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August 19, 2014

Mr. Darrell Nitschke  
Executive Director  
NORTH DAKOTA  
PUBLIC SERVICE COMMISSION  
600 East Boulevard, Dept. 408  
Bismarck, ND 58505-0480



Dear Mr. Nitschke:

In re: Antelope Hills Wind Project, LLC Ten-Year Plan  
Antelope Hills Wind Energy Project  
Our File No. 48-357-001

On behalf of Antelope Hills Wind Project, LLC (“Antelope Hill”), we hereby submit ten copies of Antelope Hill’s Ten-Year Plan for the Antelope Hills Wind Energy Project pursuant to North Dakota Century Code § 49-22-04 and North Dakota Administrative Code Chapter 69-06-02.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "B. Bjella", with a long horizontal line extending to the right.

BRIAN R. BJELLA

bw  
Enc.  
Ten-Year Plan to:  
County Auditors:  
Mercer County  
Casey Willis  
Notice to:  
State Agencies and Officers designated in  
§ 69-06-01-05, N.D. Adm. Code.

**TEN YEAR PLAN: 2014 THROUGH 2024  
ANTELOPE HILLS WIND PROJECT, LLC**

Pursuant to Section 49-22-04 of the North Dakota Century Code (“NDCC”) and Chapter 69-06-02 of the North Dakota Administrative Code, Antelope Hills Wind Project, LLC ("Antelope Hills") submits to the North Dakota Public Service Commission the following Ten Year Plan for years 2014 through 2024.

**§49-22-04 (1): A description of the general location, size, and type of all facilities to be owned or operated by the utility during the ensuing ten years, as well as those facilities to be removed from service during the ten year period.**

Antelope Hills is managed by Infinity Wind Power, LLC (“Company”). Antelope Hills contemplates operating a wind energy project with a total nameplate capacity of up to 172 megawatts (“MW”). The project is proposed to be located on land in Mercer County, North Dakota. The project is targeted to be operational by the end of 2015. The infrastructure for the project would consist of 75-102 wind turbine generators, up to two (2) permanent meteorological towers, buried 34.5 kV electrical collection lines, a project substation, an operations and maintenance facility, and an approximately nine (9) mile long 345 kV transmission line.

The Company does not anticipate the removal of these facilities during the ten year period.

**§49-22-04 (2): An identification of the location of the tentative preferred site for all energy conversion facilities and the tentative location of all transmission facilities on which construction is intended to be commenced with the ensuing five years and such other information as may be required by the commission. The site and corridor identification shall be made in compliance with the criteria published by the commission pursuant to section 49-22-05.1.**

The Antelope Hills Wind Project is proposed to be located on the west side of Mercer County. The town of Golden Valley is located approximately 8 miles to the south, while the town of Beulah is located approximately 12 miles to the southeast.

The Company has no firm plans for additional development beyond what is outlined in this filing.

**§49-22-04 (3): A description of the efforts by the utility to coordinate the plan with other utilities so as to provide a coordinated regional plan for meeting the utility needs of the region.**

In 2010, Antelope Hills submitted an interconnection request to inject up to 172.5 MW onto the Western/Basin integrated system at the Antelope Valley Station. The interconnection point at the Antelope Valley Station is located to the southeast of the project. Basin completed the Feasibility Study for the project in May of 2013, the System Impact Study in September of 2013, and the Facilities Study in June of 2014. Antelope Hills expects to sign a Larger Generator Interconnection Agreement (“LGIA”) by September of 2014.

Antelope Hills would own a substation on the project site and an approximately nine (9) mile long 345 kV transmission line that will connect at a new switchyard at the Antelope Valley Station. Antelope Hills signed a power purchase agreement with Basin Electric in the fall of 2013.

**§49-22-04 (4): A description of the efforts to involve environmental protection and land-use planning agencies in the planning process, as well as other efforts to**

**identify and minimize environmental problems at the earliest possible stage in the planning process.**

During the development of the Antelope Hills Wind Project, the Company has engaged the services of Western Ecosystems Technology, Inc. (“WEST”) and Tetra Tech, Inc. (“Tetra Tech”) to complete required biological, environmental, and land use studies for the project. The company has consulted with, or intends to consult with, the following agencies related to governmental authorizations that may be required for the project.

- Federal Aviation Administration
- United State Army Corps of Engineers
- United States Fish and Wildlife Service
- United States Environmental Protection Agency
- North Dakota Public Services Commission
- North Dakota Department of Health
- North Dakota Department of Transportation
- North Dakota State Historic Preservation Office
- North Dakota Department of Game and Fish
- Mercer County

The Company has incorporated minimization and avoidance measures into the project’s design based on the biological and environmental studies completed to date. The intention of the project is to minimize environmental impacts to greatest degree possible while maximizing the efficiencies of the project. Baseline biological surveys were initiated by WEST in the fall of 2013 based on guidance outlined in the USFWS’s *Wind Energy Guidelines*. The baseline environmental surveys are focused on evaluating avian and bat use as well as assessing for the presence or absence of sensitive species. Additional field work is currently underway to assess for the presence of cultural resources. The results of these studies will be incorporated into the design of the project to minimize or avoid impacts to the applicable resource.

**§49-22-04 (5): A statement of the projected demand for the service rendered by the utility for the ensuing ten years and the underlying assumptions for the project, with that information being as geographically specific as possible, and a description of the manner and extent to which the utility will meet the projected demands.**

The Company plans to sell the energy produced by the Antelope Hills Wind Project to Basin Electric pursuant to the power purchase agreement that was signed for the Project.

In addition, a regional need exists for renewable energy produced in North Dakota. Eleven of the MISO states currently have renewable portfolio standards. According to the MISO Transmission Expansion Plan for 2012, the MISO region needs to add between 4,484 and 11,290 MW of new capacity or 3,865 and 9,733 MW of demand reduction to meet the minimum Planning Reserve Margins in 2022. 9,912 MW of retirements are assumed to occur from 2015 onward due to EPA regulations. Depending on the projection scenario, MISO assumes anywhere from 13 to 60 GW of incremental wind penetration. Seventeen Multi-Value Projects have been integrated into MISO planning models, which will relieve a major part of MISO’s internal future congestion and deliver wind energy more efficiency.

Within North Dakota, the expansion of oil and gas operations within the Bakken Formation is anticipated to significantly increase future load growth. In 2012, the North Dakota Transmission Authority commissioned a study to forecast future load growth demands due to the increased development in the Bakken Formation over a 20 year period. Based on modeled load growth projections, North Dakota alone

is expected to need an additional 1,830 MW by 2017, 2400 MW by 2022, 2,769 MW by 2027, and 3,030 MW by 2032.

Given Antelope Hills's location within North Dakota, energy generated from the project can be utilized to meet future load growth projections within the region. Thus, the renewable energy that may be produced by the Antelope Hills Wind Project will help meet the significant regional need for renewable energy.



Al Anderson, Commissioner  
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Honorable Jack Dalrymple  
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State Health Officer  
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Executive Director  
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State Geologist  
NORTH DAKOTA INDUSTRIAL COMMISSION  
Geological Survey  
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Bonnie Storbakken, Commissioner  
ND DEPT. OF LABOR DEPARTMENT  
AND HUMAN RIGHTS  
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Mark Zimmerman, Director  
PARKS AND RECREATION DEPARTMENT  
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Soil Conservation Specialist  
SOIL CONSERVATION COMMITTEE  
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Bismarck, ND 58505-0850

Commander  
UNITED STATES DEPARTMENT OF DEFENSE  
MINOT AIR FORCE BASE  
201 Summit Drive  
Minot, ND 58701

UNITED STATES FISH AND WILDLIFE SERVICE  
3425 Miriam Avenue  
Bismarck, ND 58501

UNITED STATES ARMY CORPS OF ENGINEERS  
1513 South 12<sup>th</sup> Street  
Bismarck, ND 58504


FEDERAL AVIATION ADMINISTRATION  
Bismarck Airports District Office, BIS-ADO-600  
2301 University Drive, Building 23B  
Bismarck, ND 58504

NORTH DAKOTA TRANSMISSION AUTHORITY  
c/o North Dakota Industrial Commission  
600 E. Boulevard Ave., Dept. 405  
State Capitol, 14<sup>th</sup> Floor  
Bismarck, ND 58505-0840


NORTH DAKOTA PIPELINE AUTHORITY  
c/o North Dakota Industrial Commission  
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State Capitol, 14<sup>th</sup> Floor  
Bismarck, ND 58505-0840

MERCER COUNTY COMMISSION  
PO Box 39  
Stanton, ND 58571

That she knew the persons served to be the persons named in the papers served and the persons intended to be served.

  
Beth Wald

Subscribed and sworn to before me this 19<sup>th</sup> day of August, 2014.

  
Leslie Kriedeman, Notary Public  
Burleigh County, North Dakota  
My Commission Expires:

