

June 25, 2020

VIA E-MAIL

Mr. Steven Kahl
Executive Secretary
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

**RE: Prosperity Wind Farm, LLC's Ten Year Plan for 2020-2030
Case No. PU-20-_____**

Dear Mr. Kahl:

Attached for filing are electronic copies of the following documents:

1. Prosperity Wind Farm, LLC's Ten Year Plan: 2020-2030;
2. Notice of Filing Ten Year Plan: 2020-2030; and
3. Certificate of Service.

If you have any questions, please let me know.

Sincerely,



MOLLIE M. SMITH

MMS/bd
Enclosures

cc: Melissa Schmit (w/ encl., via e-mail)

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TEN YEAR PLAN: 2020-2030
Prosperity Wind Farm, LLC

June 2020

In accordance with N.D.C.C. § 49-22-04 and N.D.A.C. Ch. 69-06-02, Prosperity Wind Farm, LLC (“Prosperity”) submits the following Ten Year Plan for years 2020 through 2030.

- (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.*

Prosperity is proposing to develop and construct an up to 400 MW wind energy conversion facility known as the Prosperity Wind Farm. The Project will be located approximately 25 miles west of Fargo in Cass County, North Dakota. The Project will consist of wind turbine generators, access roads, an electrical collection system, an O&M building, and a project substation.

Prosperity does not currently have any facilities within North Dakota and, therefore, has no plans to decommission any facilities. The Project will have an estimated life of greater than 10 years. As such, Prosperity does not have any plans to decommission any proposed facilities within the timeframe of this plan.

- (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 within 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 Project will be located west of Fargo and approximately 11 miles northwest of Casselton in western Cass County, North Dakota. A map of the proposed site for the Project is provided in **Exhibit A**, attached hereto. The Project will be designed so as to comply with the exclusion and avoidance areas referenced in Section 49-22-05.1 of the North Dakota Century Code and identified in Sections 69-06-08-01 of the North Dakota Administrative Code.

- (3) *A description of the efforts by the utility to coordinate the plan with other utilities to provide a coordinated regional plan for meeting the utility needs of the region.*

Throughout the development of the Project, Prosperity has coordinated and will continue to coordinate with the Midcontinent Independent Transmission System Operator (“MISO”), the local transmission owner, Xcel Energy, and the local electrical cooperatives regarding the Projects.

In June of 2020, Prosperity submitted an interconnection application to MISO for interconnection of a 400 MW wind farm at the Bison Substation. Prosperity’s

Interconnection Application was filed per the MISO Business Practice Manual 015 for Generator Interconnection. Prosperity's Interconnection Application and MISO's administration of the application are consistent with MISO's Open Access Transmission, Energy and Operating Reserves Market Tariff, and the operating policies of the Midwest Reliability Organization designed to facilitate the administration of efficient energy markets.

- (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.*

Prosperity has utilized, and will continue to utilize, internal environmental personnel, as well as external environmental consultants, to conduct studies and analyses of the Project to ensure it will comply with the siting criteria set forth in Chapter 49-22 of the North Dakota Century Code, as well as Section 69-06-08-01 of the North Dakota Administrative Code. Additionally, Prosperity has consulted and will continue to consult with applicable state and federal agencies to avoid, minimize, and/or mitigate any impacts to the environment from the construction and operation of the Project. Prosperity has been and will continue to work with Cass County and the associated townships to ensure conformance with local land use regulations.

- (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 projection, 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.*

Prosperity is proposing to construct this facility to sell energy, capacity and renewable energy credits ("RECs"), either bundled or unbundled, to one or more electric utilities and/or commercial customers. Prosperity is actively marketing the Project to a number of potential off-takers and may sell the power in the form of power purchase agreements ("PPAs"), or the Project could be owned directly by a utility.

As an independent power producer, Prosperity is not limited to the needs of one region and is able to bid into multiple wholesale markets across the region. For example, over the past year, Prosperity was eligible to bid into multiple corporate/industrial power supply proposal requests in the region. Utilities and other customers seeking to diversify and build their energy generation portfolios are attracted to wind energy projects because of long-term, fixed, competitive pricing, environmental benefits and existing and potential renewable energy policies.

Renewable Energy Policies

In 2007, the North Dakota Legislature enacted a statutory provision adopting the national "25x'25" initiative, which establishes a goal of having not less than

twenty-five percent of the total energy consumed within the United States come from renewable resources by January 1, 2025.¹ Additional renewable resources will be needed to meet the 25x'25 initiative.

A need also exists for renewable energy produced in North Dakota to meet state renewable portfolio standards. Eleven of the MISO states currently have either mandated or voluntary renewable portfolio standards or policies.² North Dakota is proximate to some of these other jurisdictions that have renewable policies. Minnesota, in particular, has a standard that requires Xcel Energy to obtain 30% of its energy from renewables by 2020, and all other utilities to obtain 25% of their energy from renewables by 2025.³ Under current state standards, total United States renewable portfolio standard demand will increase from 310 terawatt hours (“TWh”) in 2019 to 600 TWh in 2030.⁴ Given existing renewable energy capacity, an additional 230 TWh increase in renewable resources will be required to meet demand through 2030.⁵ In addition, the regional transmission grid is being expanded to deliver wind generation in a cost-effective manner; specifically, MISO’s Multi-Value Project (“MVP”) Portfolio enables 41 million megawatt hours (“MWh”) of wind energy per year to meet renewable energy mandates and goals.⁶

Economic Energy and Capacity

In 2010, the North Dakota Department of Commerce, EmPower ND Commission, published the Comprehensive State Energy Policy 2010-2025, which recommended a capacity of wind generation up to 5,000 MW by 2020.⁷ The state had a total of 3,155 MW of installed wind capacity at the end of 2018.⁸

With improving technology and falling costs, utilities are beginning to include renewable energy projects in their resource plans as long-term economic energy and capacity resources. In North Dakota, excellent wind resources create high

¹ See N.D.C.C. § 17-01-01.

² *MTEP18 MISO Transmission Enhancement Plan*, at 182.

³ Minn. Stat. § 216B.1691.

⁴ Lawrence Berkeley National Laboratory, *U.S. Renewable Portfolio Standards 2019 Annual Status Report* (July 2019), at 24.

⁵ *Id.* at 26.

⁶ *MTEP18 MISO Transmission Enhancement Plan*, at 42.

⁷ North Dakota Department of Commerce. Undated. EmPower North Dakota. Comprehensive State Energy Policy 2010-2025. Accessed online June 1, 2020. Retrieved from <https://commerce.nd.gov/>.

⁸ U.S. Department of Energy. 2018. 2018 Wind Technologies Market Report. Accessed online June 1, 2020. Retrieved from <https://www.energy.gov/eere/wind/downloads/2018-wind-technologies-market-report>.

capacity factor generation, reducing the cost/MWh. In general, alternative energy sources provide lower costs per MW-hour than conventional sources.⁹

Commercial and Industrial Demand

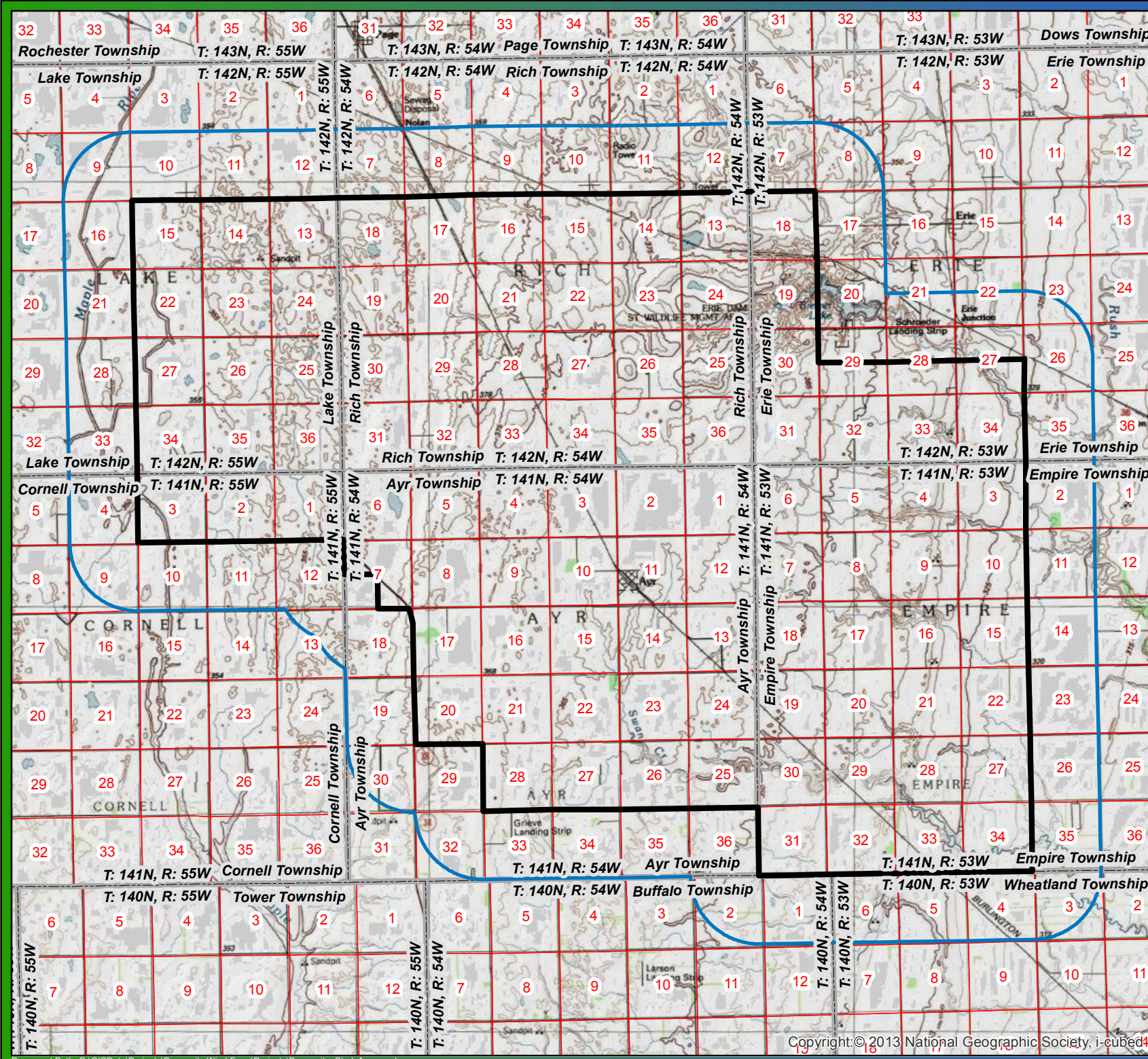
In addition to traditional utility demand for wind energy, a growing number of corporations are turning to renewable energy to save money on energy and meet sustainability goals. Corporate customers either purchase renewable energy directly or obtain renewable benefits and cost savings through financially settled contracts, sometimes called virtual PPAs. In addition, many utilities are creating “green tariffs,” which allow customers to purchase up to 100% renewable energy from the utility.

Beyond the growing demand from utilities, non-traditional power buyers, such as Google, IKEA, Apple, eBay, Facebook, General Motors, Johnson & Johnson, Kellogg’s, Microsoft, Nike, and Wal-Mart, have announced plans to purchase renewable energy. In fact, over 6.53 gigawatts (“GW”) of renewable energy have been purchased by non-utilities as of the end of 2018.¹⁰ That compares to 2.78 GW procured by non-utilities in 2017 and approximately 1.73 GW in 2016. These businesses have a rapidly growing appetite for affordable clean energy, and North Dakota wind is poised to help meet that demand.





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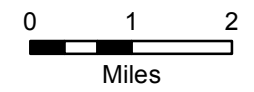
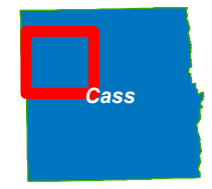
⁹ Lazard, *Lazard’s Levelized Cost of Energy Analysis – Version 13.0* (November 2019), at 2.

¹⁰ Advanced Energy Economy, *Corporate Renewable Deals 2014-2018*, available at <https://businessrenewables.org/corporate-transactions/>.



Prosperity Wind

-  Prosperity Wind Study Area (1mi)
-  Prosperity Wind Project Area
-  Township/Range
-  Sections



STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

**IN THE MATTER OF THE FILING OF A
TEN YEAR PLAN BY PROSPERITY WIND
FARM, LLC**


Case No. PU-20-____

**NOTICE OF FILING TEN YEAR PLAN
2020-2030**

PLEASE TAKE NOTICE that Prosperity Wind Farm, LLC, in accordance with N.D.C.C. § 49-22-04 and N.D.A.C. Ch. 69-06-02, filed a Ten Year Plan for the years 2020 through 2030 with the North Dakota Public Service Commission on June 25, 2020, and the Cass County Auditor on June 25, 2020.

Dated this 25th day of June, 2020.

FREDRIKSON & BYRON, P.A.

By 
MOLLIE M. SMITH, ND Bar #06714
Attorney for Prosperity Wind Farm, LLC
200 South Sixth Street, Suite 4000
Minneapolis, MN 55402-1425
(612) 492-7270

CERTIFICATE OF SERVICE

I, the undersigned, hereby certify that a true and correct copy of the following document:

NOTICE OF FILING TEN-YEAR PLAN: 2020-2030

was served on the 25th day of June, 2020 by placing the same in the United States mail, postage prepaid, properly addressed to the following:

North Dakota Aeronautics Commission
P.O. Box 5020
Bismarck, ND 58502-5020

North Dakota Office of Attorney General
600 E. Boulevard Ave.
Dept. 125
Bismarck, ND 58505

North Dakota Department of Agriculture
600 E. Boulevard Ave.
Dept. 602
Bismarck, ND 58505-0020

North Dakota Department of Health
600 E. Boulevard Ave.
Bismarck, ND 58505-0200

North Dakota Department of Human Services
600 E. Boulevard Ave.
Dept. 325
Bismarck, ND 58505-0250

North Dakota Department of Labor and Human Rights
600 E. Boulevard Ave.
Dept. 406, Room 107
Bismarck, ND 58505-0340

North Dakota Department of Career and Technical Education
State Capitol, 15th Floor
600 E. Boulevard Ave.
Bismarck, ND 58505-0610

North Dakota Department of Commerce
1600 E. Century Ave., Suite 2
P.O. Box 2057
Bismarck, ND 58503

Energy Infrastructure and Impact Office
North Dakota Department of Trust Lands
1707 North 9th Street
P.O. Box 5523
Bismarck, ND 58506-5523

North Dakota Game and Fish Department
100 N. Bismarck Expressway
Bismarck, ND 58501-5095

North Dakota Industrial Commission
State Capitol, 14th Floor
600 East Boulevard Ave., Dept. 405
Bismarck, ND 58505-0840

Office of Governor Doug Burgum
State of North Dakota
600 E. Boulevard Ave.
Bismarck, ND 58505-0001

North Dakota Department of Transportation
608 E. Boulevard Ave.
Bismarck, ND 58505-0700

State Historical Society of North Dakota
612 E. Boulevard Ave.
Bismarck, ND 58505-0830

North Dakota Indian Affairs Commission
State Capitol Building
600 E. Boulevard Ave.
1st Floor - Judicial Wing, Rm. #117
Bismarck, ND 58505-0300

Job Service North Dakota
P.O. Box 5507
Bismarck, ND 58506-5507

North Dakota Department of Trust Lands
1707 North 9th Street
P.O. Box 5523
Bismarck, ND 58506-5523

North Dakota Parks and Recreation Department
Century Center
1600 E. Century Ave., Suite 3
PO Box 5594
Bismarck, ND 58506-5594

North Dakota State Soil Conservation Committee
c/o NDSU Extension Service
2718 Gateway Ave., Suite 304
Bismarck, ND 58503

North Dakota State Water Commission
900 E. Boulevard Ave., Dept. 770
Bismarck, ND 58505-0850

United States Department of Defense
1400 Defense Pentagon
Washington, DC 20301-1400

United States Fish and Wildlife Service
North Dakota Field Office
3425 Miriam Avenue
Bismarck, ND 58501-7926


United States Army Corps of Engineers
North Dakota Regulatory Office
3319 University Drive
Bismarck, ND 58504

Federal Aviation Administration
United States Department of Transportation
800 Independence Ave. SW
Washington, DC 20591

North Dakota Transmission Authority
c/o North Dakota Industrial Commission
State Capitol 14th Floor
600 E. Boulevard Ave., Dept. 405
Bismarck, ND 58505-0840

North Dakota Pipeline Authority
c/o North Dakota Industrial Commission
State Capitol 14th Floor
600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Cass County Commission
PO Box 2806
Fargo, ND 58108-2806



MOLLIE M. SMITH

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STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

**IN THE MATTER OF THE FILING OF A
TEN YEAR PLAN BY PROSPERITY WIND
FARM, LLC**

Case No. PU-20-____

CERTIFICATE OF SERVICE

Mollie M. Smith, being first duly sworn, does depose and state that on June 25, 2020, she served the following document:

Ten Year Plan: 2020-2030

by placing a true and correct copy of said document in an envelope addressed as follows:

Mr. Michael Montplaisir
Cass County Auditor
P.O. Box 2806
Fargo, ND 58108-2806

and depositing the same, with postage prepaid, in the United States mail at Minneapolis, Minnesota.



Mollie M. Smith
Mollie M. Smith