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April 21, 2023

—Via Electronic Filing—

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

RE: 2022 ANNUAL REPORT - CORRECTION
COMMISSION INVESTIGATION INTO SELF-COMMITMENT AND SELF-SCHEDULING OF LARGE BASELOAD GENERATION FACILITIES
DOCKET NO. E999/CI-19-704

PLAN TO OFFER GENERATING RESOURCES INTO THE MISO MARKET ON A SEASONAL BASIS
DOCKET NO. E002/M-19-809

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this corrected annual report analyzing the Company's 2022 results of and future options for seasonal dispatch, self-commitment, and self-scheduling. The Department brought to our attention that the wrong file had been inadvertently uploaded to eDockets upon filing the 2022 Report. The enclosed report is the correct report narrative intended to have been filed on March 1, 2023. We apologize for this error.

We note that the live attachments were filed correctly on March 1; only the report narrative was impacted by the error.

Please note that portions of Attachment A, B C, E, and F are marked as "Not Public." Certain data is considered to be "not public data" pursuant to Minn. Stat. §13.02, Subd.9, and is "Trade Secret" information pursuant to Minn. Stat. §13.37, subd. 1(b) as this data derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use.

Pursuant to Minn. Stat. § 216.17, subd. 3, we have electronically filedIt just seems this document, and served copies of the summary on the parties on the attached service list.

Please contact Rebecca Eilers at rebecca.d.eilers@xcelenergy.com / 612-330-5570 or me at christopher.j.shaw@xcelenergy.com / 612- 330-7974 if you have any questions regarding this filing.

SINCERELY,

/s/

CHRISTOPHER SHAW
MANAGER, REGULATORY POLICY

Enclosures
cc: Service List

CERTIFICATE OF SERVICE

I, Marie Horner, 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 NOS. E999/CI-19-704
E002/M-19-809

Dated this 21st day of April 2023

/s/
_____
Marie Horner

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Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-704_Official
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March 1, 2023

—Via Electronic Filing—

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

RE: 2022 ANNUAL REPORT
COMMISSION INVESTIGATION INTO SELF-COMMITMENT AND SELF-SCHEDULING OF LARGE BASELOAD GENERATION FACILITIES
DOCKET NO. E999/CI-19-704

PLAN TO OFFER GENERATING RESOURCES INTO THE MISO MARKET ON A SEASONAL BASIS
DOCKET NO. E002/M-19-809

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submit this annual report analyzing the Company's 2022 results of and future options for seasonal dispatch, self-commitment and self-scheduling in compliance with the Minnesota Public Utilities Commission's February 7, 2019 Order in Docket Nos. E999/AA-17-492 and E999/AA-18-373, November 13, 2019 Order in Docket No. E999/AA-18-373, July 15, 2020 Order in Docket No. E002/M-19-908, and January 11, 2021, December 1, 2021 Order in Docket No. E999/CI-19-704, and November 17, 2022 Order in Docket No E999/CI-19-704.

Please note that portions of Attachment A, B C, E, and F are marked as "Not Public." Certain data is considered to be "not public data" pursuant to Minn. Stat. §13.02, Subd.9, and is "Trade Secret" information pursuant to Minn. Stat. §13.37, subd. 1(b) as this data derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use.

Pursuant to Minn. Stat. § 216.17, subd. 3, we have electronically filed this document, and served copies of the summary on the parties on the attached service list.

Please contact Rebecca Eilers at rebecca.d.eilers@xcelenergy.com / 612-330-5570 or me at christopher.j.shaw@xcelenergy.com / 612- 330-7974 if you have any questions regarding this filing.

SINCERELY,

/s/

CHRISTOPHER SHAW
MANAGER, REGULATORY POLICY

Enclosures
cc: Service Lists

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Valerie Means	Commissioner
Matthew Schuerger	Commissioner
Joseph K. Sullivan	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF AN INVESTIGATION INTO SELF-COMMITMENT AND SELF-SCHEDULING OF LARGE BASELOAD GENERATION FACILITIES	DOCKET NO. E999/CI-19-704
IN THE MATTER OF THE PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF A PLAN TO OFFER GENERATING RESOURCES INTO THE MISO MARKET ON A SEASONAL BASIS	DOCKET NO. E002/M-19-809

ANNUAL REPORT

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits this annual report analyzing the Company's commitment of its baseload generation and options for seasonal dispatch, self-commitment and self-scheduling in compliance with several Orders issued by the Minnesota Public Utilities Commission:

- Docket Nos. E999/AA-17-492 and E999/AA-18-373, ORDER ACCEPTING 2016-2017 REPORTS AND SETTING ADDITIONAL REQUIREMENTS, February 7, 2019 (February 7 Order);
- Docket No. E999/AA-18-373, ORDER ACCEPTING 2017-2018 ELECTRIC REPORTS AND SETTING ADDITIONAL REQUIREMENTS, November 13, 2019 (November 13 Order); and
- Docket Nos. E999/CI-19-704 and E002/M-19-809, ORDER EVALUATING SELF-COMMITMENT AND SELF-SCHEDULING REPORTS AND ESTABLISHING ADDITIONAL FILING REQUIREMENTS, January 11, 2021 (January 11 Order).
- Docket No. E999/CI-19-704, ORDER ACCEPTING REPORTS AND SETTING ADDITIONAL REQUIREMENTS, December 1, 2021 (December 1 Order).
- Docket No. E999/CI-19-704, ORDER, NOVEMBER 17, 2022 (November 17 Order).

We include additional reporting related to the Company's plan to offer generating resources into the MISO market on a seasonal basis as required by the Commission's July 15, 2020 ORDER APPROVING PLAN AND REQUIRING FILING in Docket No. E002/M-19-809 (July 15 Order).

We provide the requested analysis for calendar year 2022.

ANNUAL REPORT

A. Analysis of Self-Commitment and Self-Scheduling Decisions for Calendar Year 2022

In compliance with the above-noted Orders, we provide an analysis of self-commitment and self-scheduling decisions made during the calendar year 2022 reporting period.

The Company analyzed the economic impact of its self-commit actions for the period January – December 2022 by comparing the MISO day-ahead and real-time (DART) revenues and charges that Xcel Energy received from its self-commit approach for certain resources to the production costs of those resources to determine margin. While we cannot perform a what-if margin analysis of allowing MISO to commit and dispatch the Xcel Energy units, the Company did analyze the total DART margins of the actions it did take to self-commit these resources.

The analysis evaluates actions taken for Xcel Energy's baseload units, exclusive of its Refuse Derived Fuel units. Additionally, the combined cycle and simple cycle combustion turbines are not included in the analysis because these generating resources are offered to MISO as economic units unless testing or operating directives (*i.e.* MISO or transmission operations directives) require otherwise. The baseload units included in the analysis comprise a large part of the Company's MISO settlement and are the bulk of our strategic self-commit decisions. Since 2019, the Company's practice is to offer our coal facilities with an economic commit status – as opposed to self-commit – as much as possible. The Company began in fall 2020 to suspend normal operations at King and Sherco 2 during non-peak seasons, as discussed in Docket No. E002/M-19-809. As noted in our April 29, 2022 Update Letter in this docket, in March 2022 MISO's Independent Market Monitor (IMM) raised new concerns regarding the reasonableness of our plans to idle King and Sherco 2 during the Spring 2022 season and both units cleared in the 2022-2023 MISO Planning Reserve Auction (PRA). As a result, King and Sherco 2 have been offered since last March.

In evaluating instances of self-commitment of these units, we also excluded hours when Xcel Energy's self-commit action in the MISO market was unavoidable (*e.g.,* mandatory generating resource testing, fuel and steam offtake contract requirements, system reliability, and generating resource maintenance outages). These instances are noted in Attachments A and B in compliance with the January 11 Order.

The resulting DART margin by resource is shown in Figure 1. The DART margin during the strategic self-commit for the period was $790,209,022 which means that market revenues during these self-commitment periods exceeded the production costs of the units as offered to MISO.

The Company has economically dispatched its nuclear units in MISO's Day Ahead market since September 2019, in an effort to provide additional flexibility to the market. During conversations about fuel procurement for nuclear plants, we determined that the timing and amount of fuel procured during refueling could not be altered by the economic dispatch efforts that the Company had undertaken. Rather, the fuel costs for nuclear were treated as a fixed cost in this analysis, and these fuel costs were removed from the incremental offer prices for nuclear effective June 27, 2020. For purposes of this report, the estimated nuclear fuel costs are treated as fixed costs, and are included as "Remaining Fuel Costs" in the reporting as of June 27, 2020.

Figure 1: 2022 DART Margin for Non-Discretionary Self-Commit of Baseload Units

2022 DART Margin for Non-Discretionary Self-Commit of Baseload Units							
Net MISO Payment Less Production Cost - (cost)/benefit							
NSP.KING1	NSP.SHERCO1	NSP.SHERCO2	NSP.SHERCO3	NSP.PRISL1	NSP.PRISL2	NSP.MNTCEL1	TOTAL
$ 11,069,678	$ 67,008,419	$ 32,288,153	$ 41,008,353	$ 208,713,117	$ 207,898,946	$ 222,222,357	$ 790,209,022
Net MISO Payment Less Total Production Cost Including Remaining Unit Fuel Cost - (cost)/benefit							
NSP.KING1	NSP.SHERCO1	NSP.SHERCO2	NSP.SHERCO3	NSP.PRISL1	NSP.PRISL2	NSP.MNTCEL1	TOTAL
$ 11,069,678	$ 67,008,419	$ 32,288,153	$ 41,008,353	$ 171,811,774	$ 169,854,954	$ 186,797,630	$ 679,838,960

We believe this DART margin data represents an appropriate metric for determining whether the Company's self-commitment decisions were beneficial, and the data provided in Figure 1 demonstrates that the Company's customers received value as a result of its decision to self-commit the baseload resources.

The Company has provided detailed analysis of the consequences of self-commitment of its generators in Attachments A, B and C, which include the required hourly, monthly or annual data items a through z, by unit, as detailed in Attachment A of the

January 11 Order,[1] in addition to items noted in Order Point Nos. 8b, 8c, and 9 of the December 1 Order. We note that, when the Company submits a commit status of "Must-Run" for a unit (self-commits), it designates a resource as committed to MISO per Xcel Energy's request and makes the resource available for dispatch by MISO. To self-schedule for energy, Xcel Energy would have to submit a resource to operate at a specific MW value or operating level for energy and set the energy dispatch status to "Self-Schedule." For January – December 2022, Xcel Energy did not find any instances of self-scheduling of resources for energy; therefore, Attachments A-C do not capture the consequences of self-scheduling. The attachments do, however, present the impact of self-commitment.

As stated above, the analysis only includes instances when Xcel Energy strategically self-commits select baseload units. There are circumstances when self-commit is unavoidable, such as testing, operating directives from MISO or Transmission Operations, or third-party contractual requirements. Strategic decisions to self-commit units are based on a number of considerations, including MISO model limitations, contractual obligations, and system reliability.

Xcel Energy also strongly considers reliability when making decisions about self-committing units. Extreme weather conditions, elevated MISO conditions, high load days, tight capacity conditions, and transmission requirements increase reliability risks and are factored into our decisions to self-commit units.

Xcel Energy constantly monitors system conditions, looking for opportunities to lower customer costs. At times when we believe system reliability risks are low, as when renewable generation is forecasted to be high, loads are forecasted to be low, and plant availability is high, we have offered baseload units into MISO as economic, making them available to be de-committed. As noted above, since 2019 the Company's practice is to offer our coal facilities with an economic commit status.

In addition, Xcel Energy continually evaluates opportunities to provide resource flexibility to MISO. Widening unit dispatch ranges, improving unit start capabilities, reducing cycling times, and exploring nuclear flexible operations gives MISO more opportunities to commit and dispatch our units economically.

Xcel Energy also seeks market changes that will accommodate better economic commit and dispatch opportunities. The development of a multi-day financial

[1] Attachment A provides items a-t from the January 11 Order for coal units; Attachment B provides items a-t for nuclear units; Attachment C provides items u-z. We note that due to file size, only the first lines of each hourly tab include live formulas.

commitment market design in MISO will optimize these long lead resources, such as coal units, across multiple days while still honoring their operating parameters. A multi-day commitment process is able to evaluate reliability risks and minimize total production costs over a longer time horizon, making it a superior process and better suited to also optimize baseload resources with slower start-up times and longer minimum down times. Without a multi-day commitment there is less assurance that the market will commit and de-commit these units in an optimal manner on behalf of customers. Xcel Energy has been and remains an advocate for a multi-day commitment process for multiple years. At this time, MISO's Roadmap does not identify a multi-day commitment process as a project for this year or next.

1. Minimum Operating Levels

NSP continuously seeks to improve operational flexibility for its generating units and as part of this effort, NSP has worked to reduce the minimum required loading at Sherco 1 and Sherco 2 from 260 MW to 215 MW. This increased "turndown capability" produced an estimated $261,000 in customer benefits in 2022. These benefits are calculated by comparing MISO Day Ahead/Real Time energy margins when the unit was in turndown to the estimated margins had the unit only dispatched to its previous economic minimum. Margins are based on MISO estimated energy settlement less unit production costs. Lower operational minimums accommodate additional renewables generation, decreases carbon emissions, and reduces production costs.

2. Changes Plant Operating Procedures and Physical Modifications

Order Point 8e of the December 1 Order requires utilities to provide descriptions of changes to operating procedures and physical modifications to units to ensure plants are becoming more flexible to meet upcoming challenges as applicable.

The Company's base load coal plants, Sherco and King, perform testing, boiler tuning, and revised operating procedures to lower the minimum operating load and increase ramp rate within equipment and environmental limits. This allows the units to stay online versus shutting down during short duration of low electric grid loads or high renewable energy production. King which was the first unit assigned to Seasonal Dispatch, created a Seasonal Dispatch Best Practices document to address maintenance, layup, and equipment management during extended shutdowns.

In addition, Xcel Energy continually evaluates opportunities to provide resource flexibility to MISO, which may lessen the need to self-commit and self-schedule units. Widening unit dispatch ranges, improving unit start capabilities, reducing

cycling times, and exploring Real-Time nuclear flexible operations gives MISO more opportunities to commit and dispatch our units economically.

3. Best and Worst Case Scenario Analysis

Order Point 10 of the December 1 Order requires the utilities to work together to develop a consistent method for estimating the best-case and worst-case potential for economic commitment for each plant. The utilities met and agreed that the Best case scenario can be represented by a year-round economic commitment scenario and a Worst case scenario can be represented by a year-round self-commitment or must-run scenario.

In the worst case scenario, we assumed all historic outages and all the offered costs and adders for each unit for the year. For all hours outside of the outages, the unit was must run by the model. In the Best case scenario, we assumed all existing constraints, such as outages and nondiscretionary must-runs of the units, but allowed the units to be economically committed all other hours. We also assumed all offered costs and adders that we had for the year for this case. Commitment decisions by the PLEXOS model were based on the economics of the unit over a 24-hour commit period, similar to how MISO would make commit decisions. In the Economic case, we also calculated an estimated Make Whole Payment to replicate recovery of start costs and losses for the first 24 hours of a unit's operation when the model committed the unit.

The Best and Worst case scenario analysis studies each unit individually relative to a fixed market price curve. The results of this analysis are provided as Attachment D.

In 2022, the Economic case resulted in higher margins than the Must Run case at three of the four coal units. For King, Sherco 1, and Sherco 3, the Economic case resulted in higher net benefits (Profit/Loss) than the Must Run case, whereas the Must Run case resulted in higher benefits for Sherco 2. From March through May of 2022, the Company was utilizing opportunity cost adders in its offers to mitigate coal burns at these plants to ensure fuel supply availability during the highest cost periods. These higher costs are reflected in all the units, but most acutely at King, Sherco 1, and Sherco 3, which the Must Run case highlights. In the Economic case for these units, the Plexos model decommitted them as it was uneconomic for them to operate at market prices during this period. The difference between the two cases shows that the cost savings was enormous relative to the lost revenue. Most of the benefits of the Economic case over the Must Run case for the year was during this period. Sherco 2 was offered as Must Run for most of the period of coal mitigation. For this reason, the two cases at Sherco 2 ran relatively closely from March-April. The

remaining differences at Sherco 2 for the remainder of the year resulted from periods where the Plexos model decommitted the unit for its minimum downtime only to bring the unit back online soon after and incurring a high start cost. There were also instances where the model only considered the units' costs in the next 24-hours to determine the benefits of operating them, rather than considering the benefits of operating the units over multiple days. The results of these instances can be seen where the Must Run case results in higher net benefits than the Economic case in Attachment D. This is similar to how MISO considers these unit, which can result in units missing opportunities had they been online instead.

Figure 2: Unit Day Ahead Margins in Best, Worst and Actual Cases

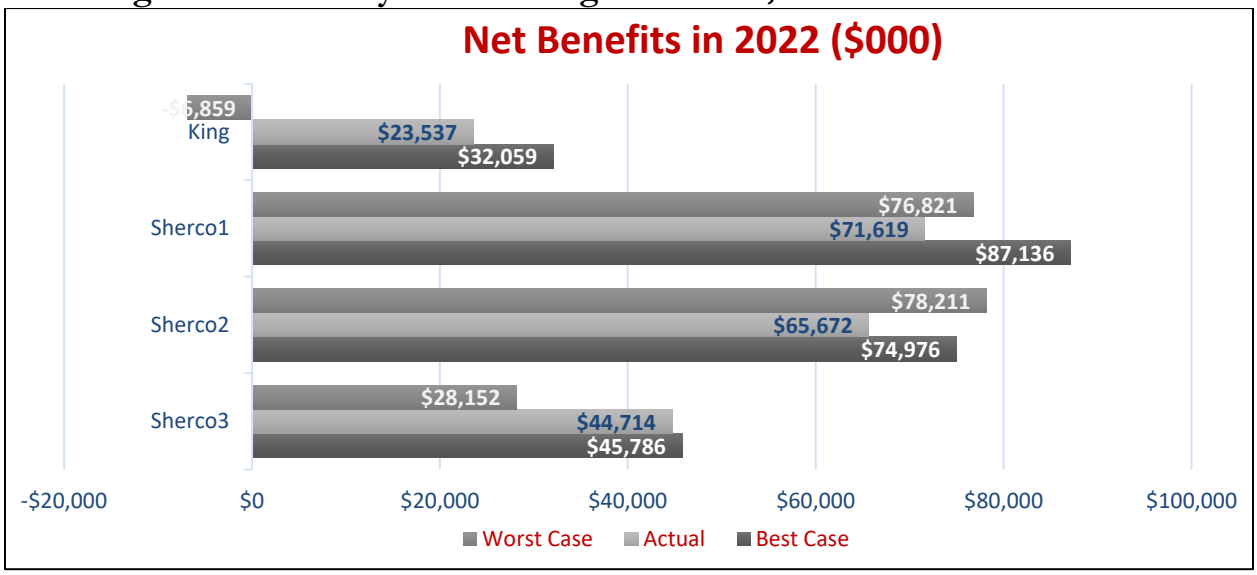

Figure 2 is a comparison of unit Day Ahead margins in the Best, Worst, and Actual cases. At King and Shero 3, the Worst case losses relative to actual benefits reflects the large costs of coal mitigation between March and May. In the Worst case, the units are Must Run and incurring large costs during that period. In the Actual and Best case, the units are cycled offline and avoid those costs. Sherco 1 and Sherco 2 margins were better in the Worst (Must Run) case than the Actual case largely because of dispatch differences between the Plexos model and actual MISO day ahead awards. For Sherco 2, some of those gains are tempered by losses in the Must Run case that did not occur in the Actuals case. For Sherco 2, the unit also missed some economic opportunity in early summer when it was not committed by MISO during a period of higher LMPs.

Similarly, where the Actual case underperforms to the Best case as all the units did, much of the differences are attributable to how Plexos dispatches versus the MISO DA awards.

B. Analysis of Economic and Seasonal Dispatch Options at Sherco Units 1 and 3

1. Impacts of SMMPA Partnership on Dispatch of Sherco 3

As discussed in our 2020 annual report, the original joint operating agreement between Xcel Energy and Southern Minnesota Municipal Power Agency (SMMPA) provided little opportunity to economically commit Sherco 3 to the MISO market. Under the agreement, each partner was its own Market Participant managing their pro-rata offer of the plant to MISO. With this arrangement, if the partners offer their respective share of the unit economically to MISO, MISO may commit one share of the facility, but not the other. However, the commitment of one share of Sherco 3 necessitates the operation of the other partner's share, regardless of economic opportunities to decommit the other portion, as the operating minimum of the total facility requires both shares.

Both Xcel Energy and SMMPA recognize that there are opportunities to offering Sherco 3 economically to MISO; therefore, both parties came to an agreement on how to offer economically to the market. Xcel Energy and SMMPA signed a Sherco 3 MISO Coordination Agreement, effective March 1, 2021, to combine each company's share of the plant into a single asset to be offered to MISO. Xcel Energy is the Market Participant for the total Sherco 3 unit in the MISO market, managing its registration, offer, metering, and settlements. The agreement coordinates the exchange of participants' costs and fuel requirements in order to effectively manage unit parameters into a single offer package. As with our other coal units, there will be instances where Sherco 3 will have to be self-committed, such as for testing, fuel contract mandates and system reliability, but this new arrangement does offer much more opportunity for economic cycling as MISO will be committing the total unit, as opposed to each individual partner's share.

As a result of this agreement, Sherco 3 was first offered economically to MISO on March 19, 2021. The result of this strategy versus self-committing the unit for 2022 was a gain of $17.7 million in margins at the unit, meaning that the unit's margins could have been $17.7 million lower if we had self-committed the unit in 2022. The gains over the Must Run case were wholly in March-May when offered costs included coal mitigation efforts. In the few months where it would have been beneficial to must run Sherco 3, MISO had not committed the unit and market prices exceeded the unit's offered costs. MISO may not have committed the unit because MISO does not have a multi-day commit model, which we have advocated for and discussed elsewhere in this docket. The unit was profitable in 2022, with Xcel Energy's share of

Sherco 3 DART margins at $42.6 million in 2022. The economic strategy did result in a reduction of an estimated 1.38 billion pounds of carbon dioxide (CO2) emissions due to lower generation.

As discussed in our January 20, 2022 letter in this docket, SMMPA requested that Sherco 3 be committed on a Must Run basis through February 2022 to ensure the unit would be available for any extreme weather event for the remainder of the winter season. We again began to offer Sherco 3 on an economic basis in mid-March, 2022. MISO cycled the unit off later that month.

Citing concerns of economic loss when Sherco 3 was offline, the lack of MISO multi-day unit commit modeling, wear and tear on the unit due to increased cycling, and the risk of reduced capacity accreditation, SMMPA notified Xcel of its intent to terminate the Coordination Agreement on November 29, 2022. As a result, Sherco 3 is currently being offered as Must Run with periods of discretionary Economic commitments. Xcel Energy remains committed to working with our SMMPA partners on an agreement that is mutually beneficial to all parties and our customers.

2. Analysis of Sherco 1 Economic Dispatch Feasibility and Auxiliary Boiler Project Update

The Commission's December 1 Order directed the Company to update the Commission and stakeholders in the next annual report on when milestones in the Sherco auxiliary boiler project are reached, including: completion of boiler construction; approval, denial, or delay of the Air Emission Permit amendment; decisions made by Xcel Energy and/or Liberty Paper, Inc. relating to the sources of steam used by Liberty Paper, Inc.; and updates to the feasibility and use of economic commitment at Sherco Unit 1. As discussed in our 2021 annual report, we are adding natural gas firing capability to the two new Auxiliary Boilers (ABs) at the Sherco plant. Construction of natural gas capability for the ABs was completed on schedule by the end of 2022. Performance testing and tuning has been completed to achieve smooth and stable combustion over the load range.

We are expecting a draft of our requested air permit amendment from the MPCA March 3, 2023. After the public comment period and Environmental Protection Agency (EPA) review, we expect the approved permit by the end of the second quarter or early third quarter of 2023.

We plan to keep Sherco 1 available to provide auxiliary stream until the new ABs are available for firing on natural gas under our approved air permit amendment in the third quarter of 2023. Sherco 2 is planned to cease operation December 31, 2023

3. Annual Carbon Dioxide Emissions and Avoided Emissions

Table 1 below shows the total carbon dioxide emissions by unit in 2022 as required by Order Point No. 8a of the December 1 Order in addition to avoided carbon dioxide emissions due to economic commitment as required by Order Point No. 7a of the November 17 Order. Emissions for Sherco 3 reflect Xcel Energy's share.

Table 1: 2022 CO^2 Emissions by Unit

Unit	Actual Tons	Avoided Tons
King	1,385,510	476,869
Sherco 1	3,955,004	69,911
Sherco 2	3,416,090	66,640
Sherco 3	2,423,237	119,360

4. Equivalent Forced Outage Rates

Per Order Point No. 8d of the December 1 Order and Order Point No. 7b of the November 17 Order, we provide the Equivalent Forced Outage Rates (EFORs) by month as Attachment E.

5. Conclusion

As discussed above, at this time we are not able to offer additional units on a seasonal basis.. Due to the terminatin of the Coordination Agreement, Sherco 3 is not currently being offered on an economic basis. We will look for opportunities to offer Sherco 1 on an economic basis once natural gas capabilities at the ABs are available, which we expect later this year as discussed above. We will continue to assess the status of these units and our capacity needs with a goal of being able to offer these resources into the market in the best interest of our customers.

C. Analysis of Seasonal Dispatch Plan Implementation at King and Sherco 2

1. Comparison of Must-Commit, Economic Commit and Seasonal Commit Scenarios and Emissions

In compliance with the July 15 Order, we provide the following analysis of our Unit Commitment Plan for King and Sherco 2 (or 1), under which we seasonally dispatched those units beginning in fall 2020. Seasonal Operation was occurring from March-May and again from September-November. However, as noted above, the

King and Sherco 2 are not currently operating on a seasonal basis.. In 2022, King was offered under the seasonal operating strategy from March 5-24. Sherco 2 was in outage through most of March. During its outage, Sherco 1 was Must Run to serve steam obligations.

This seasonal analysis for King was performed using a PLEXOS run in which operational parameters are utilized and actual constraints are included. The model optimizes against the historical DA LMPs at the commercial pricing node of each seasonally operated unit, and assumes that LMP is unaffected by unit commit.

Figure 3 compares the modeled production costs during seasonal operations compared to modeled production costs from must commit and economic commitment. This figure also shows the modeled CO2 emissions savings due to the seasonal operations plan relative to must run and economic commitment for King and Sherco 2 (or 1).

Xcel Energy performed what-if scenario modeling of production costs compared to historic DA LMP using the PLEXOS model. This analysis includes three scenarios: base, must run and economic. The base case models the actual commitment of King during seasonal dispatch. During seasonal operations, MISO is allowed to access the seasonal operation units if MISO declares an emergency. No emergencies occurred during the seasonal operations timeframe, therefore King is modeled as being in outage during the timeframe in which they were seasonally operated.

The must run and economic cases enforce the operating parameters used during the base case, but alter the commit status to create a what-if scenario. For the must run case, the seasonal dispatch unit is forced online in the model during the seasonal operations timeframe. For the economic case, the model is free to commit and decommit the seasonal operations unit, respecting the unit parameters included in the model. Finally the must run and economic cases are compared to the base case, as shown in Figure 3. The model results indicate that seasonal operations was (not) successful from both an economic and environmental point of view for both King and Sherco.

King's base case (representing seasonal operations) compared favorably to the must run scenario, with $8.0 million higher margin resulting from seasonal operations. The model also showed seasonal operations saved 432 million pounds of carbon dioxide (CO2) emissions over a must run scenario. The Plexos model did not economically commit King during the seasonal operations period.

Seasonal operations did not occur in 2022 at either Sherco 1 or Sherco 2, therefore, the units were not studied.

Figure 3: Comparison of Econ and Must Run to Seasonal Operations

		MR Less BASE									ECON less BASE								
		Generation (MWh)	Fuel Cost ($000)	O&M Cost ($000)	Start Costs ($000)	Total Costs ($000)	Revenue ($000)	Profit+/Loss- ($000)	CO2 (000 lb)	run hours	Generation (MWh)	Fuel Cost ($000)	O&M Cost ($000)	Start Costs ($000)	Total Costs ($000)	Revenue ($000)	Profit+/Loss- ($000)	CO2 (000 lb)	run hours
	Mar-22	149,040	3,668	9,223	-	12,891	4,843	(8,049)	332,657	432	-	-	-	-	-	-	-	-	-
	Apr-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	May-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
King	Sep-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nov-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	149,040	3,668	9,223	-	12,891	4,843	(8,049)	332,657	432	-	-	-	-	-	-	-	-	-

Figure 4 shows the actual operations of the coal units by quarter for 2022, including offline hours (outage or reserve shutdown), starts by type (MISO economic, MISO reliability, Company must run) and duration of each start by type.

Due to economic decommit or idling for seasonal operation, King was offline in reserve shutdown (RS) for 3,837 hours out of the 8,760 hours during 2022, or 43.8 percent of hours during 2022. King was only self-committed by the Company on four occasions in 2022. MISO economically committed King five times for economics, and one time for reliability.

As noted above, Sherco 1 and 2 were not seasonal idled in 2022.

Figure 4: Operating Statistics by Quarter

Unit	Date	Run Hours			Offline Hours		Starts by Type			
		MISO ECON	MISO REL	COMP MR	RS	OUT	MISO ECON	MISO REL	COMP MR	TOTAL
KING	Q1	571	-	514	902	173	1	0	2	3
	Q2	44	-	178	1,738	224	2	0	1	3
	Q3	592	32	229	545	810	1	1	0	2
	Q4	140	-	585	652	831	1	0	1	2
	Total	**1,347**	**32**	**1,506**	**3,837**	**2,038**	**5**	**1**	**4**	**10**

2. Capital and O&M Costs

As discussed above, during 2022 only King was idled and only for a few weeks in March. As a result, seasonal operations in 2022 had a very limited impact on costs.

3. Workforce Impacts

No employees were negatively impacted due to seasonal operations at King and Sherco 2. As noted above, seasonal idling was minimal in 2022.

As we discussed in our April 1, 2020 supplement in Docket No. E002/M-19-809, plant managers have been engaging with employees regarding the future of our coal generators for several years. As part of those communications, we discussed the likelihood that coal plants would shut down before their expected retirement date consistent with our recently approved integrated resource plan. We continue to communicate with employees to keep them informed.

D. Additional Compliance Items

1. Wind Curtailment

Per Order Point No. 7c of the November 17 Order, we provide monthly energy produced and curtailed from utility owned and contractcted wind facilities for each facility as Attachment F. We note that this information is also provided as Part C, Attachment 2 of our March 1, 2022 Annual Fuel Forecast True-up Report for 2022 in Docket No. E002/AA-21-295.

CONCLUSION

We respectfully request that the Commission accept this filing in compliance with the November 13, 2019 ORDER ACCEPTING 2017-2018 ELECTRIC REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket No. E999/AA-18-373, the February 7, 2019 ORDER ACCEPTING 2016-2017 REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket Nos. E999/AA-17-492 and E999/AA-18-373, the January 11, 2021 ORDER EVALUATING SELF-COMMITMENT AND SELF-SCHEDULING REPORTS AND ESTABLISHING ADDITIONAL FILING REQUIREMENTS in Docket Nos. E999/CI-19-704 and E002/M-19-809, the December 1, 2021 ORDER ACCEPTING REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket No. E999/CI-19-704, the November 17, 2022 ORDER in Docket No. E999/CI-19-704, and the July 15, 2019 ORDER APPROVING PLAN AND REQUIRING FILING in Docket No. E002/M-19-809.

Dated: March 1, 2023

Northern States Power Company

Attachment A is being submitted as a live file.

Attachment B is being submitted as a live file.

Attachment C is being submitted as a live file.

		MR						ECON								ECON less MR						
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	P/L with Estimated MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	P/L with Estimated MWP	CO2 (000 lb)	run hours
KING	Jan-22	286,121	7,659,681	10,817,711	3,158,030	638,623	578	242,670	6,790,444	9,210,254	2,419,811	-	2,419,811	541,639	490	(43,451)	(869,237)	(1,607,457)	(738,219)	(738,219)	(96,983)	(88)
	Feb-22	295,916	8,016,854	11,670,473	3,653,619	660,485	672	243,842	6,886,374	10,149,481	3,263,107	-	3,263,107	544,254	539	(52,075)	(1,130,480)	(1,520,992)	(390,511)	(390,511)	(116,231)	(133)
	Mar-22	271,532	20,120,294	9,278,450	(10,841,844)	606,060	744	23,884	630,825	858,584	227,759	-	227,759	53,309	47	(247,648)	(19,489,469)	(8,419,867)	11,069,602	11,069,602	(552,751)	(697)
	Apr-22	249,668	22,399,692	11,044,437	(11,355,255)	557,258	720	-	-	-	-	-	-	-	-	(249,668)	(22,399,692)	(11,044,437)	11,355,255	11,355,255	(557,258)	(720)
	May-22	256,680	29,198,386	12,549,523	(16,648,862)	572,910	744	-	-	-	-	-	-	-	-	(256,680)	(29,198,386)	(12,549,523)	16,648,862	16,648,862	(572,910)	(744)
	Jun-22	171,627	10,533,050	8,446,032	(2,087,017)	383,070	454	97,791	3,590,581	4,435,309	844,728	-	844,728	218,269	245	(73,836)	(6,942,469)	(4,010,723)	2,931,746	2,931,746	(164,802)	(209)
	Jul-22	180,116	5,414,396	11,228,687	5,814,290	402,019	364	168,521	5,073,879	10,663,397	5,589,519	-	5,589,519	376,139	339	(11,595)	(340,518)	(565,290)	(224,772)	(224,772)	(25,880)	(25)
	Aug-22	244,440	7,167,851	15,698,070	8,530,219	545,590	491	223,778	6,820,010	14,607,382	7,787,372	-	7,787,372	499,471	448	(20,663)	(347,841)	(1,090,688)	(742,847)	(742,847)	(46,119)	(43)
	Sep-22	259,249	7,916,207	14,157,870	6,241,663	578,643	541	217,804	6,828,439	12,364,644	5,536,204	-	5,536,204	486,138	448	(41,445)	(1,087,767)	(1,793,226)	(705,459)	(705,459)	(92,505)	(93)
	Oct-22	80,764	2,330,532	3,514,450	1,183,918	180,265	168	56,464	1,787,822	2,679,929	892,107	-	892,107	126,027	115	(24,300)	(542,710)	(834,521)	(291,811)	(291,811)	(54,238)	(53)
	Nov-22	199,590	6,005,878	7,301,467	1,295,589	445,485	455	120,923	3,995,099	5,451,688	1,456,589	-	1,456,589	269,899	255	(78,668)	(2,010,778)	(1,849,779)	161,000	161,000	(175,586)	(200)
	Dec-22	336,600	9,914,725	14,111,837	4,197,112	751,291	744	299,554	9,093,185	13,135,058	4,041,872	-	4,041,872	668,604	654	(37,046)	(821,539)	(976,779)	(155,240)	(155,240)	(82,687)	(90)
	Total	2,832,303	136,677,545	129,819,008	**(6,858,537)**	6,321,699	6,675	1,695,228	51,496,658	83,555,727	32,059,069	-	**32,059,069**	3,783,750	3,580	(1,137,074)	(85,180,887)	(46,263,281)	38,917,606	**38,917,606**	(2,537,950)	(3,095)

		MR						ECON								ECON less MR						
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	P/L with Estimated MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	P/L with Estimated MWP	CO2 (000 lb)	run hours
Sherco1	Jan-22	487,780	10,926,476	17,915,986	6,989,510	1,159,452	744	487,780	10,926,476	17,915,986	6,989,510	-	6,989,510	1,159,452	744	-	-	-	-	-	-	-
	Feb-22	334,918	7,831,022	12,939,017	5,107,995	796,099	672	334,918	7,831,022	12,939,017	5,107,995	-	5,107,995	796,099	672	-	-	-	-	-	-	-
	Mar-22	396,065	9,541,826	12,903,440	3,361,613	941,445	744	389,825	8,940,714	12,649,001	3,708,287	-	3,708,287	926,613	720	(6,240)	(601,112)	(254,439)	346,673	346,673	(14,832)	(24)
	Apr-22	147,420	15,029,575	6,404,731	(8,624,844)	350,417	567	-	-	-	-	-	-	-	-	(147,420)	(15,029,575)	(6,404,731)	8,624,844	8,624,844	(350,417)	(567)
	May-22	223,427	9,413,705	10,381,803	968,098	531,086	744	186,507	4,879,414	8,305,229	3,222,037	-	3,222,037	443,327	602	(36,920)	(4,534,291)	(2,076,573)	2,253,940	2,253,940	(87,759)	(142)
	Jun-22	440,535	10,687,519	23,166,909	12,479,390	1,047,152	720	426,062	10,604,758	22,865,827	12,261,069	-	12,261,069	1,012,749	678	(14,473)	(82,761)	(301,082)	(218,321)	(218,321)	(34,402)	(42)
	Jul-22	428,463	11,020,680	23,768,754	12,748,074	1,018,457	672	428,463	11,020,680	23,768,754	12,748,074	-	12,748,074	1,018,457	672	-	-	-	-	-	-	-
	Aug-22	467,820	11,866,119	26,228,406	14,362,287	1,112,008	744	467,820	11,866,119	26,228,406	14,362,287	-	14,362,287	1,112,008	744	-	-	-	-	-	-	-
	Sep-22	370,071	9,279,941	22,086,289	12,806,348	879,658	578	370,071	9,279,941	22,086,289	12,806,348	-	12,806,348	879,658	578	-	-	-	-	-	-	-
	Oct-22	343,429	8,743,089	14,149,021	5,405,932	816,331	576	319,949	8,365,812	13,382,142	5,016,329	-	5,016,329	760,519	527	(23,480)	(377,277)	(766,880)	(389,603)	(389,603)	(55,812)	(49)
	Nov-22	352,078	8,954,764	12,377,834	3,423,070	836,888	720	337,571	8,782,690	12,018,405	3,235,715	-	3,235,715	802,405	685	(14,507)	(172,074)	(359,430)	(187,355)	(187,355)	(34,483)	(35)
	Dec-22	416,548	10,590,760	18,384,065	7,793,305	990,133	744	412,742	10,616,159	18,287,543	7,671,384	7,146	7,678,530	981,087	736	(3,806)	25,399	(96,522)	(121,921)	(114,775)	(9,047)	(8)
	Total	4,408,551	123,885,477	200,706,256	**76,820,779**	10,479,126	8,225	4,161,705	103,113,785	190,446,599	87,129,036	7,146	**87,136,182**	9,892,373	7,358	(246,846)	(20,771,692)	(10,259,656)	10,308,257	**10,315,403**	(586,753)	(867)

		MR						ECON								ECON less MR						
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	P/L with Estimated MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	P/L with Estimated MWP	CO2 (000 lb)	run hours
Sherco2	Jan-22	491,826	10,899,968	17,991,719	7,091,751	1,157,757	740	477,363	10,889,237	17,665,822	6,776,585	-	6,776,585	1,123,713	716	(14,463)	(10,731)	(325,897)	(315,166)	(315,166)	(34,045)	(24)
	Feb-22	218,355	5,775,115	9,147,951	3,372,837	514,008	489	175,438	4,419,980	7,899,321	3,479,341	-	3,479,341	412,982	329	(42,917)	(1,355,135)	(1,248,631)	106,504	106,504	(101,027)	(160)
	Mar-22	33,923	1,066,616	1,337,721	271,105	79,855	128	33,923	1,066,616	1,337,721	271,105	-	271,105	79,855	128	-	-	-	-	-	-	-
	Apr-22	191,841	5,001,642	8,297,120	3,295,478	451,593	720	191,841	5,001,642	8,297,120	3,295,478	-	3,295,478	451,593	720	-	-	-	-	-	-	-
	May-22	130,154	3,533,413	5,948,368	2,414,954	306,383	384	104,762	2,861,804	4,669,520	1,807,716	-	1,807,716	246,611	288	(25,392)	(671,609)	(1,278,848)	(607,238)	(607,238)	(59,773)	(96)
	Jun-22	449,945	10,700,908	23,495,906	12,794,998	1,059,169	720	447,182	10,746,906	23,452,908	12,706,002	-	12,706,002	1,052,668	711	(2,762)	45,998	(42,999)	(88,996)	(88,996)	(6,502)	(9)
	Jul-22	487,858	12,023,255	26,997,244	14,973,989	1,148,417	744	478,792	12,132,716	26,805,383	14,672,667	-	14,672,667	1,127,076	720	(9,066)	109,461	(191,861)	(301,322)	(301,322)	(21,340)	(24)
	Aug-22	461,250	11,464,346	25,362,986	13,898,640	1,085,781	720	378,873	9,896,681	23,071,029	13,174,348	-	13,174,348	891,866	577	(82,377)	(1,567,665)	(2,291,957)	(724,292)	(724,292)	(193,915)	(143)
	Sep-22	80,185	2,256,153	2,856,323	600,170	188,754	150	80,185	2,256,153	2,856,323	600,170	-	600,170	188,754	150	-	-	-	-	-	-	-
	Oct-22	456,356	11,053,137	18,900,526	7,847,390	1,074,262	744	444,215	11,116,459	18,578,274	7,461,814	-	7,461,814	1,045,681	720	(12,142)	63,323	(322,252)	(385,575)	(385,575)	(28,581)	(24)
	Nov-22	360,520	9,005,017	12,614,700	3,609,683	848,664	720	274,250	7,479,004	10,481,351	3,002,347	-	3,002,347	645,583	497	(86,271)	(1,526,013)	(2,133,349)	(607,336)	(607,336)	(203,081)	(223)
	Dec-22	425,873	10,621,580	18,661,116	8,039,536	1,002,505	744	365,008	9,513,671	17,242,230	7,728,559	-	7,728,559	859,228	588	(60,866)	(1,107,910)	(1,418,887)	(310,977)	(310,977)	(143,277)	(156)
	Total	3,788,084	93,401,148	171,611,679	**78,210,531**	8,917,149	7,003	3,451,830	87,380,867	162,357,000	74,976,132	-	**74,976,132**	8,125,608	6,144	(336,254)	(6,020,281)	(9,254,679)	(3,234,399)	**(3,234,399)**	(791,541)	(859)

		MR						ECON								ECON less MR						
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	P/L with Estimated MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	P/L with Estimated MWP	CO2 (000 lb)	run hours
Sherco3	Jan-22	368,974	8,085,731	13,501,793	5,416,062	812,480	744	368,974	8,085,731	13,501,793	5,416,062	-	5,416,062	812,480	744	-	-	-	-	-	-	-
	Feb-22	266,686	6,027,439	10,154,026	4,126,587	587,243	672	266,686	6,027,439	10,154,026	4,126,587	-	4,126,587	587,243	672	-	-	-	-	-	-	-
	Mar-22	309,819	9,542,458	9,972,931	430,473	682,221	744	258,990	6,633,049	8,241,800	1,608,750	-	1,608,750	570,296	574	(50,829)	(2,909,409)	(1,731,131)	1,178,278	1,178,278	(111,925)	(170)
	Apr-22	139,184	12,930,913	5,771,847	(7,159,067)	306,483	589	-	-	-	-	-	-	-	-	(139,184)	(12,930,913)	(5,771,847)	7,159,067	7,159,067	(306,483)	(589)
	May-22	166,174	16,804,721	7,958,790	(8,845,931)	365,915	702	34,141	834,768	1,859,095	873,624	-	873,624	75,178	143	(132,033)	(15,969,953)	(6,099,695)	9,719,555	9,719,555	(290,737)	(559)
	Jun-22	298,130	7,352,830	15,055,576	7,702,746	656,481	641	287,860	7,253,118	14,614,688	7,361,570	-	7,361,570	633,867	613	(10,270)	(99,712)	(440,888)	(341,176)	(341,176)	(22,615)	(28)
	Jul-22	368,293	8,904,088	20,121,399	11,217,311	810,981	744	368,293	8,904,088	20,121,399	11,217,311	-	11,217,311	810,981	744	-	-	-	-	-	-	-
	Aug-22	198,289	5,688,920	9,440,046	3,751,126	436,631	454	198,289	5,688,920	9,440,046	3,751,126	-	3,751,126	436,631	454	-	-	-	-	-	-	-
	Sep-22	186,878	6,551,072	10,504,021	3,952,950	411,506	531	186,639	6,625,867	10,498,050	3,872,183	-	3,872,183	410,979	530	(239)	74,796	(5,971)	(80,767)	(80,767)	(526)	(1)
	Oct-22	131,409	4,400,602	5,851,234	1,450,632	289,364	336	131,409	4,400,602	5,851,234	1,450,632	-	1,450,632	289,364	336	-	-	-	-	-	-	-
	Nov-22	194,696	5,115,829	7,031,859	1,916,030	428,720	496	194,696	5,115,829	7,031,859	1,916,030	-	1,916,030	428,720	496	-	-	-	-	-	-	-
	Dec-22	235,610	6,087,387	10,279,983	4,192,596	518,813	542	235,610	6,087,387	10,279,983	4,192,596	-	4,192,596	518,813	542	-	-	-	-	-	-	-
	Total	2,864,140	97,491,991	125,643,506	**28,151,516**	6,306,837	7,195	2,531,585	65,656,799	111,593,974	45,786,471	-	**45,786,471**	5,574,550	5,848	(332,555)	(31,835,191)	(14,049,532)	17,634,956	**17,634,956**	(732,286)	(1,347)

Unit Equivalent Forced Outage Rates (%) - 2022	January	February	March	April	May	June	July	August	September	October	November	December	2022 Total
[redacted]	[PROTECTED DATA BEGINS												
King													
Monticello													
Prairie Island 1													
Prairie Island 2													
Sherco 1													
Sherco 2													
Sherco 3													

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Total PPA
2022 AAA Period

Production Month	Date Paid: Delivered MWh	Date Paid: Lost MWh	Wind Production Delivered: MWh Delivered	Wind Production Delivered: Amount Xcel Energy Paid	Lost Production: Lost MWh	Lost Production: Amount Xcel Energy Paid	Total Xcel Energy Paid
Jan-21			*415,276.96*	*$ 12,790,075.17*	*55,813.10*	*$ 2,807,900.43*	*$ 15,597,975.60*
Feb-21			*299,731.39*	*$ 9,077,653.32*	*33,081.74*	*$ 1,494,249.98*	*$ 10,571,903.30*
Mar-21			*454,702.83*	*$ 13,823,194.08*	*102,918.72*	*$ 4,570,158.12*	*$ 18,393,352.20*
Apr-21			*452,040.18*	*$ 13,764,354.19*	*95,559.76*	*$ 4,295,598.08*	*$ 18,059,952.27*
May-21			*378,818.38*	*$ 11,076,185.38*	*83,722.64*	*$ 3,810,012.94*	*$ 14,886,198.32*
Jun-21			*279,425.87*	*$ 8,220,002.13*	*53,729.94*	*$ 2,451,113.61*	*$ 10,671,115.74*
Jul-21			*254,534.12*	*$ 6,964,756.60*	*19,170.23*	*$ 842,853.61*	*$ 7,807,610.21*
Aug-21			*334,103.43*	*$ 9,296,401.87*	*45,423.20*	*$ 2,027,854.35*	*$ 11,324,256.22*
Sep-21			*365,006.51*	*$ 10,674,869.41*	*90,261.00*	*$ 4,036,330.17*	*$ 14,711,199.58*
Oct-21			*374,769.54*	*$ 10,876,269.01*	*127,250.80*	*$ 5,717,621.97*	*$ 16,593,890.98*
Nov-21			*475,572.96*	*$ 14,208,437.64*	*117,907.39*	*$ 5,371,503.97*	*$ 19,579,941.61*
Dec-21			*477,025.60*	*$ 15,228,791.71*	*102,492.38*	*$ 4,738,764.29*	*$ 19,967,556.00*
Total-21			*4,561,007.76*	*$ 136,000,990.51*	*927,330.92*	*$ 42,163,961.52*	*$ 178,164,952.03*
Jan-22			*486,114.99*	*$ 15,421,309.72*	*133,508.58*	*$ 6,145,798.49*	*$ 21,567,108.21*
Feb-22			*502,705.35*	*$ 14,769,300.19*	*108,559.97*	*$ 4,988,995.72*	*$ 19,758,295.91*
Mar-22			*514,652.57*	*$ 15,019,353.70*	*92,798.08*	*$ 4,318,981.66*	*$ 19,338,335.36*
Apr-22			*530,699.02*	*$ 15,996,139.35*	*214,574.54*	*$ 9,782,194.55*	*$ 25,778,333.90*
May-22			*366,916.47*	*$ 11,262,896.97*	*109,890.35*	*$ 5,166,458.68*	*$ 16,429,355.65*
Jun-22			*350,175.92*	*$ 10,518,548.04*	*63,910.23*	*$ 3,115,800.38*	*$ 13,583,670.96*
Jul-22			*301,204.95*	*$ 8,932,747.36*	*33,917.25*	*$ 1,645,347.40*	*$ 10,529,413.05*
Aug-22			*313,056.66*	*$ 9,541,612.85*	*17,553.49*	*$ 841,351.23*	*$ 10,382,964.08*
Sep-22			*363,404.50*	*$ 11,401,827.49*	*58,496.79*	*$ 2,698,650.21*	*$ 14,100,477.70*
Oct-22			-	$ -	-	$ -	$ -
Nov-22			-	$ -	-	$ -	$ -
Dec-22			-	$ -	-	$ -	$ -
Total-22			*3,728,930.44*	*$ 112,863,735.67*	*833,209.27*	*$ 38,703,578.32*	*$ 151,467,954.82*

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - PPA Curtailment Reason Code 3 (MISO)
2022 AAA Period

	Date Paid		Wind Production Delivered		Lost Production		
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Total Xcel Energy Paid
Jan-21			286,239.78	$ 8,608,971.51	55,813.10	$ 2,807,900.43	$ 11,416,871.94
Feb-21			207,036.82	$ 5,238,392.38	33,081.74	$ 1,494,249.98	$ 6,732,642.36
Mar-21			313,731.84	$ 7,958,889.42	102,918.72	$ 4,570,158.12	$ 12,529,047.54
Apr-21			359,879.41	$ 10,295,738.72	95,559.76	$ 4,295,598.08	$ 14,591,336.80
May-21			335,682.76	$ 9,476,493.54	83,722.64	$ 3,810,012.94	$ 13,286,506.48
Jun-21			244,634.08	$ 6,801,152.64	53,729.94	$ 2,451,113.61	$ 9,252,266.25
Jul-21			188,634.61	$ 4,407,043.28	19,170.23	$ 842,853.61	$ 5,249,896.89
Aug-21			279,344.49	$ 7,183,597.10	45,423.20	$ 2,027,854.35	$ 9,211,451.45
Sep-21			317,149.99	$ 8,632,740.85	90,261.00	$ 4,036,330.17	$ 12,669,071.02
Oct-21			322,379.24	$ 8,637,684.25	127,250.80	$ 5,717,621.97	$ 14,355,306.22
Nov-21			409,323.89	$ 11,381,625.18	117,907.39	$ 5,371,503.97	$ 16,753,129.15
Dec-21			413,313.74	$ 12,568,403.16	102,492.38	$ 4,738,764.29	$ 17,307,167.45
Total-21			3,677,350.63	$ 101,190,732.03	927,330.92	$ 42,163,961.52	$ 143,354,693.55
Jan-22			421,262.70	$ 12,660,937.24	133,508.58	$ 6,145,798.49	$ 18,806,735.73
Feb-22			444,805.98	$ 12,491,211.87	108,559.97	$ 4,988,995.72	$ 17,480,207.59
Mar-22			449,872.63	$ 12,203,323.15	92,798.08	$ 4,318,981.66	$ 16,522,304.81
Apr-22			449,668.29	$ 12,480,199.83	214,574.54	$ 9,782,194.55	$ 22,262,394.38
May-22			331,572.70	$ 9,590,629.65	109,890.35	$ 5,166,458.68	$ 14,757,088.33
Jun-22			325,296.09	$ 9,173,049.08	63,910.23	$ 3,115,800.38	$ 12,288,849.46
Jul-22			281,795.31	$ 7,914,911.18	33,917.25	$ 1,645,347.40	$ 9,560,258.58
Aug-22			294,801.09	$ 8,576,613.16	17,553.49	$ 841,351.23	$ 9,417,964.39
Sep-22			330,882.88	$ 9,722,738.22	58,496.79	$ 2,698,650.21	$ 12,421,388.43
Oct-22			-	$ -	-	$ -	
Nov-22			-	$ -	-	$ -	
Dec-22			-	$ -	-	$ -	
Total-22			3,329,957.66	$ 94,813,613.38	833,209.27	$ 38,703,578.32	$ 133,517,191.70

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Lake Benton I
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Northern Alternative Energy (NAE)
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Velva
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Fenton (EnXco)
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - MinnDakota (Formerly Ivanhoe)
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Lincoln Heights Wind Holdings North*
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

*Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings North LLC.

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Lincoln Heights Wind Holdings South*
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - JJN Windfarm, LLC.
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Ulik
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Ewington
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
Jul-21								
Aug-21								
Sep-21								
Oct-21								
Nov-21								
Dec-21								
Total-21								
Jan-22								
Feb-22								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Moraine II Wind LLC
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
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Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Prairie Rose
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
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Dec-22								
Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Zephyr Wind LLC
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
Mar-21								
Apr-21								
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Jul-21								
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Nov-22								
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Total-22								

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Big Blue Wind Farm
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
Feb-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Valley View Wind
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Ridgewind Power Partners LLC
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Grant County Wind LLC
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Adams Wind Generations
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Odell
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Woodstock Hills
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Cisco
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Crowned Ridge
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Glen Ullin
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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Total-22								

PROTECTED DATA ENDS]

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Dakota Range III
2022 AAA Period

[PROTECTED DATA BEGINS

	Date Paid		Wind Production Delivered		Lost Production			
Production Month	Delivered MWh	Lost MWh	MWh Delivered	Amount Xcel Energy Paid	Lost MWh	Amount Xcel Energy Paid	Reason Codes	Total Xcel Energy Paid
Jan-21								
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Total-22								

PROTECTED DATA ENDS]

Wind Curtailment Summary Report - Company Owned Facilities
2022 AAA Reporting Period

	MWh Curtailed												
Project	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**	**2022 Total**
Blazing Star 1	664	393	315	3,488	1,709	48	68	101	0	9	2	12	6,809
Blazing Star 2	620	360	380	1,679	461	22	49	67	0	6	0	17	3,661
Border	0	0	2,315	135	98	1,027	234	26	5,834	67	62	38	9,836
Lake Benton II (Buffalo Ridge / Chanarambie)	115	17	256	1,442	103	371	62	248	38	122	663	373	3,810
Community Wind North	0	11	2	44	9	0	1	3	0	0	0	0	69
Courtenay	299	13	31	0	1,809	2,175	14	24	453	6	11	34	4,868
Crowned Ridge II	39,258	1,604	3	16,812	12,479	2,739	747	299	3,140	107	168	115	77,472
Dakota Range 1&2	30,178	8,125	3,020	2,077	12,645	2,159	606	1,758	2,415	720	334	374	64,410
Foxtail	4,898	25,651	15,114	5,903	10,740	4,917	3,302	506	6,217	11,610	18,386	9,813	117,057
Freeborn	5,394	23,493	12,733	35,399	586	2,307	120	441	8	0	46	3,134	83,661
Grand Meadow	101	1,551	396	3,081	5,301	979	9	0	1,096	649	206	481	13,849
Jeffers	191	339	59	237	845	278	1	24	2	205	0	0	2,183
Mower County	0	1,177	292	4	773	15	654	326	0	0	0	0	3,240
Noble	9,996	34,223	28,533	44,036	21,489	7,944	4,146	795	4,190	25,595	36,032	6,706	223,684
Pleasant Valley	1	89	4	72	1,153.0	19.9	0.0	5.1	0.0	0.0	40.1	1,033.1	2,417

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 NOS. E999/CI-19-704
E002/M-19-809

Dated this 1st day of March 2023

/s/

_____

Joshua DePauw
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Alison C	Archer	aarcher@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan, MN 55121	Electronic Service	No	OFF_SL_19-704_Official
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-704_Official
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_19-704_Official
Bruce	Gerhardson	bgerhardson@otpco.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_19-704_Official
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 350 Saint Paul, Minnesota 55102	Electronic Service	Yes	OFF_SL_19-704_Official
Kim	Havey	kim.havey@minneapolismn.gov	City of Minneapolis	350 South 5th Street, Suite 315M Minneapolis, MN 55415	Electronic Service	No	OFF_SL_19-704_Official
Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_19-704_Official
Kristin	Henry	kristin.henry@sierraclub.org	Sierra Club	2101 Webster St Ste 1300 Oakland, CA 94612	Electronic Service	No	OFF_SL_19-704_Official
Holly	Lahd	holly.lahd@target.com	Target Corporation	33 South 6th St CC-28662 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-704_Official
Leann	Oehlerking Boes	lboes@mnpower.com	Minnesota Power	30 W Superior St Duluth, MN 55802	Electronic Service	No	OFF_SL_19-704_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_19-704_Official
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	Electronic Service	Yes	OFF_SL_19-704_Official
Christine	Schwartz	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_19-704_Official
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-704_Official
Shane	Stennes	stennes@umn.edu	University of Minnesota	319 15th Avenue SE Minneapolis, MN 55455	Electronic Service	No	OFF_SL_19-704_Official
Stuart	Tommerdahl	stommerdahl@otpco.com	Otter Tail Power Company	215 S Cascade St PO Box 496 Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_19-704_Official
Brian	Tulloh	btulloh@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan, MN 55121-2498	Electronic Service	No	OFF_SL_19-704_Official
Laurie	Williams	laurie.williams@sierraclub.org	Sierra Club	Environmental Law Program 1536 Wynkoop St Ste 200 Denver, CO 80202	Electronic Service	No	OFF_SL_19-704_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Alison C	Archer	aarcher@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan, MN 55121	Electronic Service	No	OFF_SL_19-809_Official List
Mara	Ascheman	mara.k.ascheman@xcelenergy.com	Xcel Energy	414 Nicollet Mall Fl 5 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List
Gail	Baranko	gail.baranko@xcelenergy.com	Xcel Energy	414 Nicollet Mall7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List
James J.	Bertrand	james.bertrand@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-809_Official List
James	Canaday	james.canaday@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-809_Official List
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St, Louis, MO 63119-2044	Electronic Service	No	OFF_SL_19-809_Official List
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-809_Official List
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-809_Official List
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174 Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_19-809_Official List
James	Denniston	james.r.denniston@xcelenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, 401-8 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Rebecca	Eilers	rebecca.d.eilers@xcelenergy.com	Xcel Energy	414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List
Catherine	Fair	catherine@energycents.org	Energy CENTS Coalition	823 E 7th St St Paul, MN 55106	Electronic Service	No	OFF_SL_19-809_Official List
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	2720 E. 22nd St Institute for Local Self-Reliance Minneapolis, MN 55406	Electronic Service	No	OFF_SL_19-809_Official List
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_19-809_Official List
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-809_Official List
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_19-809_Official List
Bruce	Gerhardson	bgerhardson@otpco.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_19-809_Official List
James	Gignac	jgignac@ucsusa.org	Union of Concerned Scientists	1 N LaSalle St Ste 1904 Chicago, IL 60602	Electronic Service	No	OFF_SL_19-809_Official List
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 350 Saint Paul, Minnesota 55102	Electronic Service	No	OFF_SL_19-809_Official List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Janet	Gonzalez	Janet.gonzalez@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-809_Official List
Kim	Havey	kim.havey@minneapolismn.gov	City of Minneapolis	350 South 5th Street, Suite 315M Minneapolis, MN 55415	Electronic Service	No	OFF_SL_19-809_Official List
Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_19-809_Official List
Michael	Hoppe	lu23@ibew23.org	Local Union 23, I.B.E.W.	445 Etna Street Ste. 61 St. Paul, MN 55106	Electronic Service	No	OFF_SL_19-809_Official List
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave. Marathon, FL 33050	Electronic Service	No	OFF_SL_19-809_Official List
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-809_Official List
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-809_Official List
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	OFF_SL_19-809_Official List
Ryan	Long	ryan.j.long@xcelenergy.com	Xcel Energy	414 Nicollet Mall 401 8th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List
Kavita	Maini	kmaini@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Paper Service	No	OFF_SL_19-809_Official List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Mary	Martinka	mary.a.martinka@xcelenergy.com	Xcel Energy Inc	414 Nicollet Mall 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-809_Official List
Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	OFF_SL_19-809_Official List
Stacy	Miller	stacy.miller@minneapolismn.gov	City of Minneapolis	350 S. 5th Street Room M 301 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_19-809_Official List
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_19-809_Official List
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-809_Official List
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-809_Official List
Leann	Oehlerking Boes	lboes@mnpower.com	Minnesota Power	30 W Superior St Duluth, MN 55802	Electronic Service	No	OFF_SL_19-809_Official List
Carol A.	Overland	overland@legalectric.org	Legalectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	OFF_SL_19-809_Official List
Audrey	Partridge	apartridge@mncee.org	Center for Energy and Environment	212 3rd Ave. N. Suite 560 Minneapolis, Minnesota 55401	Electronic Service	No	OFF_SL_19-809_Official List
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_19-809_Official List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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