, 2009 Update to the Amended Application was served upon the following parties of record via regular U.S. Mail this  $\underline{12}^{th}$  day of November 2009.

Dally W Bloomfield

Larry Gearhardt Chief Legal Counsel Ohio Farm Bureau Federation 280 North High Street P.O. Box 182383 Columbus, OH 43218-2383



COLUMBUS I CLEVELAND CINCINNATI-DAYTON

BRICKER & ECKLER LLP 100 South Third Street Columbus, Ohio 43215-4291 MAIN: 614.227.2300 FAX: 614.227.2390

www.bricker.com info@bricker.com

Sally W. Bloomfield 614,227,2368 sbloomfield@bricker.com November 11, 2009

Via Regular Mail

Mayor Gary Ritzler City of Kenton 111 W. Franklin St. Kenton, OH 43326

Re: Ohio Power Siting Board Application of Hardin Wind Energy LLC for a Certificate to Site a Wind-Powered Electric Generation Facility in Hardin County, Ohio – Case No. 09-479-EL-BGN

Dear Mayor Ritzler:

For your information, I am enclosing a document entitled an "Update to the Hardin Wind Energy LLC Amended Application to the Ohio Power Siting Board" dated November 12, 2009. On October 9, 2009, I sent you a copy of the accepted, complete Amended Application for a Certificate to Site a Wind-Powered Electric Generation Facility in Hardin County, Ohio for a 300 megawatt (MW) wind-powered electric generation facility in the western portion of Hardin County that will spread across 23,000 acres of leased land in Hardin County in portions of the townships of Lynn, Cessna, Marion, Roundhead, McDonald, and Taylor Creek.

This update contains a summary of updated figures in the Amended Application as well as updated maps for a portion of the Hardin Wind Energy LLC. In the Amended Application, ten turbine locations in the midst of other turbine locations were inadvertently omitted. This information along with the Amended Application gives the reader all the information about the proposed 203 turbine locations in the Project Area.

You may access all the filings in this case at the PUCO website at <a href="http://www.puc.state.oh.us/">http://www.puc.state.oh.us/</a> and then clicking on "DIS" on the left hand column of the homepage; once the Docket Information System screen appears, type the case number for the Hardin Wind Energy Amended Application, Case No. 09-479-EL-BGN, and follow the instructions to retrieve copies of filings.

If you have any questions, you may contact Nazre Adum of Hardin Wind Energy LLC at (301) 610-6417 or nadum@invenergyllc.com.

Sincerely,

Sally W. Bloomfield

Enclosure: Copy of Update

Sally W Bloomfuld



COLUMBUS I CLEVELAND CINCINNATI-DAYTON

BRICKER & ECKLER LLP 100 South Third Street Columbus, Ohio 43215-4291 MAIN: 614.227.2300 FAX: 614.227.2390

www.bricker.com info@bricker.com

Sally W. Bloomfield 614.227.2368 sbloomfield@bricker.com November 11, 2009

Ms. Megan Seymour Wildlife Biologist US Fish & Wildlife Service 4625 Morse Road, Suite 104 Columbus, OH 43230

Re: Ohio Power Siting Board Application of Hardin Wind Energy LLC for a Certificate to Site a Wind-Powered Electric Generation Facility in Hardin County, Ohio – Case No. 09-479-EL-BGN

Dear Ms. Seymour:

For your information, I am enclosing a courtesy copy of a document entitled "Update to the Hardin Wind Energy LLC Amended Application to the Ohio Power Siting Board" dated November 12, 2009. On October 9, 2009, I sent you a courtesy copy of the accepted, complete Amended Application for a Certificate to Site a Wind-Powered Electric Generation Facility in Hardin County, Ohio for a 300 megawatt (MW) wind-powered electric generation facility in the western portion of Hardin County that will spread across 23,000 acres of leased land in Hardin County in portions of the townships of Lynn, Cessna, Marion, Roundhead, McDonald, and Taylor Creek.

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Sincerely,

Sally W. Bloomfield

Enclosure: Copy of Update

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