



414 Nicollet Mall
Minneapolis, MN 55401

February 14, 2025

—Via Electronic Filing—

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: BIENNIUM AND 2024 LEGISLATIVE REPORT
DOCKET NOS. E002/M-00-1583, E002/M-03-1883, E002/M-07-675 AND
E002/M-12-1278

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Biennial Report pursuant to the Minnesota Public Utilities Commission's April 20, 2001 Order and the 2024 Annual Report to the Minnesota State Legislature pursuant to Minn Stat. § 116C.779.

Consistent with last year, the Company provides a streamlined and more organized report due to the fewer number of active RDF grant projects currently in progress (Cycle 4 projects remain). The reformatted report provides historical and trending data for the RDF account. For this reason, and because the Company provides significant information about the status of the RDF in its annual rate rider and the quarterly reports about the ongoing grant funded projects, the Company believes that providing one concise document rather than individual Biennial and Legislative reports provides useful information for both the Commission and the Legislature.

We have electronically filed this document with the Minnesota Public Utilities Commission and a copy provided to the Chairs and Ranking Minority Members of

the legislative committees with jurisdiction over energy policy on projects funded by the RDA and copies have been served on the parties on the attached service list.

If you have any questions regarding this filing, please contact me at gail.baranko@xcelenergy.com or (612) 330-6935.

Sincerely,

/s/

GAIL BARANKO
MANAGER, REGULATORY ADMINISTRATION

Enclosures

cc: Service Lists

Rep. Patty Acomb

Rep. Chris Swedzinski

Sen. Nick Frentz

Sen. Andrew Mathews

Xcel Energy
Renewable Development Fund (RDF)

**Annual Report to the Minnesota State Legislature
and Minnesota Public Utilities Commission**

February 14, 2025

I. BACKGROUND

The Renewable Development Fund (RDF) program was first authorized by the Minnesota Legislature in 1994 alongside legislation regarding the Prairie Island nuclear generating plant in Red Wing, Minnesota. As a condition of storing spent nuclear fuel in dry casks at Prairie Island, the RDF statute required Xcel Energy to transfer \$500,000 per year for each dry cask containing spent fuel to a renewable energy fund, totaling \$9 million annually. In 2003, the statute was amended to extend the lifespan of nuclear-waste storage at Prairie Island, increasing the annual transfer to a fixed sum of \$16 million. In 2007, another amendment added a further assessment for dry casks stored at our nuclear generating plant in Monticello, Minnesota. Over the years, the annual amount set aside for RDF funding has increased as the Company has added more dry cask storage at both its Prairie Island and Monticello nuclear generating plants.

While the Renewable Development Fund Statute, Minn. Stat. § 116C.779, has been amended several times since its creation, 2017 Minnesota Session Laws Chapter 94, Article 10, Section 3 (the 2017 Legislation) made significant changes to the RDF program. These changes include:

- The creation of a new Renewable Development Account (RDA) in the special revenue fund in the state treasury, administered by the commissioner of management and budget (MMB). Previously, the funds were known as the RDF and administered by Xcel Energy.
- Changes to the purposes for which RDA funds can be spent in future funding cycles.
- The establishment of a new RDA advisory group, while the existing RDF advisory group remains for oversight over the RDF's prior funding cycles.
- Changes to the process for soliciting, selecting, and awarding RDA funds in future funding cycles.
- Changes in reporting requirements, mandating the RDA advisory group to submit an annual report on the projects funded by the RDA for the prior year and all previous years. Previously, these reports were submitted by Xcel Energy.

- A requirement that the Commissioner of Management and Budget report to the legislature on the availability of funds in and obligations of the RDA.

Essentially, the 2017 Legislation created two types of programs under the statute—the new RDA, funded by the annual transfer to the MMB (less the current legislative mandates) and the legacy RDF grants, which continue to be referred to as the RDF.

Under Minn. Stat. § 116C.779 subdiv. 1(p), the RDA advisory group is required to report to the chairs and ranking minority members of the legislative committees with jurisdiction over energy policy on projects funded by the RDA. This advisory group was supposed to include, among others, representatives of the public utility and its ratepayers, as well as at least one representative of the Prairie Island Indian community appointed by that community's tribal council. However, the 2017 legislation did not specify which entity is responsible for creating the RDA advisory group, and as a result, the group has not been established.

Given Xcel Energy's familiarity with the projects funded under the legacy RDF, its ongoing obligation for annual reporting to the Minnesota Public Utilities Commission, and the absence of an established RDA advisory group, Xcel Energy is submitting this report on behalf of the RDA advisory group. However, since the RDA advisory group was never established, Xcel Energy notes that it only provides information about its administration of RDA funds and has not consulted with the proposed advisory group representatives about the contents of this report.

II. FINANCIAL IMPACT OF THE RDF AND RDA

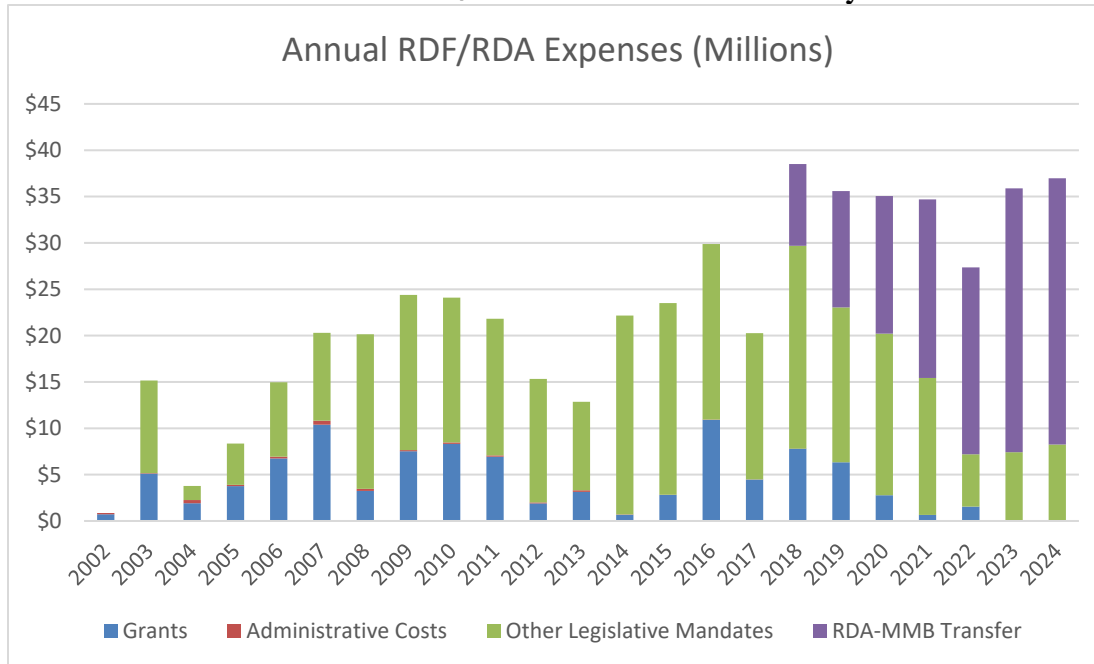
Under Minn. Stat. § 116C.779 subdiv (1)(c), (d) and (e), Xcel Energy must annually transfer \$500,000 to the RDA for each cask at its Prairie Island nuclear generating plant and \$350,000 for each cast at its Monticello nuclear plant. However, the Company can withhold RDF payments for ongoing legislative programs previously enacted. In 2024, because of the number of casks at Prairie Island and Monticello, the total cask obligation for RDA and RDF purposes amounted to \$36.5 million. Since inception, a cumulative total of \$567.45 million has been set-aside for RDA or RDF purposes. The 2023 Legislation updated Minn. Stat. § 116C.779 subdiv (1)(c), reducing the total amount transferred annually reduced by \$3,750,000.

The costs of the RDA and RDF are recovered from Xcel Energy's customers through an adjustable surcharge on their monthly electricity bills, known as a rate rider. Each year, on October 1, Xcel Energy submits an RDF summary report to the Public Utilities Commission. This report includes a proposed RDF rate rider charge for the

upcoming year, an annual financial report summarizing the RDF program’s past expenses, and a two-year expense forecast. In 2024, the RDF charge was \$0.001385 per kWh, or \$0.83 per month for the average residential customer using 600 kWh.

While Minn. Stat. §116C.779 subdiv. (1)(j) specifies purposes for which these funds may be spent, a decreasing amount has been spent on grants furthering these purposes. As can be seen in the chart below and detailed in **Attachment A**, the majority of the funds set aside under this program have gone to various legislative mandates. The Company’s transfer to the MMB for funding the RDA constitutes an increasing share of the annual payment, with only a small amount spent on the administration of the RDA and RDF.

Figure 1
Annual RDF/RDA Costs for Recovery



III. LEGISLATIVE MANDATES

A. Solar*Rewards

Minnesota’s Solar Energy Standards, established by Minn. Stat. § 116C.7792, directed the Company to establish a performance-based solar energy incentive program funded entirely by RDA funds. In 2013, Xcel Energy filed a program proposal with the Department of Commerce to approve the Solar*Rewards program, which provides

production incentives for qualifying solar energy systems.¹ The Solar*Rewards program launched on August 4, 2014. Since then, Minn. Stat. § 116C.7792 has been extended several times, with the program now running through 2035.

The Solar*Rewards program offers incentives for PV systems of a maximum total nameplate capacity of 40 kW alternating current. While appropriations were established, incentives are paid out over a 10-year period. Since this program's inception using RDF/RDA funding in 2014, 89.1 MW² of solar has been installed (roughly 9,434 systems).

B. Solar*Rewards For Schools

With the adoption of Minn. Stat. § 216C.376, the Company was directed to establish a solar for schools program for school districts and/or state college or universities. In October of 2021, Xcel Energy filed a program proposal with the Department of Commerce to approve the Solar*Rewards for Schools program. This program encourages schools to install and operate new solar energy systems by providing financial incentives for new on-site systems with a total aggregate nameplate capacity not exceeding the lesser of one (1) megawatt alternating current or 120 percent of the average annual electric energy consumption of the school building. The program was launched on May 2, 2022.

In May 2023, Minnesota Legislation repealed Minn. Stat. § 216C.376. Consequently, the Company filed a request with the Department of Commerce to administratively close the Solar for Schools program to new applications. This meant stopping the acceptance of new applications while continuing to process existing applications that already have been allocated incentives. The Deputy Commissioner's August 23, 2023 Decision in Docket No. E002/M-13-1015 confirmed this path forward:

*Approves Xcel's proposal to administratively close the Xcel Energy Solar*Rewards for Schools program as found on tariff sheets 9-100 to 9-112, to stop accepting new applications, and to stop processing previously submitted applications that have not already been allocated incentives but allow Xcel to continue to process the remaining Solar*Rewards for Schools applications that have already been allocated incentives.*

Since the program launched in 2022, the Solar*Rewards for Schools program has allocated approximately \$2.6 million in incentives to ten eligible schools before the

¹ Docket No. E,G002/CIP-13-1015.

² As the result of a data clean-up effort, the Company discovered some early Solar*Rewards systems that were largely oversized. The data has been corrected within our system, and the installed capacity has been updating accordingly. This number may reflect a smaller number than previously reported.

new legislation repealed the statutory basis for this program. Most of these projects were installed and became operational in 2023. The Company will continue to pay production incentives for these projects through their 10-year contracts. Additionally, the Company will maintain systems and tools to track and report on Solar for Schools for the Department of Commerce.

In 2022, the Company withheld \$8,000,000 from the transfer made under the RDA per Minn. Stat. § 216C.376 to provide financial assistance to schools and cover administrative costs for operating the program.³ The Company has allocated \$2,582,836 in incentives for nine applications moving through interconnection (one application withdrew since filing the 2024 Compliance report)⁴. Most of these projects are operational. The Company also projected an annual expenditure of \$15,000 for program administration over the duration of the 10-year contracts. The remaining funds (approximately \$5.2 million) were transferred to the RDA in January 2024. In the future, any remaining administration or incentive dollars not incurred will also be transferred to the RDA.

Our 2024 RDF Rider included the recovery of costs anticipated to be incurred in 2024.

IV. COMPANY TRANSFER TO THE MMB FOR THE RDA

Under the 2017 Legislation, Minn. Stat. § 116C.779, subdiv. 1(b)-(d), the Company is required to transfer its annual funding obligation for the storage of dry casks at the Prairie Island and Monticello nuclear power plants to the RDA, after deducting the amount necessary to pay its legislative obligations. In 2024, the Company's obligation for the storage of dry casks located at Prairie Island and Monticello was \$37 million (before deductions).

Minn. Stat. § 116C.779 mandates that the MMB administer the RDA account and provide a written report by February 1 each year to the chairs and ranking minority members of the senate and house committees with jurisdiction over energy policy and finance. This report details the availability of RDA funds in and obligations of the RDA. The Company defers to the MMB's report on those issues.

The 2017 Legislation does not designate an entity to “manage” the RDA, but the MMB is responsible for its administration. The legislation also seems to envision a new RDA advisory group, potentially with a different composition than the legacy

³ See 116C.779, subdivision 1, paragraph (e) and 2021 1st Special Session Laws, Chapter 4, Article 8, Section 24, subd. 5.

RDF advisory group (described below), to handle the preparation of requests for proposals and make funding recommendations to the Company. However, the process outlined in this legislation lacks certain critical details and has internal inconsistencies. As of now, an RDA advisory group has not been established.

V. LEGACY RDF GRANT PROGRAM

The 2017 Legislation struck a provision that referenced the Company's management of the RDF. However, Xcel Energy continues to be responsible for the day-to-day administration of the legacy RDF, in accordance with Minnesota Public Utilities Commission precedent. A seven-member advisory group, representing various stakeholder interests, assists Xcel Energy in administering the remaining legacy RDF grants. Further details about the members of the RDF advisory group can be found in **Attachment B**.

For informational purposes, **Attachment C** includes a complete list of projects that have been awarded RDF grants prior to the enactment of the 2017 legislation. As Table 1 below shows, 80 legacy RDF projects have been completed, and one is still active.

Table 1
Summary of Project Status

| Type | Completed | Active as of 12/31/2024 | Total |
|---------------------------------|-----------|----------------------------|-------|
| Energy Production | 25 | 1 | 26 |
| Research | 52 | 0 | 52 |
| Higher Education Block Grant | 3 | 0 | 3 |
| Total | 80 | 1 | 81 |

Conclusion

Xcel Energy appreciates the opportunity to provide this report, which summarizes the projects funded by the RDA and includes information about the projects funded by the RDF for informational purposes, through 2024.

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|------------------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Cask Fee Revenue | 4,500,000 | 6,000,000 | 7,000,000 | 8,500,000 | 16,000,000 | 16,000,000 | 16,000,000 | 16,000,000 | 16,000,000 | 19,500,000 | 19,500,000 | 19,500,000 | 19,500,000 | 19,500,000 | 22,750,000 | 24,250,000 | 25,250,000 | 25,600,000 | 25,600,000 | 32,500,000 | 32,500,000 | 34,000,000 | 34,000,000 | 35,500,000 | 35,500,000 |
| Solar Rebates | - | - | - | - | - | - | - | - | - | - | - | - | 382,541 | 1,808,050 | 2,119,059 | 3,686,335 | 3,950,536 | 3,513,790 | 2,149,212 | 1,650,546 | 447,620 | 43,157 | - | - | |
| Solar Rewards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55,503 | 66,743 | 523,430 | 594,055 | 725,654 | 2,409,068 | 3,419,232 | 4,381,683 | 5,625,966 | 7,295,953 |
| DOC Solar Incentive Program | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12,021,295 | 12,014,671 | 12,073,296 | 11,868,026 | - | - | - | - | - | - |
| Fibrominn/Benson Power | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4,000,000 | 6,500,000 | 6,500,000 | 3,000,000 | - | - |
| Laurentian Energy | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13,600,000 | 6,800,000 | 6,800,000 | 6,800,000 | - | - |
| DEED 21st Century Fund | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,000,000 | - | - | - | - | - |
| OES Program Support | - | - | - | - | - | - | - | - | - | - | 675,000 | 987,500 | 312,500 | - | - | - | - | - | - | - | - | - | - | - | - |
| IREE Program Support | - | - | - | - | - | - | - | - | - | - | 2,500,000 | 5,000,000 | 5,000,000 | 2,500,000 | - | - | - | - | - | - | - | - | - | - | - |
| Solar Energy Standard Exemption | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Excelsior | - | - | - | - | - | - | 2,000,000 | 2,000,000 | 1,707,182 | 390,776 | 3,171,035 | 731,007 | - | - | - | - | - | - | - | 77,123 | 39,210 | 55,651 | 35,752 | 19,697 | 30,710 |
| Next Gen Incent | - | - | - | - | - | - | - | - | 3,812,511 | 7,625,000 | 3,812,500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PCA REPI Pay | - | - | - | - | - | - | - | - | (4,000,000) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AURI | - | - | - | - | - | - | 150,000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| U of M | - | - | - | - | 10,000,000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Administrative Costs | - | - | - | 154,574 | 53,350 | 342,320 | 135,366 | 188,682 | 431,952 | 225,705 | 118,052 | 147,234 | 139,629 | 101,533 | 178,458 | 24,781 | 15,741 | 25,343 | 17,051 | 956 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transfer to RDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,817,885 | 12,556,510 | 14,852,115 | 19,259,667 | 20,159,757 | 28,468,278 |
| DOC State Incentive Support (REPI) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wind | - | - | - | - | 37,785 | 1,478,867 | 2,561,136 | 3,541,356 | 5,364,843 | 4,876,695 | 5,509,788 | 5,461,793 | 5,578,659 | 6,027,256 | 5,648,214 | 4,780,993 | 3,496,069 | 1,719,730 | 400,116 | 82,508 | - | - | - | - | - |
| Biogas & Hydro | - | - | - | - | - | 34,144 | 42,298 | 62,426 | 36,085 | 36,823 | 292,335 | 392,045 | 522,260 | 523,737 | 462,556 | 380,557 | 1,156,891 | 1,111,489 | 769,190 | 757,897 | 516,297 | 614,139 | 565,593 | - | - |
| 1st Wind | - | - | - | - | - | - | 1,706,992 | 4,411,999 | 4,268,408 | 4,135,176 | 3,955,365 | 3,778,190 | 2,933,087 | 2,466,897 | 1,302,132 | 535,384 | - | - | - | - | - | - | - | - | - |
| REPI (15+16+17 =) | - | - | - | - | - | 1,513,011 | 4,310,426 | 8,015,781 | 9,669,336 | 9,048,693 | 9,757,488 | 9,632,028 | 9,034,006 | 9,017,890 | 7,412,902 | 5,696,934 | 4,652,960 | 2,831,219 | 1,169,306 | 840,405 | 516,297 | 614,139 | 565,593 | - | - |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cycle 1 - 4 Payments | - | - | - | 715,901 | 5,104,353 | 1,917,256 | 1,761,907 | 4,753,411 | 8,677,031 | 2,847,851 | 4,362,038 | 7,595,376 | 6,943,768 | 1,902,837 | 3,142,992 | 680,843 | 2,809,764 | 10,917,325 | 4,464,752 | 7,793,971 | 6,330,850 | 2,774,641 | 650,575 | 1,550,952 | 100,027 |

RDF advisory group as of December 31, 2024

- Vacancy
Minnesota Division of Energy Resources
Representing Residential Customers
- (deceased) Vacancy
Health Partners
Representing Commercial and Industrial Customers
- Heather Westra
Representing Prairie Island Indian Community
- Vacancy
NSP-Minnesota
Representing NSP-Minnesota
- Tami Gunderzik, Senior Manager Product Portfolio
NSP-Minnesota
Representing NSP-Minnesota
- Lester Shen, Senior Research Engineer
MN Center for Energy and Environment
- Ben Gerber
MRETS
Representing environmental community

RDF Administration

- Gail Baranko, Program Manager
- Pamela Gibbs, Grant Administrator

| Project Name | Contract | Project End Date | Status | Type | Cycle | Resource | Project Description | RDF Award (Grant Amount) | Grant Funds Disbursed |
|---|----------|------------------|----------|------|-------|------------|---|-----------------------------|--------------------------|
| CENTRAL REGION | | | | | | | | | |
| University of Minnesota (Dairy) | RD4-2 | 2/28/20 | complete | RD | 4 | Solar/Wind | Model a “net-zero” energy dairy parlor at the West Central Research and Outreach Center by integratingrol 20 kW wind and 54 kW solar with storage. | \$982,408 | \$656,396 |
| City of Hutchinson | EP4-41 | 6/1/16 | complete | EP | 4 | Solar | Installed 400 kW photovoltaic fixed-tilt array on a capped municipal landfill and use the power at the adjacent wastewater treatment facility. | \$958,369 | \$958,369 |
| Best Power Int'l (St. John's Expansion) | EP4-6 | 3/16/15 | complete | EP | 4 | Solar | Installed a 182 kW photovoltaic fixed-tilt array at St. John's solar farm for a side-by-side comparison with the existing 400 kW single-axis tracking array. | \$172,213 | \$172,213 |
| Best Power Int'l (St. John's) | EP3-3 | 5/8/10 | complete | EP | 3 | Solar | Installed a 400 kW photovoltaic facility at St. John's University to demonstrate commercial viability of solar power in Minnesota. | \$1,994,480 | \$1,994,480 |
| University of Minnesota (Biomass) | RD3-23 | 8/1/11 | complete | RD | 3 | Biomass | Evaluated economic and technical issues related to biomass fuel and integrated gasification combined cycle technology. | \$819,159 | \$729,717 |
| University of North Dakota (Digester) | RD3-68 | 4/30/12 | complete | RD | 3 | Biomass | Field demonstration of a hydrogen sulfide reduction process at the anaerobic digester on the 1,000-acre Haubenschild Dairy Farm. | \$970,558 | \$970,480 |
| Minnesota Valley Alfalfa Producers | RD3-69 | 7/15/15 | complete | RD | 3 | Biomass | Researching application of kinetic disintegration technology to produce biomass pellets from feedstocks with varying levels of moisture. | \$1,000,000 | \$825,489 |
| Energy Performance Systems | RD-50 | 2/19/13 | complete | RD | 2 | Biomass | Built and demonstrated equipment for an integrated system to supply farm grown trees as a biomass feedstock to a power plant. | \$957,929 | \$957,929 |
| Blattner and Sons | BW-06 | 12/15/02 | complete | RD | 1 | Wind | Developed a platform that would climb the tower to eliminate that need for crane to construct very tall wind turbines. | \$68,470 | \$62,346 |
| Economic Benefits for West Central Region | | | | | | | | \$7,923,586 | \$7,327,419 |
| NORTH REGION | | | | | | | | | |
| University of Minnesota (Torrefaction) | RD4-11 | 9/30/2021 | complete | RD | 4 | Biomass | Demonstrate a prototypic torrefaction bioconversion process and distributed electric generation. | \$1,899,499 | \$1,765,541 |
| West Central Telephone Assoc. | RD3-58 | 5/12/10 | complete | RD | 3 | Wind/Solar | Designed and tested configurations and specifications of a hybrid wind/solar power system for distributed generation in remote locations. | \$137,000 | \$137,000 |
| University of North Dakota (Liguifaction) | RD3-66 | 4/10/12 | complete | RD | 3 | Biomass | Designed and demonstrated a mobile biomass liquefaction system that can utilize high moisture wood waste. | \$999,065 | \$998,697 |
| Mesaba/Excelsior Energy | EP-43 | 6/24/10 | complete | EP | 2 | Innovative | To design the basis of a base load Integrated Gasification Combined-Cycle (IGCC) power generation facility. | \$10,000,000 | \$10,000,000 |
| CMEC | EP-44 | 3/12/11 | complete | EP | 2 | Biomass | Designed 959-kW gasification plant to utilized distillers grains and local biomass. Refractory issues prevented completion of the facility. | \$2,000,000 | \$400,000 |
| University of Florida | RD-34 | 5/16/09 | complete | RD | 2 | Biomass | Demonstrated two-stage anaerobic digester at American Crystal Sugar in Moorhead, MN to generate methane for conversion to electricity. | \$999,995 | \$996,875 |
| Gas Technology Institute | RD-38 | 10/12/07 | complete | RD | 2 | Biomass | Developed a method to extract hydrogen from biomass gasification using membrane separation technologies. | \$861,860 | \$861,860 |
| Region 5 Development Commissin | EP4-44 | 7/9/19 | complete | EP | 4 | Solar | Install not more than 1,493 kw of direct-current (kwdc) solar capacity at two public schools and multiple community colleg campuses in Crow Wing and Todd Counties. It will include roof and ground mount photovoltaic (PV) arrays. Electric storage and EV charging stations that total 144 kW storage capacity will be installed at a minimum of two locations. | \$1,993,659 | \$1,993,659 |
| Economic Benefits for Northeast Region | | | | | | | | \$18,891,078 | \$15,159,973 |
| STATEWIDE | | | | | | | | | |
| Bergey Windpower Company | EP4-24 | 6/30/21 | complete | EP | 4 | Solar | Install 500 kW small wind capacity in the jurisdictions of Benton, Lincoln, Meeker, Murray, Nobles, Pipestone, and Stearns counties by constructing 50 distributed 10 kW microturbines. | \$1,106,600 | \$155,000 |
| Minnesota State Colleges & Universities | HE4-1 | 5/31/20 | complete | HE | 4 | All | Created a research program to stimulate the development of renewable electric energy technologies within Minnesota. | \$5,500,000 | \$5,500,000 |
| MN DNR | EP3 - 13 | 3/12/13 | complete | EP | 3 | Solar | Installed 114 kW of solar photovoltaic generation at various state parks and developed a renewable energy strategy for future DNR facilities. | \$894,000 | \$878,966 |
| Economic Benefits for Statewide Projects | | | | | | | | \$7,500,600 | \$6,533,966 |
| SOUTHEAST REGION | | | | | | | | | |
| Coaltec Energy USA | RD3 - 77 | 4/22/18 | complete | RD | 3 | Biomass | Demonstrated the feasibility of biomass gasification on a commercial turkey farm to generate electricity and heat. | \$1,000,000 | \$850,000 |
| Dragonfly Solar | EP4-29 | 5/8/18 | complete | EP | 4 | Solar | Install a fixed-tilt 997.5 kW solar array within the footprint of several existing wind farms. | \$1,650,000 | \$1,650,000 |
| City of Red Wing | RD4-8 | 8/6/22 | complete | RD | 4 | Biomass | Research will provide operational and performance data to improve the cost effectiveness and reduce potential environmental contaminants in the processing of refuse derived fuels. | \$1,999,500 | \$1,999,500 |

| | | | | | | | | | |
|---|---------|----------|------------|----|---|------------|---|-------------|-------------|
| Diamond K | EP-51 | 5/18/14 | complete | EP | 2 | Biomass | Installed a 300 kW of biomass generated and anaerobic digester at the Diamond K Dairy in Winona County, Minnesota. | \$936,530 | \$936,530 |
| AnAerobics, Inc | AB-07 | 6/3/03 | complete | EP | 1 | Biomass | Was to install a 1.7 MW genset and study removal of hydrogen sulfide created during anaerobic digestion but had site control issues. | \$1,300,000 | \$1,100,000 |
| Economic Benefits for Southeast Region | | | | | | | | \$6,886,030 | \$6,536,030 |
| SOUTHWEST REGION | | | | | | | | | |
| Best Power Int'l (School Sisters) | EP4-5 | 10/28/15 | complete | EP | 4 | Solar | Installed a 849 kW solar facility at the Mankato campus of the Central Pacific Province of the School Sisters of Notre Dame. | \$900,000 | \$900,000 |
| Outland Renewable Energy | EP3-10 | 4/1/13 | complete | EP | 3 | Solar | Installed 2 MW photovoltaic facility near Slayton, MN to demonstrate the benefits of utility scale use of photovoltaics in Minnesota. | \$2,000,000 | \$2,000,000 |
| Xcel Energy | RD3-12 | 12/19/11 | complete | RD | 3 | Wind | Installed a 1.0 MW sodium sulfur battery adjacent a wind farm to validate the value of energy storage for greater wind energy penetration. | \$1,000,000 | \$1,000,000 |
| Hilltop | EP-26 | 3/2/09 | complete | EP | 2 | Wind | Installed a 1.5 MW General Electric wind turbine in Lyon County with 100 percent of the electricity sold to Xcel Energy. | \$1,200,000 | \$1,200,000 |
| St. Olaf | EP-39 | 4/30/07 | complete | EP | 2 | Wind | Installed a 1.65 MW Micon wind turbine on campus. | \$1,500,000 | \$1,500,000 |
| Rural Advantage | RD-27 | 4/12/09 | complete | RD | 2 | Biomass | Demonstrated the commercial production of Miscanthus as a biomass fuel for electric generation. | \$318,800 | \$318,800 |
| Ag. Utilization Research Institute | RD-69 | 9/8/08 | complete | RD | 2 | Biomass | Conducted a feasibility study to couple bio-diesel and wind generation systems to “firm” wind power. | \$760,000 | \$760,000 |
| Project Resource Corp | AW-03 | 5/31/06 | complete | EP | 1 | Wind | Installed 5.4 MW of wind energy with a new landowner investment model that limits development risk of community shareholders. | \$900,000 | \$900,000 |
| Pipestone Jasper School | AW-10 | 12/31/04 | complete | EP | 1 | Wind | Installed a 900 kW wind turbine adjacent to the Pipestone-Jasper Public High School. | \$752,835 | \$752,835 |
| Economic Benefits for Southwest Region | | | | | | | | \$9,331,635 | \$9,331,635 |
| METRO REGION | | | | | | | | | |
| Crown Hydro | AH-01 | 9/1/18 | Terminated | EP | 1 | Hydro | Install 3.2 MW of hydroelectric capacity on the Mississippi River in downtown Minneapolis. | \$5,100,000 | \$1,538,591 |
| Innovative Power Systems | EP4-11 | 4/12/18 | complete | EP | 4 | Solar | Install 967 kW of solar capacity at four sites within the Innovative Energy Corridor. | \$1,850,000 | \$1,850,000 |
| Metropolitan Airports Commission | EP4-13 | 6/10/16 | complete | EP | 4 | Solar | Installed a 1.471 MW fixed-tilt solar facility on the Blue parking ramp at Terminal One of MPS airport. | \$2,022,507 | \$2,022,507 |
| Minnesota Renewable Energy Society | EP4-15 | 11/30/22 | current | EP | 4 | Solar | Install both a rural and urban solar garden totaling 1.0 MW of photovoltaic capacity to observe differences in subscriber interest. | \$2,454,125 | \$1,221,780 |
| Target Corporation | EP4-20 | 10/1/17 | complete | EP | 4 | Solar | Install a 350 kW roof-mounted, fixed-tilt photovoltaic facility on the Target Superstore. | \$583,513 | \$583,513 |
| Minneapolis Park & Rec. Board | EP4-22 | 7/15/18 | complete | EP | 4 | Solar | Install 200 kW of PV capacity at seven locations within the Minneapolis park system to demonstrate the effectiveness of alternative solar designs. | \$969,741 | \$969,741 |
| City of St. Paul | EP4-34 | 10/27/17 | complete | EP | 4 | Solar | Install a 105 kW fixed-tilt photovoltaic facility at CHS Field. | \$555,750 | \$555,750 |
| Universisty of Minnesota (Gasification) | RD4-1 | 12/31/21 | complete | RD | 4 | Biomass | Development and fabrication of a gasification method based on microwave heating for distributed generation of electricity from biomass and at the site of biomass generation. | \$999,999 | \$758,690 |
| Universisty of Minnesota (Noise) | RD4-12 | 11/5/19 | complete | RD | 4 | Wind | Research the sources and quality of wind turbine sound and the thresholds of potential health impacts on humans. | \$625,102 | \$625,102 |
| University of Minnesota (VWS) | RD4-13 | 6/2/20 | complete | RD | 4 | Wind | Augment the predictive capabilities of the Virtual Wind Simulator by adding an aeroelastic model and integrating advanced turbine control algorithms. | \$1,391,684 | \$1,201,889 |
| Barr Engineering | RD4-14 | 3/4/19 | complete | RD | 4 | Wind | Develop portable sensors to assess the health and life expectancy of wind turbine towers and foundations. | \$161,081 | \$147,309 |
| University of St. Thomas | HE4-2 | 12/12/19 | complete | RD | 4 | Solar/Wind | Install a 0.25 MW peak, multi-purpose microgrid in Chisago City to establish an Engineering Senior Design Clinic for microgrid research and testing. | \$2,157,215 | \$2,157,215 |
| University of Minnesota (REMF) | HE4-3 | 2/20/20 | complete | RD | 4 | All | Create Renewable Electricity for Minnesota’s Future (“REMF”) which will fund and support research in renewable electric energy generation. | \$3,000,000 | \$3,000,000 |
| Oak Leaf Energy | EP4-48 | 10/26/16 | complete | EP | 4 | Solar | Installed a 1,000 kW fixed-tilt photovoltaic facility at the Blue Lake Wastewater Treatment Plant. | \$2,000,000 | \$2,000,000 |
| Merrick | EP3-2 | 12/22/08 | complete | EP | 3 | Solar | Installed a roof-mounted 100 kW solar photovoltaic facility on a non-profit adult day training and habilitation center. | \$735,000 | \$735,000 |
| City of Minneapolis | EP3-11 | 1/15/13 | complete | EP | 3 | Solar | Installed a 600 kW photovoltaic facility on the Minneapolis Convention Center. | \$2,000,000 | \$2,000,000 |
| freEner-g | EP3- 12 | 2/17/11 | complete | EP | 3 | Solar | Installed 280 kW photovoltaic capacity through a leasing and service package for residential and small businesses. | \$1,488,922 | \$1,488,922 |

| Aurora St. Anthony Limited , LLC | EP4-42 | 8/30/19 | complete | EP | 4 | Solar | Development of a high-density solar energy system as part of redevelopment of Old Home Milk Dairy property. Aurora and primary project partner (St. Paul Housing Group) are proposing to construct and operate a roof-mounted solar energy project totaling 252 kilowatts using tenK solar 410 watt panels. | \$239,994 | \$239,994 |
|--|----------|------------------|----------|------|-------|----------|---|--------------|-----------------------|
| | | | | | | | | Funding | |
| Project Name | Contract | Project End Date | Status | Type | Cycle | Resource | Project Description | RDF Award | Grant Funds Disbursed |
| University of Minnesota (Koda) | RD3-1 | 1/22/15 | complete | RD | 3 | Biomass | Development of a production, pre-processing and delivery system for biomass feedstock's from prairie and grasslands. | \$992,989 | \$976,743 |
| SarTec Corporation | RD3-2 | 7/11/11 | complete | RD | 3 | Biofuel | Researched the growth of algae fed on CO2 from flue gas and extracted the algae oils for conversion into a marketable biodiesel product. | \$350,000 | \$350,000 |
| Bepex International | RD3-4 | 7/28/11 | complete | RD | 3 | Biomass | Demonstrated torrefaction and densification as processes to reduce transportation and storage costs associated with biomass feedstock. | \$924,671 | \$924,671 |
| University of Minnesota (Nanocrystals) | RD3- 25 | 12/26/11 | complete | RD | 3 | Solar | Developed techniques for controlling microstructures of hydrogenated silicon and improving the grain size of microcrystalline silicon PV films. | \$732,032 | \$732,032 |
| University of Minnesota (Cropping) | RD3-28 | 9/22/13 | complete | RD | 3 | Biomass | Developed guidelines for accurate management of biomass removal and maintenance of soil quality. | \$979,082 | \$979,048 |
| University of Minnesota (Wind) | RD3-42 | 8/7/13 | complete | RD | 3 | Wind | Developed and tested a Virtual Wind Simulator to provide accurate wind turbulence predictions. | \$999,999 | \$999,598 |
| Lower St. Anthony Falls | EP-34 | 1/31/12 | complete | EP | 2 | Hydro | Restored 9.176 MW hydroelectric generating capacity at the Lower St. Anthony Falls by using run-of-river technology. | \$2,000,000 | \$2,000,000 |
| University of Minnesota | RD-29 | 9/24/08 | complete | RD | 2 | Biomass | Researched operation of turbo-generators using biomass-derived oils. | \$299,284 | \$299,284 |
| University of Minnesota | RD-56 | 4/16/08 | complete | RD | 2 | Biomass | Developed model to evaluate options to optimize combustion and electricity generation in ethanol plants. | \$858,363 | \$803,246 |
| Windlogics | RD-57 | 11/11/08 | complete | RD | 2 | Wind | Defined, designed, built and demonstrated a complete wind power forecasting system. | \$997,000 | \$997,000 |
| Center for Energy Environment | RD-94 | 10/12/07 | complete | RD | 2 | Biomass | Developed two web-based programs for planning and development of biomass resources in Minnesota. | \$397,500 | \$397,500 |
| MN Dept. of Commerce | AS-05 | 9/1/08 | complete | EP | 1 | Solar | Provided rebates of up to \$8,000 for small photovoltaic installations that are wired into the electrical grid. | \$1,150,000 | \$1,150,000 |
| Science Museum | AS-06 | 12/31/03 | complete | EP | 1 | Solar | Installed a 9 kW solar roof to demonstrate a Zero Energy Building for the Minnesota Science Museum. | \$100,000 | \$100,000 |
| Sebesta Blomberg | BB-03 | 9/30/03 | complete | RD | 1 | Biomass | Examined the feasibility of a gasification system using the byproducts of an ethanol facility to provide heat and power. | \$738,654 | \$738,654 |
| Energy Performance Systems | BB-06 | 12/15/02 | complete | RD | 1 | Biomass | Conversion design of the NSP Granite Falls coal-fired facility to a biomass system capable of utilizing whole trees. | \$266,508 | \$257,247 |
| University of Minnesota | CW-06 | 12/31/06 | complete | RD | 1 | Wind | Designed a flywheel battery system to enhance the ability to dispatch wind energy with inertial storage. | \$654,309 | \$654,309 |
| Economic Benefits for Metro Region | | | | | | | | \$40,775,024 | \$35,455,335 |
| OUT OF STATE | | | | | | | | | |
| InterPhases Solar | RD4-7 | 2/28/21 | complete | RD | 4 | Solar | Development commerical production process of a thin-film technology by combining all the electrodeposition processes into a single manufacturing process. | \$1,000,000 | \$1,000,000 |
| Northern Plains Power Tech. | RD3-21 | 11/11/12 | complete | RD | 3 | Solar | Developed a loss-of-mains detection based on harmonic signature and synchrophasor data. | \$493,608 | \$493,608 |
| InterPhases Solar | RD3-53 | 7/20/12 | complete | RD | 3 | Solar | Demonstrated a manufacturing process to produce lightweight, thin-film solar cells. | \$1,000,000 | \$1,000,000 |
| University of North Dakota | RD3-71 | 3/23/12 | complete | RD | 3 | Biomass | Demonstrated a thermally integrated biomass gasification systems with a 30 kW low-Btu gas turbine. | \$999,728 | \$999,438 |
| Energy Conversion Devices | RD-22 | 10/12/07 | complete | RD | 2 | Biomass | Researched processes to reform bio-ethanol and bio-methanol into hydrogen for use in a fuel cell or gas turbine to generate electricity. | \$900,000 | \$900,000 |
| Coaltec | RD-26 | 1/12/07 | complete | RD | 2 | Biomass | Studied handling, performance and emissions to assess feasibility of poultry waste as a sustainable feedstock for a fixed-bed gasifier. | \$450,000 | \$450,000 |
| Production Specialties | RD-72 | 11/16/09 | complete | RD | 2 | Biomass | Investigated a technology to selectively remove hydrogen sulfide (H2S) from biogas without generating a waste stream. | \$228,735 | \$228,735 |
| Interphases Solar | RD-78 | 10/14/08 | complete | RD | 2 | Solar | Developed a concept to manufacture flexible photovoltaic modules in a continuous roll-to-roll electro-deposition process. | \$1,000,000 | \$1,000,000 |
| Global Energy Concepts | RD-87 | 5/7/09 | complete | RD | 2 | Wind | Analyzed and developed advanced methods for reducing uncertainty in wind power estimates. | \$370,000 | \$370,000 |
| NREL - Inkjet Solar Cells | RD-93 | 11/11/08 | complete | RD | 2 | Solar | Designed and developed a thin-film solar cell that will use a direct-write inkjet printing process. | \$1,000,000 | \$949,005 |
| NREL-Low Band Gap-Solar | RD-107 | 12/9/08 | complete | RD | 2 | Solar | Overcome limitations in organic-based solar cells by developing low band gap (red light absorbing) materials. | \$1,000,000 | \$944,452 |

| | | | | | | | | | |
|---|--------|----------|----------|----|---|---------|---|--------------|--------------|
| Iowa State University | RD-110 | 7/12/07 | complete | RD | 2 | Biomass | Performance testing of a particulate filtration clean-up system for the producer gas from a biomass gasifier. | \$405,000 | \$98,343 |
| University of ND - Cofiring | BB-09 | 3/31/05 | complete | RD | 1 | Biomass | Measured operational and component impacts of co-firing biomass with coal in an indirect fired combined-cycle pulverized-coal furnace. | \$444,478 | \$444,443 |
| Community Power Corp. | BB-10 | 3/24/05 | complete | RD | 1 | Biomass | Designed, developed, and tested a centrifugal filter capable of removing sub micron particles and aerosols from a hot producer bio-gas stream. | \$638,635 | \$548,692 |
| University of ND - SCR Performance | BB-12 | 6/30/06 | complete | RD | 1 | Biomass | Examined the rates and mechanisms of catalyst deactivation within the emissions from a biomass co-fired utility boiler. | \$60,000 | \$59,973 |
| Colorado School of Mines | CB-07 | 12/31/07 | complete | RD | 1 | Biomass | Developed a fuel cell prototype for use in ambient or high temperatures. | \$1,116,742 | \$1,116,742 |
| University of ND - SOFC | CB-08 | 10/31/07 | complete | RD | 1 | Biomass | Incorporated solid oxide fuel cells (SOFCs) and gasification into one integrated system to produce electricity. | \$1,250,142 | \$1,250,142 |
| NREL | CS-05 | 7/9/07 | complete | RD | 1 | Solar | Design and develop of solutions and techniques to use an inkjet printing process for the manufacturing of thin-film solar cells. | \$934,628 | \$924,757 |
| Global Energy Concepts | CW-02 | 10/1/03 | complete | RD | 1 | Wind | Translated the effects of a turbine's rotating flexible blades into a linear model for use in wind turbine design software. | \$75,000 | \$73,239 |
| University of Florida | RD4-5 | 12/31/21 | complete | RD | 4 | Biomass | 3 year research project to demonstrate biogasification of organic wastes. Mobile, self contained flexible design, pilot scale digester will be constructed and operated at two sites in western MN. | \$1,109,538 | \$978,552 |
| Economic Benefits for Out of State Area | | | | | | | | \$14,476,234 | \$12,851,569 |

CERTIFICATE OF SERVICE

I, Joshua DePauw, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota

xx electronic filing

DOCKET NO. **E002/M-00-1583**
 E002/M-03-1883
 E002/M-07-675
 E002/M-12-1278

Dated this 14th day of February 2025

/s/

Joshua DePauw
Regulatory Administrator

| # | First Name | Last Name | Email | Organization | Agency | Address | Delivery Method | Alternate Delivery Method | View Trade Secret | Service List Name |
|----|----------------|--------------------------------|--------------------------------------|--|---|--|--------------------|---------------------------|-------------------|-------------------|
| 14 | Andy | Herring | | Colorado School Of Mines | | 1500 Illinois Street Golden CO, 80401 United States | Paper Service | | No | 0-15831 |
| 15 | KDV c/o Mary | Hoffman | mhoffman@kdv.com | Crown Hydro LLC | | 3800 American Blvd W Suite 1000 Bloomington MN, 55431-4420 United States | Electronic Service | | No | 0-15831 |
| 16 | Jerry | Horgan | | Pipestone-Jasper Public Sch Dist #2689 | | 1401 Seventh Street SW Pipestone MN, 56164-1877 United States | Paper Service | | No | 0-15831 |
| 17 | Cindy | Jepsen | ccjepsen@capitolresource.mn.com | Capitol Resources | | Box 254 Marine On St. Croix MN, 55047 United States | Electronic Service | | No | 0-15831 |
| 18 | John | Johnson | | Stewart Energy Products | | 22739 Highway 212 E. P.O. Box 219 Stewart MN, 55385 United States | Paper Service | | No | 0-15831 |
| 19 | Richard | Mattocks | | Environomics | | 2517 Rte. 44, 11-221 Salt Point NY, 12578 United States | Paper Service | | No | 0-15831 |
| 20 | Clark | McDonald | | | | 504 - 20Th Street North Benson MN, 56215 United States | Paper Service | | No | 0-15831 |
| 21 | David | Planting | | Archer Daniels Midland | | 400 West Erie Rd. Marshall MN, 56258 United States | Paper Service | | No | 0-15831 |
| 22 | Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | | Office of the Attorney General - Residential Utilities Division | 1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States | Electronic Service | | Yes | 0-15831 |
| 23 | Christine | Schwartz | regulatory.records@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall FL 7 Minneapolis MN, 55401-1993 United States | Electronic Service | | No | 0-15831 |
| 24 | Dean | Sedgwick | sedgwick@itascapower.com | Itasca Power Company | | PO Box 455 Spring Lake MN, 56680 United States | Electronic Service | | No | 0-15831 |
| 25 | Will | Seuffert | will.seuffert@state.mn.us | | Public Utilities Commission | 121 7th PI E Ste 350 Saint Paul MN, 55101 United States | Electronic Service | | Yes | 0-15831 |
| 26 | Scott | Vreeland | | Seward Neighborhood Group | | 2437 - 33Rd Avenue South Minneapolis MN, 55406 United States | Paper Service | | No | 0-15831 |

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|----|------------|-----------|-------------------------------|--|--------|--|--------------------|---------------------------|-------------------|-------------------|
| 27 | Heather | Westra | heather.westra@piic.org | Prairie Island Indian Community | | 5636 Sturgeon Lake Rd Welch MN, 55089 United States | Electronic Service | | No | 0-15831 |
| 28 | Paul | White | paul.white@prcwind.com | Project Resources Corp./Tamarac Line LLC/Ridgewind | | 618 2nd Ave SE Minneapolis MN, 55414 United States | Electronic Service | | No | 0-15831 |
| 29 | Robyn | Woeste | robynwoeste@alliantenergy.com | Interstate Power and Light Company | | 200 First St SE Cedar Rapids IA, 52401 United States | Electronic Service | | No | 0-15831 |

| # | First Name | Last Name | Email | Organization | Agency | Address | Delivery Method | Alternate Delivery Method | View Trade Secret | Service List Name |
|----|----------------|--------------------------------|--------------------------------------|-------------------------------------|---|--|--------------------|---------------------------|-------------------|-------------------|
| 1 | Steven J. | Almos | salmos.wn@bsm.com | Bay State Milling Company | | 55 Franklin Street Winona MN, 55987 United States | Paper Service | | No | 03-18831 |
| 2 | James J. | Bertrand | james.bertrand@stinson.com | STINSON LLP | | 50 S 6th St Ste 2600 Minneapolis MN, 55402 United States | Electronic Service | | No | 03-18831 |
| 3 | Generic | Commerce Attorneys | commerce.attorneys@ag.state.mn.us | | Office of the Attorney General - Department of Commerce | 445 Minnesota Street Suite 1400 St. Paul MN, 55101 United States | Electronic Service | | Yes | 03-18831 |
| 4 | John R. | Dunlop, P.E. | jdunlop@resminn.com | Renewable Energy Services | | Suite 300 448 Morgan Ave. S. Minneapolis MN, 55405-2030 United States | Electronic Service | | No | 03-18831 |
| 5 | Sharon | Ferguson | sharon.ferguson@state.mn.us | | Department of Commerce | 85 7th Place E Ste 280 Saint Paul MN, 55101-2198 United States | Electronic Service | | Yes | 03-18831 |
| 6 | Gary | Gillet | | University Of Minnesota | | Suite 450 200 Oak Street SE Minneapolis MN, 55455-2070 United States | Paper Service | | No | 03-18831 |
| 7 | Cindy | Jepsen | ccjepsen@capitolresourcemn.com | Capitol Resources | | Box 254 Marine On St. Croix MN, 55047 United States | Electronic Service | | No | 03-18831 |
| 8 | John | Johnson | | Stewart Energy Products | | 22739 Highway 212 E. P.O. Box 219 Stewart MN, 55385 United States | Paper Service | | No | 03-18831 |
| 9 | Renee | Landwehr | | Clean Power Markets, Inc. | | 303 Monroe St Little Chute WI, 54140-1722 United States | Paper Service | | No | 03-18831 |
| 10 | Patrick | Mulloy | | Mulloy Environmental Services, Inc. | | 3636 Garfield Ave. S. Minneapolis MN, 55409 United States | Paper Service | | No | 03-18831 |
| 11 | Rolf | Nordstrom | rnordstrom@gpisd.net | Great Plains Institute | | 2801 21ST AVE S STE 220 Minneapolis MN, 55407-1229 United States | Electronic Service | | No | 03-18831 |
| 12 | Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | | Office of the Attorney General - Residential Utilities Division | 1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States | Electronic Service | | Yes | 03-18831 |
| 13 | Keith A. | Schimmel | cengr@bci.net | Technology Matrix Corporation | | P.O. Box 11236 Syracuse NY, 13218 United States | Paper Service | | No | 03-18831 |

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|----|------------|-----------|-----------------------------------|---------------------------------|-----------------------------|---|--------------------|---------------------------|-------------------|-------------------|
| 14 | Christine | Schwartz | regulatory.records@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall FL 7 Minneapolis MN, 55401-1993 United States | Electronic Service | | No | 03-18831 |
| 15 | Dean | Sedgwick | sedgwick@itascapower.com | Itasca Power Company | | PO Box 455 Spring Lake MN, 56680 United States | Electronic Service | | No | 03-18831 |
| 16 | Will | Seuffert | will.seuffert@state.mn.us | | Public Utilities Commission | 121 7th PI E Ste 350 Saint Paul MN, 55101 United States | Electronic Service | | Yes | 03-18831 |
| 17 | Byron E. | Starns | byron.starns@stinson.com | STINSON LLP | | 50 S 6th St Ste 2600 Minneapolis MN, 55402 United States | Electronic Service | | No | 03-18831 |
| 18 | Heather | Westra | heather.westra@piic.org | Prairie Island Indian Community | | 5636 Sturgeon Lake Rd Welch MN, 55089 United States | Electronic Service | | No | 03-18831 |

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| 1 | Steven J. | Almos | salmos.wn@bsm.com | Bay State Milling Company | | 55 Franklin Street Winona MN, 55987 United States | Paper Service | | No | 7-6751 |
| 2 | James J. | Bertrand | james.bertrand@stinson.com | STINSON LLP | | 50 S 6th St Ste 2600 Minneapolis MN, 55402 United States | Electronic Service | | No | 7-6751 |
| 3 | Generic | Commerce Attorneys | commerce.attorneys@ag.state.mn.us | | Office of the Attorney General - Department of Commerce | 445 Minnesota Street Suite 1400 St. Paul MN, 55101 United States | Electronic Service | | Yes | 7-6751 |
| 4 | John R. | Dunlop, P.E. | jdunlop@resminn.com | Renewable Energy Services | | Suite 300 448 Morgan Ave. S. Minneapolis MN, 55405-2030 United States | Electronic Service | | No | 7-6751 |
| 5 | Sharon | Ferguson | sharon.ferguson@state.mn.us | | Department of Commerce | 85 7th Place E Ste 280 Saint Paul MN, 55101-2198 United States | Electronic Service | | Yes | 7-6751 |
| 6 | Gary | Gillet | | University Of Minnesota | | Suite 450 200 Oak Street SE Minneapolis MN, 55455-2070 United States | Paper Service | | No | 7-6751 |
| 7 | Cindy | Jepsen | ccjepsen@capitolresource.mn.com | Capitol Resources | | Box 254 Marine On St. Croix MN, 55047 United States | Electronic Service | | No | 7-6751 |
| 8 | John | Johnson | | Stewart Energy Products | | 22739 Highway 212 E. P.O. Box 219 Stewart MN, 55385 United States | Paper Service | | No | 7-6751 |
| 9 | Timothy M. | Kelley | timothy.kelley@stinson.com | STINSON LLP | | 50 S 6th St Ste 2600 Minneapolis MN, 55402 United States | Electronic Service | | No | 7-6751 |
| 10 | Renee | Landwehr | | Clean Power Markets, Inc. | | 303 Monroe St Little Chute WI, 54140-1722 United States | Paper Service | | No | 7-6751 |
| 11 | Patrick | Mulloy | | Mulloy Environmental Services, Inc. | | 3636 Garfield Ave. S. Minneapolis MN, 55409 United States | Paper Service | | No | 7-6751 |
| 12 | Rolf | Nordstrom | rnordstrom@gpisd.net | Great Plains Institute | | 2801 21ST AVE S STE 220 Minneapolis MN, 55407-1229 United States | Electronic Service | | No | 7-6751 |
| 13 | Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | | Office of the Attorney General - Residential Utilities Division | 1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States | Electronic Service | | Yes | 7-6751 |

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| 14 | Keith A. | Schimmel | cengr@bci.net | Technology Matrix Corporation | | P.O. Box 11236 Syracuse NY, 13218 United States | Paper Service | | No | 7-6751 |
| 15 | Christine | Schwartz | regulatory.records@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall FL 7 Minneapolis MN, 55401-1993 United States | Electronic Service | | No | 7-6751 |
| 16 | Dean | Sedgwick | sedgwick@itascapower.com | Itasca Power Company | | PO Box 455 Spring Lake MN, 56680 United States | Electronic Service | | No | 7-6751 |
| 17 | Will | Seuffert | will.seuffert@state.mn.us | | Public Utilities Commission | 121 7th PI E Ste 350 Saint Paul MN, 55101 United States | Electronic Service | | Yes | 7-6751 |
| 18 | Byron E. | Starns | byron.starns@stinson.com | STINSON LLP | | 50 S 6th St Ste 2600 Minneapolis MN, 55402 United States | Electronic Service | | No | 7-6751 |
| 19 | Heather | Westra | heather.westra@pic.org | Prairie Island Indian Community | | 5636 Sturgeon Lake Rd Welch MN, 55089 United States | Electronic Service | | No | 7-6751 |

| # | First Name | Last Name | Email | Organization | Agency | Address | Delivery Method | Alternate Delivery Method | View Trade Secret | Service List Name |
|----|----------------|--------------------------------|--------------------------------------|------------------------------------|---|---|--------------------|---------------------------|-------------------|-------------------|
| 1 | Mara | Ascheman | mara.k.ascheman@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall Fl 5 Minneapolis MN, 55401 United States | Electronic Service | | No | 12-1278Official |
| 2 | Generic | Commerce Attorneys | commerce.attorneys@ag.state.mn.us | | Office of the Attorney General - Department of Commerce | 445 Minnesota Street Suite 1400 St. Paul MN, 55101 United States | Electronic Service | | Yes | 12-1278Official |
| 3 | Sharon | Ferguson | sharon.ferguson@state.mn.us | | Department of Commerce | 85 7th Place E Ste 280 Saint Paul MN, 55101-2198 United States | Electronic Service | | No | 12-1278Official |
| 4 | Cheryal Lee | Hills | chills@regionfive.org | Region Five Development Commission | | 200 First Street NE Suite 2 Staples MN, 56479 United States | Electronic Service | | No | 12-1278Official |
| 5 | Lisa | Hondros | lhondros@gmail.com | | | 171 East Island Ave Minneapolis MN, 55401 United States | Electronic Service | | No | 12-1278Official |
| 6 | Kevin | McKoskey | awards@umn.edu | Regents of the University of MN | | 450 McNamara 200 Oak Street SE Minneapolis MN, 55455 United States | Electronic Service | | No | 12-1278Official |
| 7 | Thomas | Melone | thomas.melone@allcous.com | Minnesota Go Solar LLC | | 222 South 9th Street Suite 1600 Minneapolis MN, 55120 United States | Electronic Service | | No | 12-1278Official |
| 8 | Robert | Messerich | b.messerich@gmail.com | Dragonfly Solar, LLC | | 10583 202nd St West Lakeville MN, 55044 United States | Electronic Service | | No | 12-1278Official |
| 9 | Alan | Muller | alan@greendel.org | Energy & Environmental Consulting | | 1110 West Avenue Red Wing MN, 55066 United States | Electronic Service | | No | 12-1278Official |
| 10 | Jeffrey C | Paulson | jeff.jcplaw@comcast.net | Paulson Law Office, Ltd. | | 4445 W 77th Street Suite 224 Edina MN, 55435 United States | Electronic Service | | No | 12-1278Official |
| 11 | Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | | Office of the Attorney General - Residential Utilities Division | 1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States | Electronic Service | | Yes | 12-1278Official |
| 12 | Christine | Schwartz | regulatory.records@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall FL 7 Minneapolis MN, 55401-1993 United States | Electronic Service | | No | 12-1278Official |
| 13 | Will | Seuffert | will.seuffert@state.mn.us | | Public Utilities Commission | 121 7th Pl E Ste 350 Saint Paul | Electronic Service | | Yes | 12-1278Official |

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|----|------------|-----------|----------------------------|-----------------------------|--------|---|-----------------------|---------------------------|-------------------|---------------------|
| | | | | | | MN, 55101 United States | | | | |
| 14 | Bria | Shea | bria.e.shea@xcelenergy.com | Xcel Energy | | 414 Nicollet Mall Minneapolis MN, 55401 United States | Electronic Service | | No | 12- 1278Official |
| 15 | Dr. Don | Weinkauf | dhweinkauf@stthomas.edu | University of St. Thomas | | Mail OSS 101 2115 Summit Ave St. Paul MN, 55105-1079 United States | Electronic Service | | No | 12- 1278Official |