



March 3, 2025

—Via Electronic Filing—

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

RE: 2024 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 2024 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 the January 11, 2021, December 1, 2021, November 17, 2022, and November 8, 2023 Orders 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.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list. Please contact me at rebecca.d.eilers@xcelenergy.com or 612-330-5570 or Stephanie Mayers at 612-342-9045 or stephanie.m.mayers@xcelenergy.com if you have any questions regarding this filing.

SINCERELY,

/s/

REBECCA EILERS
MANAGER, REGULATORY AFFAIRS

Enclosures cc: Service List

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Hwikwon Ham	Commissioner
Audrey C. Partridge	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

DOCKET NO. E002/M-19-809

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

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);
- Docket Nos. E002/AA-19-293 and E002/M-19-809, ORDER APPROVING PLAN AND REQUIRING FILING, July 15, 2020 (July 15 Order);
- 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); and
- Docket Nos. E999/CI-19-704 and E002/M-19-809, ORDER, NOVEMBER 8, 2023 (November 8 Order).

We note that no action was taken by the Commission on our annual report for 2023.

In addition, 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 2024.

ANNUAL REPORT

A. Analysis of Self-Commitment and Self-Scheduling Decisions for Calendar Year 2024

In compliance with the above-noted Orders, we provide an analysis of self-commitment and self-scheduling decisions made during the calendar year 2024 reporting period.

The Company analyzed the economic impact of its self-commit actions for the period January – December 2024 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 took 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 operation 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 operation 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. Since then, the units have been offered economically, rather than utilizing the Emergency commit status, during the spring and the fall. However, the Commission's November 8 Order requires the Company to develop a plan to operate the King plant only during the months of June, July, August, December, January, and February, other than for emergency or reliability purposes, unless the Company must offer the unit to fulfill capacity obligations. The November 27, 2023 Compliance Letter described the Company's plan for seasonal operation to add a social cost of carbon (SCC) value to energy offers for the King plant during non-peak seasons as an economic solution to manage seasonal operation in compliance with the Order.

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 \$361,620,295, 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
2024 DART Margin for Non-Discretionary Self-Commit of Baseload Units

			2024 DART	Ma	rgin on Non-I	Disc	retionary Self	f-Co	mmit of Base	loa	d Units				
Ne	t MISO Pmt -	Pro	oduction Cost	s - (c	cost)/benefit										
	King Sherco 1 Sherco 3 Prairie Island 1 Prairie Island 2 Monticello Total														
\$	7,697,138	\$	28,921,972	\$	16,553,712	\$	65,864,035	\$	90,625,720	\$	151,957,718	\$	361,620,295		
Net	MISO Pmt -	Tot	al Production	Cos	sts including I	Rem	aining Unit F	uel	Costs - (cost)	/be	nefit				
	King		Sherco 1		Sherco 3	Pra	airie Island 1	Pra	irie Island 2		Monticello		Total		
\$	7,697,138	\$	28,921,972	\$	16,553,712	\$	40,588,478	\$	59,728,874	\$	111,107,925	\$	264,598,099		

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, 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 economic dispatch by MISO with a dispatch status of "Economic." 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 2024, 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.

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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.

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 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 from 260 MW to 215 MW. This increased "turndown capability" produced an estimated \$60,532 in customer benefits in 2024. 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, decrease carbon emissions, and reduce production costs.

2. Changes to 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.

On December 31, 2023, Unit 2 at the Sherco facility ceased generation and entered into retirement status. The three remaining units at the Company's coal plants, Sherco Units 1 and 3 and King Unit 1, have phased retirements plans with the last unit retiring in 2030. Prior to the retirement announcements, the Company performed testing, tuning, and revised operating procedures to lower the minimum operating load and increase ramp rate. Leading up to retirement operations, the Company will continue to utilize this knowledge and operating practices to maintain safe and compliant operations.

With the transition to a renewable energy-based profile, the coal units created a Seasonal Dispatch Best Practices document to address maintenance, layup, and equipment management during extended shutdowns. Capital investment has transitioned to the gas turbine fleet for quick response to the renewable variability. Within the gas turbine fleet, the Company is partnering with Original Equipment Manufacturers to perform control tuning, controls upgrades, and equipment upgrades to improve equipment flexibility and reliability. Additionally, we are working with permitting agencies to optimize regulatory requirements that maintain emissions goals while reducing operational constraints.

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 (Economic scenario) and a Worst case scenario can be represented by a year-round self-commitment or must-run scenario (Must Run scenario).

The Department stated in its May 1, 2024 Comments that the best-case and worst-case analysis performed by the utilities in this annual report is proving to be of little value. As discussed in our May 31, 2024 Reply Comments in this docket, we agree and noted that as the Company retires its coal units, we expect the best-case and worst-case scenario analysis to continue to yield results with decreasing value. Therefore, the Company continues to suggest that the parameters of this reporting requirement

could be updated or eliminated altogether. Notwithstanding this request, we provide the best- and worst-case scenario analysis below.

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 scenario, 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 economically.

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 2024 our analysis comparing Economic and Must Run scenarios across all facilities demonstrates improved financial performance under the Economic model on an annual basis. Sherco 1 and Sherco 3 showed moderate financial variations between scenarios (an approximately \$300,000 differential), while King exhibited more substantial differences primarily due to the incorporation of social cost of carbon (SCC) during seasonal operation.

The operational patterns varied significantly between facilities. King's Must Run scenario demonstrated continuous operation year-round, excluding maintenance periods, while its Economic scenario reflected market-based commitments influenced by environmental costs, market dynamics, and operational parameters. The impact of SCC-related opportunity costs during seasonal operations was particularly notable for King's performance in the Must Run case where it drove the negative benefits highlighted in Figure 2 below. Specifically related to the SCC, it was included in King's offer cost from March 1, 2024, through April 1, 2024, and from September 1, 2024, through October 1, 2024.

Sherco 1 and Sherco 3 exhibited distinct monthly patterns from King. Their Economic scenarios were heavily influenced by environmental compliance requirements, specifically the mitigation of water levels in scrubber and bottom ash ponds. These facilities implemented a negative opportunity cost adder to maintain elevated dispatch for pond level management, which enhanced net benefits across all scenarios due to reduced offer cost and increased online time. The pond mitigation

adder was in effect June 7, 2024 through September 30, 2024 for Sherco 1 and June 14, 2024 through July 26, 2024 for Sherco 3.

The market context also presents several important considerations. Commitments for these resources are frequently constrained by non-discretionary must run periods, with benefits primarily driven by market price conditions, reliability-related commitments by the company during periods of market stress, and opportunity costs managing operational and environmental constraints. When accounting for current market rules and actual operating parameters, the scenarios generally align. However, Market Participants face inherent limitations, including incomplete access to market information, inability to replicate actual market solutions, and limited capacity to fully model scenario impacts on market prices.

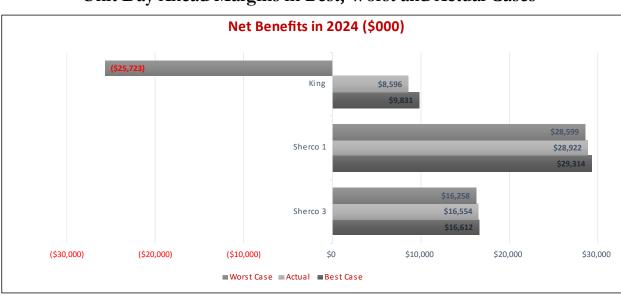


Figure 2
Unit Day Ahead Margins in Best, Worst and Actual Cases²

Figure 2 reveals that annual day-ahead margins across Best, Worst, and Actual cases showed minimal variations for all units except King. While monthly results in Attachment D demonstrated greater variance between Worst case versus Best, the Best and Actual case results maintained consistency throughout the year. These findings underscore the realistic nature of our economic modeling approach while acknowledging the inherent complexities of market operations and environmental compliance requirements.

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² The Best case scenario is represented by a year-round economic commitment scenario and the Worst case scenario is represented by a year-round self-commitment or must-run scenario.

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

1. Impacts of Southern Minnesota Municipal Power Agency (SMMPA) Partnership on Dispatch of Sherco 3

Xcel Energy and SMMPA are operating under their joint operating agreement. Under the agreement, each partner is its own Market Participant managing their pro-rata offer of the plant to MISO. As such, 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. 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. However, both parties remain in continuous discussions regarding opportunities for discretionary Economic commitments of the plant.

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.

Given that all milestones in the December 1 Order on this issue have been met and reported in previous reports, the Company has satisfied this requirement and therefore does not plan to report on it going forward. If there is a change to the feasibility and use of economic commitment at Sherco Unit 1, the Company will include it in the subsequent report.

3. Annual Carbon Dioxide Emissions and Avoided Emissions

Table 1 below shows the total carbon dioxide emissions by unit in 2024 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 2024 CO² Emissions by Unit

Unit	Actual Tons	Avoided Tons
King	654,948	2,205,256
Sherco 1	2,841,521	97,336
Sherco 3	2,319,249	141,625

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 joint operating agreement with SMMPA, Sherco 3 is not currently being offered on an economic basis. We will look for opportunities to offer Sherco 1 on an economic basis, subject to operational and customer commitments. 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 1

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 1, under which we seasonally dispatched those units beginning in fall 2020. The Seasonal Operation Period occurs from March-May and again from September-November.

In 2024, King was offered under the seasonal operating strategy from March 1 through April 1 and again September 1 through October 1. During the remainder of the seasonal operation period in both spring and fall, King was required to fulfill capacity obligations and therefore was not available for seasonal operation. However, in both actual operations and the economic case, King remained offline for the entire seasonal operation period.

Sherco 1 had limited opportunity in 2024 to operate under the seasonal operating plan where it was only offered under the seasonal strategy from April 25 through May 2. During all other times during the seasonal operation period, Sherco 1 was either in outage, post-outage testing, must run to serve steam obligations, or must run for water inventory control due to excess inventory in scrubber and bottom ash ponds.

The seasonal analysis was performed using PLEXOS modeling software in which operational parameters are utilized, and actual constraints are included. The model optimizes against the historical day-ahead locational marginal pricing (DA LMP) 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 operation compared to modeled production costs from must commit and economic commitment. This figure also shows the modeled CO2 emissions savings due to the seasonal operation plan relative to must run and economic commitment for King and Sherco 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 actual commitment during seasonal dispatch. During seasonal operation, MISO is allowed to access the seasonal operation units if MISO declares an emergency. No emergencies occurred during the seasonal operation timeframe, therefore resources remined offline in the base case.

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 operation timeframe. For the economic case, the model is free to commit and decommit the seasonal operation 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 operation was successful from both an economic and environmental point of view for both King and Sherco 1.

The base case (representing seasonal operation) compared favorably to the must run scenario, with \$41 million higher margin resulting from seasonal operation. The model also showed seasonal operation saved 635,947 metric tons of carbon dioxide (CO2) emissions over a must run scenario. The PLEXOS model did not economically commit either resource when offered under the seasonal operating strategy during the seasonal operation period.

Figure 3
Comparison of Econ and Must Run to Seasonal Operations

						MR Less BA	SE							E	CON less BA	SE			
		Generation (GWh)	Fuel Cost (\$000)	O&M Cost (\$000)	Start Costs (\$000)	Total Costs (\$000)	Revenue (\$000)	Profit+/Loss- (\$000)	CO2 Metric Tons	run hours	Generation (MWh)	Fuel Cost (\$000)	O&M Cost (\$000)	Start Costs (\$000)	Total Costs (\$000)	Revenue (\$000)	Profit+/Loss- (\$000)	CO2 Metric Tons	run hours
	Mar-24	257	4,530	21,241	-	25,776	4,919	(20,858)	288,043	744	-	-	-	-	-	-	-		-
	Apr-24	8	146	686	-	832	219	(614)	9,292	24	-	-	-	-	-	-	-	-	-
	May-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
King	Sep-24	248	4,575	20,580	-	25,160	6,735	(18,425)	278,752	720	-	-	-	-	-	-	-	-	-
	Oct-24	8	157	686	-	843	247	(596)	9,292	24	-	-	-	-	-	-	-	-	-
	Nov-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	522	9,408	43,193	-	52,612	12,119	(40,493)	585,379	1,512	-	-	-	-	-	-	-	-	-
	Mar-24	-	-		-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Apr-24	24	641	19	-	670	468	(202)	25,693	92	-	-	-	-	-	-	-	-	-
	May-24	23	585	18	-	609	621	12	24,875	56	-	-	-	-	-	-	-	-	-
Sherburne 1	Sep-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nov-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	47	1,226	37	-	1,279	1,089	(190)	50,568	148	-		-	-	-	-	-	-	-

Figure 4 shows the actual operation of the coal units by quarter for 2024, 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 5,589 hours out of the 8,784 hours during 2024, or 64 percent of hours during 2024. King was only self-committed by the Company on four occasions in 2024. There were no economic or reliability starts by MISO for either resource. The handful of economic hours in the table below are related to periods after must run commitments allowing MISO to economically decommit the resources. As discussed above and documented in Attachment A, Sherco 1 had several non-discretionary self-commitments throughout the year limiting it ability to participate in seasonal operation.

Figure 4
Operating Statistics by Quarter

		RUN F	IOURS	OFFLINE	HOURS	TOTAL	S	TARTS BY TYP	Έ	TOTAL
Unit	Date	MISO Economic	Company Must Run	Reserve Shutdown	Outage	HOURS	MISO Economic	MISO Reliability	Company Must Run	STARTS
	Qtr1	84	618	1,482	-	2,184	0	0	1	1
King	Qtr2	-	-	1,080	1,104	2,184	0	0	0	0
Killg	Qtr3	96	579	918	615	2,208	0	0	3	3
	Qtr4	-	-	2,109	99	2,208	0	0	0	0
King Total		180	1,197	5,589	1,818	8,784	0	0	4	4
	Qtr1	4	1,249	19	912	2,184	0	0	0	0
Sherco 1	Qtr2	6	1,411	212	555	2,184	0	0	4	4
Sileito I	Qtr3	-	2,024	-	184	2,208	0	0	3	3
	Qtr4	11	1,136	94	967	2,208	0	0	2	2
Sherco 1 Total		21	5,820	325	2,618	8,784	0	0	9	9

2. King Dispatch Plan

In compliance with the November 8 Order, the Company filed its plan for seasonal operation of the King plant on November 12, 2023. The plan was approved by the Commission's January 12, 2024 Notice of Approval of Compliance Filing. Consistent with that plan, the Company adds a social cost of carbon (SCC) value to energy offers for the plant during the "off" months of March, April, May, September, October, and November. The Company does not add the SCC to energy offers for the King Plant during the "on" months of June, July, August, December, January, and February.

3. Capital and O&M Costs

Sherco 1 did not idle in 2024 due to clearing the 2024/2025 (June 1/May 1) MISO Planning Resource Auction (PRA). Sherco 1 is scheduled to retire on December 31, 2026. With the nearing retirement date for Sherco 1, minimal capital and O&M investments were made during the year 2024.

The King Plant did not clear the 2024/2025 (June 1/May 1) MISO PRA. The Unit was idled during the fall. During the idle period, some of King Plant's labor resources supported other power plants.

4. Workforce Impacts

No King Plant employees were negatively impacted due to 2024 fall seasonal idle operation.

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 plants for several years. We continue to hold quarterly Just Transition communication meetings with employees at Sherco and King Plant. At the quarterly meetings, Senior Leadership and Plant Management stress the importance of keeping the workforce through the retirement of coal operation and then transferring their skills to other areas of the Company. Potential positions for employees after coal is retired include positions within the Company's Transmission, Distribution, or Gas business units, and positions at Nuclear Power Plants, Combined Cycle Plants, or Service Centers.

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 contracted wind facilities for each facility as Attachment F. We note that this information is also provided as Part C, Attachment 2 and 2a of our March 1, 2025 Annual Fuel Forecast True-up Report for 2024 in Docket No. E002/AA-23-153.

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 July 15, 2020 ORDER APPROVING PLAN AND REQUIRING FILING in Docket Nos. E002/AA-19-293 and E002/M-19-809; 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 November 8, 2023 ORDER ACCEPTING ANNUAL FILINGS AND REQUIRING ADDITIONAL FILING in Docket Nos. E999/CI-19-704 and E002/M-19-809. In addition, the Company suggests that the parameters of the best-case worst-case scenario reporting requirement could be updated or eliminated altogether (Order Point 10 of the December 1 Order).

Dated: March 3, 2025

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						EC	ON							ECON less MR			
												1	P/L with Estimated						P	/L with Estimated		
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	MWP	CO2 (000 lb)	run hours
g Jan-	1-24	359,579	8,527,451	16,124,712	7,597,261	889,598	744	294,363	7,161,416	14,365,038	7,203,623	-	7,203,623	728,253	605	(65,216)	(1,366,035)	(1,759,674)	(393,639)	(393,639)	(161,345)	(139
Feb	o-24	286,673	7,326,811	6,432,439	(894,372)	709,228	696	-	-	-	-	-	-	-	-	(286,673)	(7,326,811)	(6,432,439)	894,372	894,372	(709,228)	(696
Mar	r-24	256,680	25,776,314	4,918,637	(20,857,676)	635,026	744	-	-	-	-	-	-	-	-	(256,680)	(25,776,314)	(4,918,637)	20,857,676	20,857,676	(635,026)	(744)
Apr	r-24	315,671	7,239,734	7,358,402	118,668	780,971	720	-	-	-		-	-	-	-	(315,671)	(7,239,734)	(7,358,402)	(118,668)	(118,668)	(780,971)	(720)
May	/-24	77,344	1,604,779	1,865,993	261,214	191,348	168	-	-	-		-	-	-	-	(77,344)	(1,604,779)	(1,865,993)	(261,214)	(261,214)	(191,348)	(168)
Jun	1-24	84,928	2,118,826	2,151,838	33,012	210,111	192	-	-	-	-	-	-	-	-	(84,928)	(2,118,826)	(2,151,838)	(33,012)	(33,012)	(210,111)	(192)
Jul	1-24	181,043	4,705,056	6,325,027	1,619,971	447,901	450	174,602	4,729,913	6,224,987	1,495,075	-	1,495,075	431,964	432	(6,442)	24,856	(100,040)	(124,896)	(124,896)	(15,937)	(18)
Aug	g-24	188,509	4,566,561	5,401,375	834,814	466,372	423	95,011	2,316,465	3,221,153	904,688	-	904,688	235,058	209	(93,498)	(2,250,096)	(2,180,222)	69,874	69,874	(231,314)	(214)
Sep	o-24	248,400	25,160,242	6,734,838	(18,425,403)	614,542	720	-	-	-	-	-	-	-	-	(248,400)	(25,160,242)	(6,734,838)	18,425,403	18,425,403	(614,542)	(720)
Oct	t-24	332,783	7,996,623	8,693,901	697,279	823,304	744	-	-	-	-	-	-	-	-	(332,783)	(7,996,623)	(8,693,901)	(697,279)	(697,279)	(823,304)	(744)
Nov	<i>ı</i> -24	334,991	7,280,507	8,933,448	1,652,941	828,768	720	-	-	-		-	-	-	-	(334,991)	(7,280,507)	(8,933,448)	(1,652,941)	(1,652,941)	(828,768)	(720)
Dec	c-24	301,575	7,412,398	9,051,619	1,639,220	746,097	621	-	-	-	-	-	-	-	-	(301,575)	(7,412,398)	(9,051,619)	(1,639,220)	(1,639,220)	(746,097)	(621
Total		2,968,175	109,715,303	83,992,230	(25,723,072)	7,343,265	6,942	563,975	14,207,794	23,811,179	9,603,385		9,603,385	1,395,275	1,246	(2,404,200)	(95,507,509)	(60,181,051)	35,326,457	35,326,457	(5,947,990)	(5,696

					MR						ECO	ON							ECON less MR			
												1	/L with Estimated						F	L with Estimated		
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	MWP	CO2 (000 lb)	run hours
: 01 Jar	n-24	359,663	9,298,086	15,948,926	6,650,839	853,839	744	359,663	9,298,086	15,948,926	6,650,839	-	6,650,839	853,839	744	-	-	-	-	-	-	-
Feb	b-24	209,540	5,488,923	4,985,452	(503,470)	497,447	528	204,000	5,337,085	4,888,172	(448,913)	-	(448,913)	484,295	509	(5,540)	(151,838)	(97,280)	54,557	54,557	(13,152)	(19)
Mai	r-24	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apr	or-24	43,520	1,935,661	761,431	(1,174,230)	103,316	169	19,580	1,078,385	582,781	(787,348)	291,744	(495,604)	46,483	76	(23,940)	(857,277)	(178,650)	386,883	678,627	(56,834)	(93)
May	y-24	298,575	7,897,290	7,862,094	(35,196)	708,817	744	275,335	7,512,786	7,237,706	(275,080)	-	(275,080)	653,645	688	(23,240)	(384,504)	(624,388)	(239,884)	(239,884)	(55,172)	(56)
Jur	n-24	364,101	5,522,441	8,237,784	2,715,343	864,375	716	364,216	5,524,245	8,239,476	2,715,232	-	2,715,232	864,648	716	115	1,804	1,693	(112)	(112)	273	-
Ju	ul-24	447,864	5,628,116	14,562,595	8,934,479	1,063,229	744	447,864	5,628,116	14,562,595	8,934,479	-	8,934,479	1,063,229	744	-	-	-	-	-	-	-
Aug	ig-24	341,025	4,830,134	8,739,403	3,909,269	809,593	560	341,025	4,830,134	8,739,403	3,909,269	-	3,909,269	809,593	560	-	-	-	-	-	-	-
Sep	p-24	425,056	5,273,984	11,760,078	6,486,094	1,009,083	720	425,056	5,273,984	11,760,078	6,486,094	-	6,486,094	1,009,083	720	-	-	-	-	-	-	-
Oct	t-24	213,913	5,903,043	5,448,687	(454,357)	507,828	633	213,913	5,903,043	5,448,687	(454,357)	-	(454,357)	507,828	633	-	-	-	-	-	-	-
Nov	ıv-24	6,060	381,143	138,402	(242,741)	14,386	19	-	-	-		-	-	-	-	(6,060)	(381,143)	(138,402)	242,741	242,741	(14,386)	(19
Dec	c-24	263,431	6,919,390	9,232,292	2,312,902	625,385	565	229,676	6,055,501	8,347,302	2,291,801	-	2,291,801	545,251	490	(33,755)	(863,889)	(884,989)	(21,101)	(21,101)	(80,134)	(75
Total		2,972,746	59,078,211	87,677,143	28,598,932	7,057,300	6,142	2,880,326	56,441,365	85,755,125	29,022,016	291,744	29,313,760	6,837,895	5,880	(92,420)	(2,636,846)	(1,922,018)	423,085	714,829	(219,405)	(262

					MR						EC	ON							ECON less MR			
													P/L with Estimated						P	/L with Estimated		
		MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	Estimated MWP	MWP	CO2 (000 lb)	run hours	MWh	Gen Cost	Revenue	Profit (+) / Loss (-)	MWP	CO2 (000 lb)	run hours
Sherco3	Jan-24	321,653	7,952,681	14,595,288	6,642,606	703,134	744	321,653	7,952,681	14,595,288	6,642,606	-	6,642,606	703,134	744	-	-	-	-	-	-	-
_	Feb-24	227,644	5,690,550	5,194,435	(496,115)	497,629	696	227,644	5,690,550	5,194,435	(496,115)	-	(496,115)	497,629	696	-	-		-	-	-	-
_	Mar-24	225,984	5,637,497	4,646,950	(990,546)	494,000	744	225,984	5,637,497	4,646,950	(990,546)	-	(990,546)	494,000	744	-	-	-	-	-	-	-
_	Apr-24	229,125	5,761,573	4,999,971	(761,603)	500,868	720	229,125	5,761,573	4,999,971	(761,603)	-	(761,603)	500,868	720	-	-	0	-	-	-	-
_	May-24	133,247	3,587,963	3,140,914	(447,049)	291,277	408	72,653	2,052,656	1,804,663	(298,369)	50,375	(247,994)	158,820	218	(60,594)	(1,535,306)	(1,336,251)	148,681	199,056	(132,457)	(190)
_	Jun-24	297,340	4,897,578	6,798,800	1,901,222	649,986	720	297,340	4,897,578	6,798,800	1,901,222	-	1,901,222	649,986	720	-	-		-	-	-	-
_	Jul-24	279,350	4,176,851	9,011,158	4,834,307	610,659	586	279,350	4,176,851	9,011,158	4,834,307	-	4,834,307	610,659	586	-	-		-	-	-	-
_	Aug-24	232,435	5,876,409	6,867,246	990,838	508,102	744	232,435	5,876,409	6,867,246	990,838	-	990,838	508,102	744	-	-	-	-	-	-	-
_	Sep-24	105,908	3,083,584	3,434,960	351,376	231,515	369	89,285	2,460,932	2,931,586	470,654	-	470,654	195,176	313	(16,624)	(622,652)	(503,374)	119,278	119,278	(36,339)	(56)
_	Oct-24	78,120	1,944,967	2,141,272	196,305	170,769	264	29,401	933,539	1,028,923	(108,610)	203,994	95,384	64,269	96	(48,719)	(1,011,428)	(1,112,349)	(304,915)	(100,921)	(106,500)	(168)
_	Nov-24	260,804	6,672,521	7,099,686	427,165	570,116	653	261,006	6,538,120	7,101,867	563,747	-	563,747	570,558	653	202	(134,401)	2,182	136,583	136,583	442	-
_	Dec-24	321,020	7,768,954	11,378,926	3,609,971	701,750	720	321,020	7,768,954	11,378,926	3,609,971	-	3,609,971	701,750	720	-	-	0	-	-	-	-
1	Total	2,712,628	63,051,128	79,309,604	16,258,477	5,929,805	7,368	2,586,894	59,747,340	76,359,812	16,358,103	254,368	16,612,472	5,654,951	6,954	(125,734)	(3,303,787)	(2.949.792)	99,626	353,995	(274,855)	(414)

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Unit Equivalent Forced Outage													
Rates (%) - 2024	January	February	March	April	May	June	July	August	September	October	November	December	2024 Total
	[PROTEO	CTED DAT	'A BEGIN	IS .									
King													
Monticello													
Prairie Island 1													
Prairie Island 2													
Sherco 1													
Sherco 2													
Sherco 3													

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Curtailment Summary Report - Company Owned Facilities 2024 Reporting Period

Project	Jani	ıary	Febr	ruary	Mai	rch	Ap	ril	M	ay
	MWh	MWh								
	Produced	Curtailed								
Blazing Star 1	70,120	359	70,936	138	85,955	282	93,760	2,873	78,605	219
Blazing Star 2	69,620	304	71,734	103	88,906	243	94,924	1,413	79,285	215
Border	56,900	55	43,531	44	56,542	172	61,813	88	50,330	62
Community Wind North	8,427	0	9,712	0	11,697	0	12,672	53	10,641	0
Courtenay	65,159	144	60,135	210	69,903	217	78,966	273	59,907	329
Crowned Ridge II	62,422	757	70,312	455	84,319	337	91,155	6,834	71,861	1,287
Dakota Range 1&2	79,817	447	82,226	1,290	103,135	1,642	124,036	2,098	91,846	2,709
Foxtail	45,356	2,704	43,955	7,819	42,964	23,420	55,799	14,478	56,324	1,177
Freeborn	61,794	424	76,183	1,384	83,409	6,081	95,026	1,705	67,530	1,803
Grand Meadow	26,146	2,511	36,202	20	40,593	18	44,925	348	30,401	41
Jeffers	15,974	146	17,724	97	20,362	45	20,200	1,092	16,829	113
Lake Benton II	32,671	51	34,102	4,462	48,142	137	44,430	3,774	38,179	2,230
Mower County	26,031	14	32,878	10	38,141	17	39,072	278	27,416	112
Noble	45,414	10,791	49,725	23,041	92,448	2,356	91,617	9,304	57,136	14,688
Northern Wind	24,734	1,592	31,020	3,218	42,204	551	42,189	4,379	31,995	3,598
Pleasant Valley	57,672	711	73,515	348	83,106	159	90,572	1,065	43,665	1,873
Rock Aetna	57,672	207	6,951	216	8,346	14	8,714	358	7,621	161
Sherco Solar I	0	0	0	0	0	0	0	0	0	0

Curtailment Summary Report - Company Owned Facilities 2024 Reporting Period

Project	Ju	ne	Ju	ıly	Aug	gust	Septe	mber	Oct	ober
	MWh	MWh								
	Produced	Curtailed								
Blazing Star 1	61,169	2,380	24,310	5,383	40,894	1,882	71,903	3,765	77,959	187
Blazing Star 2	61,315	764	26,304	4,907	41,089	1,601	72,430	3,329	79,363	221
Border	52,680	501	26,735	3,009	43,547	535	53,244	3,680	53,605	494
Community Wind North	8,510	0	5,648	5	7,414	20	10,200	13	10,860	3
Courtenay	62,017	254	34,080	131	50,458	210	65,647	217	63,290	280
Crowned Ridge II	63,192	527	46,271	182	58,862	5,063	53,310	28,694	85,987	780
Dakota Range 1&2	74,297	2,133	49,077	287	67,553	1,174	82,448	16,961	108,754	439
Foxtail	51,058	839	32,097	80	52,051	129	57,536	2,981	47,455	15,215
Freeborn	61,507	794	36,167	300	46,382	499	52,013	7,196	61,833	35,020
Grand Meadow	28,378	38	14,414	12	18,822	12	24,189	17	43,785	18
Jeffers	11,053	13	10,453	19	12,210	4	17,149	602	17,856	1,560
Lake Benton II	31,884	2,388	22,322	1,022	29,227	289	37,791	2,924	43,539	11
Mower County	23,799	85	12,867	26	17,620	78	22,170	73	39,426	29
Noble	54,471	6,579	36,064	137	39,223	1,098	67,562	690	83,822	106
Northern Wind	26,291	2,982	16,717	1,975	22,122	823	33,776	1,294	37,508	6
Pleasant Valley	58,361	275	35,645	126	45,261	135	59,228	143	86,658	143
Rock Aetna	6,279	137	3,986	101	5,038	45	7,211	93	8,584	0
Sherco Solar I	0	0	0	0	0	0	0	0	0	0

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Curtailment Summary Report - Company Owned Facilities 2024 Reporting Period

Project	Nove	mber	Dece	mber	2024	Total
	MWh	MWh	MWh	MWh	MWh	MWh
	Produced	Curtailed	Produced	Curtailed	Produced	Curtailed
Blazing Star 1	66,245	1,040	73,813	164	815,670	18,674
Blazing Star 2	66,557	812	74,108	193	825,635	14,105
Border	54,660	67	59,547	67	613,134	8,773
Community Wind North	9,755	139	9,147	0	114,683	234
Courtenay	62,710	251	65,111	203	737,383	2,720
Crowned Ridge II	73,371	658	73,453	488	834,515	46,064
Dakota Range 1&2	90,751	397	84,062	525	1,038,002	30,102
Foxtail	49,859	148	50,238	736	584,693	69,725
Freeborn	54,469	32,196	53,635	18,888	749,948	106,290
Grand Meadow	37,645	17	32,771	208	378,271	3,261
Jeffers	17,087	828	17,570	205	194,467	4,725
Lake Benton II	36,927	1,045	38,281	25	437,496	18,356
Mower County	34,216	48	29,060	20	342,696	790
Noble	71,172	583	63,805	338	752,460	69,710
Northern Wind	30,459	46	30,595	36	369,610	20,500
Pleasant Valley	73,352	74	62,179	1,288	769,214	6,340
Rock Aetna	6,877	6	6,927	0	82,123	1,337
Sherco Solar I	15,287	0	7,536	0	22,823	0

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - 2024 Total

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	Date	Paid	Wind Prod	uct	ion Delivered	Lost F	ro	duction	
					Amount			Amount	Total
Production	Delivered	Lost	MWh		Xcel Energy			Xcel Energy	Xcel Energy
Month	MWh	MWh	Delivered		Paid	Lost MWh		Paid	Paid
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			456,771.15	\$	13,490,974.69	89,873.45	\$	4,187,674.83	\$ 17,678,649.52
Nov-22			520,187.11	\$	15,784,594.96	99,216.95	\$	4,491,208.90	\$ 20,275,803.86
Dec-22			429,825.87	\$	13,875,252.48	47,946.35	\$	2,182,658.21	\$ 16,057,910.69
Total-22			5,135,714.56	\$	156,014,557.80	1,070,246.02	\$	49,565,120.26	\$ 205,480,318.89
Jan-23			393,539.81	\$	11,685,951.91	31,307.96	\$	1,193,237.63	\$ 12,879,189.54
Feb-23			457,372.21	\$	12,714,269.78	105,822.35	\$	4,515,463.23	\$ 17,229,733.01
Mar-23			401,518.34	\$	11,177,949.13	126,969.66	\$	5,145,929.23	\$ 16,323,878.36
Apr-23			401,450.67	\$	11,239,143.01	233,339.64	\$	8,885,901.35	\$ 20,125,044.36
May-23			356,283.30	\$	10,473,135.98	107,749.67	\$	4,332,169.82	\$ 14,805,305.80
Jun-23			229,902.24	\$	6,547,246.80	25,986.97	\$	1,131,588.32	\$ 7,678,835.12
Jul-23			227,960.97	\$	5,997,173.58	14,721.14	\$	620,226.20	\$ 6,617,399.78
Aug-23			301,707.75	\$	8,590,910.10	40,692.28	\$	1,443,504.63	\$ 10,034,414.73
Sep-23			292,808.25	\$	8,774,907.11	50,288.45	\$	1,817,959.89	\$ 10,592,867.00
Oct-23			349,930.24	\$	10,155,505.00	157,767.04	\$	6,422,597.84	\$ 16,578,102.84
Nov-23			406,121.36	\$	11,715,734.21	141,409.42	\$	5,708,258.93	\$ 17,423,993.14
Dec-23			423,265.51	\$	12,255,617.97	72,952.92	\$	2,819,767.57	\$ 15,075,385.54
Total-23			4,241,860.65	\$	121,327,544.58	1,109,007.47	\$	44,036,604.64	\$ 165,364,149.22
Jan-24			383,644.55	\$	11,108,778.02	47,795.53	\$	2,254,689.27	\$ 13,363,467.29
Feb-24			384,473.64	\$	10,793,881.34	113,601.92	\$	4,876,651.16	\$ 15,670,532.50
Mar-24			437,376.69	\$	12,586,350.20	155,102.91	\$	6,430,104.06	\$ 19,016,454.26
Apr-24			415,747.68	\$	11,444,758.63	254,803.14	\$	10,754,594.43	\$ 22,199,353.06
May-24			369,513.96	\$	10,183,267.83	114,534.36	\$	4,740,964.90	\$ 14,924,232.73
Jun-24			338,987.62	\$	9,448,978.75	77,713.51	\$	3,249,051.12	\$ 12,698,029.87
Jul-24			230,601.03	\$	6,585,254.14	26,487.60	\$	997,192.36	\$ 7,582,446.50
Aug-24			284,339.87	\$	7,831,133.08	49,436.60	\$	1,932,488.10	\$ 9,763,621.18
Sep-24			308,802.80	\$	9,033,604.76	175,558.60	\$	7,252,089.06	\$ 16,285,693.82
Oct-24			409,599.24	\$	11,455,676.63	154,204.55	\$	6,210,591.33	\$ 17,666,267.96
Nov-24			369,971.25	\$	10,251,884.60	123,166.40	\$	5,218,216.92	\$ 15,470,101.52
Dec-24			402,308.10	\$	11,405,907.28	67,560.81	\$	2,693,304.33	\$ 14,099,211.61
Total-24			4,335,366.42	\$	122,129,475.26	1,359,965.93	\$	56,609,937.04	\$ 178,739,412.30

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

Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 5 of 29

	Date	Paid	Wind Prod	uct	ion Delivered	Lost F	ro	duction	
					Amount			Amount	Total
Production	Delivered	Lost	MWh		Xcel Energy			Xcel Energy	Xcel Energy
Month	MWh	MWh	Delivered		Paid	Lost MWh		Paid	Paid
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			422,570.65	\$	11,865,164.82	89,873.45	\$	4,187,674.83	\$ 16,052,839.65
Nov-22			403,573.57	\$	10,362,753.12	99,216.95	\$	4,491,208.90	\$ 14,853,962.02
Dec-22			398,971.69	\$	12,150,842.70	47,946.35	\$	2,182,658.21	\$ 14,333,500.91
Total-22			4,555,073.57	\$	129,192,374.02	1,070,246.02	\$	49,565,120.26	\$ 178,757,494.28
Jan-23			300,505.52	\$	7,621,749.84	31,307.96	\$	1,193,237.63	\$ 8,814,987.47
Feb-23			422,223.84	\$	10,826,162.18	105,822.35	\$	4,515,463.23	\$ 15,341,625.41
Mar-23			369,946.99	\$	9,401,623.12	126,969.66	\$	5,145,929.23	\$ 14,547,552.35
Apr-23			363,859.87	\$	9,149,165.33	233,339.64	\$	8,885,901.35	\$ 18,035,066.68
May-23			307,407.89	\$	8,291,640.27	107,749.67	\$	4,332,169.82	\$ 12,623,810.09
Jun-23			205,105.68	\$	5,435,189.30	25,986.97	\$	1,131,588.32	\$ 6,566,777.62
Jul-23			178,833.06	\$	4,648,049.48	14,721.14	\$	620,226.20	\$ 5,268,275.68
Aug-23			268,723.55	\$	7,159,598.34	40,692.28	\$	1,443,504.63	\$ 8,603,102.97
Sep-23			257,892.62	\$	7,291,080.65	50,288.45	\$	1,817,959.89	\$ 9,109,040.54
Oct-23			321,211.47	\$	8,591,181.45	157,767.04	\$	6,422,597.84	\$ 15,013,779.29
Nov-23			374,994.07	\$	10,034,452.42	141,409.42	\$	5,708,258.93	\$ 15,742,711.35
Dec-23			351,691.40	\$	10,153,037.71	72,952.92	\$	2,819,767.57	\$ 12,972,805.28
Total-23			3,722,395.95	\$	98,602,930.09	1,109,007.47	\$	44,036,604.64	\$ 142,639,534.73
Jan-24			358,885.38	\$	9,870,717.08	47,795.53	\$	2,254,689.27	\$ 12,125,406.35
Feb-24			295,642.22	\$	8,070,136.35	113,601.92	\$	4,876,651.16	\$ 12,946,787.51
Mar-24			326,546.19	\$	9,105,916.09	155,102.91	\$	6,430,104.06	\$ 15,536,020.15
Apr-24			383,385.78	\$	9,727,944.33	254,803.14	\$	10,754,594.43	\$ 20,482,538.76
May-24			344,243.04	\$	8,848,454.37	114,534.36	\$	4,740,964.90	\$ 13,589,419.27
Jun-24			299,562.25	\$	7,799,661.84	77,713.51	\$	3,249,051.12	\$ 11,048,712.96
Jul-24			203,240.57	\$	5,439,568.57	26,487.60	\$	997,192.36	\$ 6,436,760.93
Aug-24			247,872.70	\$	6,343,095.70	49,436.60	\$	1,932,488.10	\$ 8,275,583.80
Sep-24			260,518.10	\$	6,987,923.71	175,558.60	\$	7,252,089.06	\$ 14,240,012.77
Oct-24			350,578.51	\$	9,006,617.41	154,204.55	\$	6,210,591.33	\$ 15,217,208.74
Nov-24			323,761.40	\$	8,217,332.95	123,166.40	\$	5,218,216.92	\$ 13,435,549.87
Dec-24			375,638.80	\$	10,047,540.84	67,560.81	\$	2,693,304.33	\$ 12,740,845.17
Total-24			3,769,874.94	\$	99,464,909.24	1,359,965.93	\$	56,609,937.04	\$ 156,074,846.28

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Lake Benton I Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 6 of 29

[PROTECTED DATA BEGINS Date Paid Wind Production Delivered Lost Production											
	Date	Paid	Wind Produ								
				Amount		Amount	_	Total			
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason				
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid			
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Northern States Power Company Electric Utility - State of Minnesota

Wind Curtailment Summary Report - Northern Alternative Energy (NAE)

Docket No. E999/CI-19-704 2024 Annual Report

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IPROTECTED DATA BEGINS

PROTECTE	OTECTED DATA BEGINS									
	Date	Paid	Wind Produ	ction Delivered		Lost Production	T			
		_		Amount		Amount		Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason			
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
Jan-22										
Feb-22										
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Velva Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 8 of 29

IPROTECTED DATA BEGINS

PROTECTE	DTECTED DATA BEGINS Date Paid Wind Production Delivered Lost Production								
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D	D. II		B.83.671-	Amount		Amount		Total	
Production	Delivered	Lost	MWh	Xcel Energy	L a a 4 NAVA/Ia	Xcel Energy	Reason	Detal	
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid	
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Fenton (EnXco) Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 9 of 29

[PROTECTED DATA BEGINS										
	Date	Paid	Wind Produ	ction Delivered		Lost Production				
				Amount		Amount		Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy		
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
Jan-22										
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Northern States Power Company
Electric Utility - State of Minnesota

Docket No. E999/CI-19-704 2024 Annual Report Attachment F

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Wind Curtailment Summary Report - MinnDakota (Formerly Ivanhoe)

[PROTECTED DATA BEGINS

	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
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Feb-22								
Mar-22								
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Northern States Power Company Electric Utility - State of Minnesota

Wind Curtailment Summary Report - Lincoln Heights Wind Holdings North*

Docket No. E999/CI-19-704 2024 Annual Report

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IPROTECTED DATA BEGINS

PROTECTE	OTECTED DATA BEGINS Date Paid Wind Production Delivered Lost Production									
	Date	Paid	Wind Produ			Lost Production				
		_		Amount		Amount	_	Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy		
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
Jan-22										
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*Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings North LLC.

Northern States Power Company Electric Utility - State of Minnesota

Wind Curtailment Summary Report - Lincoln Heights Wind Holdings South*

Docket No. E999/CI-19-704 2024 Annual Report

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IPROTECTED DATA BEGINS

IPROTECTE	D DATA BE							
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
Jan-22								
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Mar-22								
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*Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings South LLC.

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - JJN Windfarm, LLC. Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 13 of 29

IPROTECTED DATA BEGINS

[PROTECTED DATA BEGINS									
	Date	Paid	Wind Produ	ction Delivered		Lost Production			
				Amount		Amount		Total	
Production		Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy	
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid	
Jan-22									
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Ulik Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 14 of 29

IPROTECTED DATA BEGINS

[PROTECTE	DTECTED DATA BEGINS									
	Date	Paid	Wind Produ	ction Delivered		Lost Production				
				Amount		Amount		Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy		
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Ewington Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 15 of 29

IPROTECTED DATA BEGINS

	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
Jan-22								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Moraine II Wind LLC Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 16 of 29

IPROTECTED DATA BEGINS

PROTECTE	DTECTED DATA BEGINS Date Paid Wind Production Delivered Lost Production									
	Date	Paid	Wind Produ			Lost Production				
				Amount		Amount	_	Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy		
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Prairie Rose Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 17 of 29

IPROTECTED DATA BEGINS

[PROTECTE	PROTECTED DATA BEGINS										
	Date	Paid	Wind Produ	ction Delivered		Lost Production					
				Amount		Amount		Total			
Production		Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy			
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid			
Jan-22											
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Zephyr Wind LLC Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 18 of 29

PROTECTED DATA BEGINS

[PROTECTE								
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
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								
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Total-23								
Jan-24								
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Sep-24								
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Nov-24								
Dec-24								
Total-24								

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Big Blue Wind Farm Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 19 of 29

IPROTECTED DATA BEGINS

[PROTECTED DATA BEGINS									
	Date	Paid	Wind Produ	ction Delivered		Lost Production	l		
				Amount		Amount	_	Total	
Production		Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy	
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid	
100									
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 Jan-23									
Feb-23									
Mar-23									
Apr-23									
May-23									
Jun-23 Jul-23									
Aug-23									
Sep-23									
Oct-23									
Nov-23									
Dec-23									
Total-23									
Jan-24									
Feb-24									
Mar-24									
Apr-24									
May-24									
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Total-24									
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Valley View Wind Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 20 of 29

IPROTECTED DATA BEGINS

[PROTECTED DATA BEGINS										
	Date	Paid	Wind Produ	ction Delivered		Lost Production				
				Amount		Amount		Total		
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy		
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid		
Jan-22										
Feb-22										
Mar-22										
Apr-22										
May-22										
Jun-22										
Jul-22										
Aug-22										
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Total-22 Jan-23										
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Total-24										

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Ridgewind Power Partners LLC Docket No. E999/CI-19-704 2024 Annual Report Attachment F

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IPROTECTED DATA BEGINS

PROTECTE	ECTED DATA BEGINS Date Paid Wind Production Delivered Lost Production								
	Date	Paid	Wind Produ						
	.			Amount		Amount	_	Total	
Production	Delivered	Lost	MWh	Xcel Energy	1 4 843471-	Xcel Energy	Reason	Xcel Energy	
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid	
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									
Jan-23									
Feb-23									
Mar-23									
Apr-23									
May-23									
Jun-23									
Jul-23									
Aug-23									
Sep-23 Oct-23									
Nov-23									
Dec-23									
Total-23									
Jan-24									
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Nov-24									
Dec-24									
Total-24									

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Grant County Wind LLC Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 22 of 29

[PROTECTED DATA BEGINS

[PROTECTED DATA BEGINS									
	Date	Paid	Wind Produ	ction Delivered		Lost Production	l		
				Amount		Amount	_	Total	
Production		Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy	
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid	
100									
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 Jan-23									
Feb-23									
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Total-23									
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Adams Wind Generations Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 23 of 29

IPROTECTED DATA BEGINS

[FKOTECTE	D DATA BE	Paid	Wind Produ	ction Delivered		Lost Production		
	Date	Falu	vviila Produ	Amount		Amount	T T	Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
WOITH	1010011	1414411	Delivered	Faiu	LOST MINNI	Faiu	Codes	Faiu
Jan-22								
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Dec-24								
Total-24								

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Odell Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 24 of 29

[PROTECTE	D DATA BE	GINS						
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Woodstock Hills Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 25 of 29

IPROTECTED DATA BEGINS

[PROTECTE								
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Cisco Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 26 of 29

IPROTECTED DATA BEGINS

[PROTECTE	D DATA BE							
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
Jun-22								
Jul-22								
Aug-22								
Sep-22								
Oct-22								
Nov-22								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Crowned Ridge Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 27 of 29

IPROTECTED DATA BEGINS

	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
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								
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Mar-23								
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Total-23								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Glen Ullin Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 28 of 29

IPROTECTED DATA BEGINS

[PROTECTE								
	Date	Paid	Wind Produ	ction Delivered		Lost Production		
				Amount		Amount		Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
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								
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Apr-23								
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Dakota Range III Docket No. E999/CI-19-704 2024 Annual Report Attachment F Page 29 of 29

IPROTECTED DATA BEGINS

PROTECTE	D DATA BE	Paid	Wind Produ					
	Date	, alu	vviila Fiodu	Amount	Lost Production Amount			Total
Production	Delivered	Lost	MWh	Xcel Energy		Xcel Energy	Reason	Xcel Energy
Month	MWh	MWh	Delivered	Paid	Lost MWh	Paid	Codes	Paid
WOITH	IVIVVII	IVIVVII	Delivered	Faiu	LOST MINNI	Faiu	Codes	Falu
Jan-22								
Feb-22								
Mar-22								
Apr-22								
May-22								
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Oct-22								
Nov-22								
Dec-22								
Total-22								
Jan-23								
Feb-23								
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Oct-23								
Nov-23								
Dec-23								
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Mar-24								
Apr-24								
May-24								
Jun-24								
Jul-24								
Aug-24								
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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.
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 3rd day of March 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
1	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	19- 704Official
2	Hillary	Creurer	hcreurer@allete.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	19- 704Official
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	19- 704Official
4	Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy		408 St. Peter Street Ste 350 Saint Paul MN, 55102 United States	Electronic Service		Yes	19- 704Official
5	Kim	Havey	kim.havey@minneapolismn.gov	City of Minneapolis		350 South 5th Street, Suite 315M Minneapolis MN, 55415 United States	Electronic Service		No	19- 704Official
6	Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association		4300 220th St W Farmington MN, 55024 United States	Electronic Service		No	19- 704Official
7	Kristin	Henry	kristin.henry@sierraclub.org	Sierra Club		2101 Webster St Ste 1300 Oakland CA, 94612 United States	Electronic Service		No	19- 704Official
8	Holly	Lahd	holly.lahd@target.com	Target Corporation		33 South 6th St CC-28662 Minneapolis MN, 55402 United States	Electronic Service		No	19- 704Official
9	Leann	Oehlerking Boes	lboes@mnpower.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	19- 704Official
10	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	19- 704Official
11	Christine	Schwartz	regulatory.records@xcelenergy.com	Xcel Energy		414 Nicollet Mall FL 7 Minneapolis MN, 55401- 1993 United States	Electronic Service		No	19- 704Official
12	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	19- 704Official
13	Shane	Stennes	stennes@umn.edu	University of Minnesota		319 15th Avenue SE Minneapolis MN, 55455 United States	Electronic Service		No	19- 704Official

#	First Name	Last Name	Email	Organization Agency	Address	Delivery Method	Alternate Delivery Method	View Trade Secret	Service List Name
14	Stuart	Tommerdahl	stommerdahl@otpco.com	Otter Tail Power Company	215 S Cascade St PO Box 496 Fergus Falls MN, 56537 United States	Electronic Service		No	19- 704Official
15	i Brian	Tulloh	btulloh@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan MN, 55121-2498 United States	Electronic Service		No	19- 704Official
10	Laurie	Williams	laurie.williams@sierraclub.org	Sierra Club	Environmental Law Program 1536 Wynkoop St Ste 200 Denver CO, 80202 United States	Electronic Service		No	19- 704Official

#	First Name	Last Name	Email	Organization	Agency	Address	Delivery Method	Alternate Delivery Method	Trade	Service List Name
1	Mara	Ascheman	mara.k.ascheman@xcelenergy.com	Xcel Energy	Agonoy	414 Nicollet Mall FI 5 Minneapolis MN, 55401 United States	Electronic Service	uu	No	19- 809Official List
2	Gail	Baranko	gail.baranko@xcelenergy.com	Xcel Energy		414 Nicollet Mall7th Floor Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
3	James J.	Bertrand	james.bertrand@stinson.com	STINSON LLP		50 S 6th St Ste 2600 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
4	Matthew	Brodin	mbrodin@allete.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	19- 809Official List
5	James	Canaday	james.canaday@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	Suite 1400 445 Minnesota St. St. Paul MN, 55101 United States	Electronic Service		No	19- 809Official List
6	John	Coffman	john@johncoffman.net	AARP		871 Tuxedo Blvd. St, Louis MO, 63119-2044 United States	Electronic Service		No	19- 809Official List
7	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	19- 809Official List
8	George	Crocker	gwillc@nawo.org	North American Water Office		5093 Keats Avenue Lake Elmo MN, 55042 United States	Electronic Service		No	19- 809Official List
9	James	Denniston	james.r.denniston@xcelenergy.com	Xcel Energy Services, Inc.		414 Nicollet Mall, 401-8 Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
10	Rebecca	Eilers	rebecca.d.eilers@xcelenergy.com	Xcel Energy		414 Nicollet Mall - 401 7th Floor Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
11	John	Farrell	jfarrell@ilsr.org	Institute for Local Self- Reliance		2720 E. 22nd St Institute for Local Self- Reliance Minneapolis MN, 55406 United States	Electronic Service		No	19- 809Official List
12	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	19- 809Official List
13	Edward	Garvey	garveyed@aol.com	Residence		32 Lawton St Saint Paul MN, 55102 United States	Electronic Service		No	19- 809Official List
14	James	Gignac	jgignac@ucsusa.org	Union of Concerned Scientists		1 N LaSalle St Ste 1904 Chicago IL,	Electronic Service		No	19- 809Official List

#	First Name	Last Name	Email	Organization	Agency	Address	Delivery Method	Alternate Delivery Method	Trade	Service List Name
						60602 United States				
15	Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy		408 St. Peter Street Ste 350 Saint Paul MN, 55102 United States	Electronic Service		No	19- 809Official List
16	Kim	Havey	kim.havey@minneapolismn.gov	City of Minneapolis		350 South 5th Street, Suite 315M Minneapolis MN, 55415 United States	Electronic Service		No	19- 809Official List
17	Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association		4300 220th St W Farmington MN, 55024 United States	Electronic Service		No	19- 809Official List
18	Michael	Норре	lu23@ibew23.org	Local Union 23, I.B.E.W.		445 Etna Street Ste. 61 St. Paul MN, 55106 United States	Electronic Service		No	19- 809Official List
19	Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law		2950 Yellowtail Ave. Marathon FL, 33050 United States	Electronic Service		No	19- 809Official List
20	Richard	Johnson	rick.johnson@lawmoss.com	Moss & Barnett		150 S. 5th Street Suite 1200 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
21	Sarah	Johnson Phillips	sjphillips@stoel.com	Stoel Rives LLP		33 South Sixth Street Suite 4200 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
22	Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.		8300 Norman Center Drive Suite 1000 Bloomington MN, 55437 United States	Electronic Service		No	19- 809Official List
23	Ryan	Long	ryan.j.long@xcelenergy.com			414 Nicollet Mall 401 8th Floor Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
24	Kavita	Maini	kmaini@wi.rr.com	KM Energy Consulting, LLC		961 N Lost Woods Rd Oconomowoc WI, 53066 United States	Electronic Service		No	19- 809Official List
25	Mary	Martinka	mary.a.martinka@xcelenergy.com	Xcel Energy Inc		414 Nicollet Mall 7th Floor Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
26	Joseph	Meyer	joseph.meyer@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	Bremer Tower, Suite 1400 445 Minnesota Street St Paul MN, 55101-2131 United States	Electronic Service		No	19- 809Official List
27	Stacy	Miller	stacy.miller@minneapolismn.gov	City of Minneapolis		350 S. 5th Street Room M 301	Electronic Service		No	19- 809Official List

#	First Name	Last Name	Email	Organization	Agency	Address	Delivery Method	Alternate Delivery Method	Trade	Service List Name
						Minneapolis MN, 55415 United States				
28	David	Moeller	dmoeller@allete.com	Minnesota Power			Electronic Service		No	19- 809Official List
29	Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP		33 South Sixth St Ste 4200 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
30	David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency		220 South Sixth Street Suite 1300 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
31	Leann	Oehlerking Boes	lboes@mnpower.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	19- 809Official List
32	Carol A.	Overland	overland@legalectric.org	Legalectric - Overland Law Office		1110 West Avenue Red Wing MN, 55066 United States	Electronic Service		No	19- 809Official List
33	Audrey	Partridge	audrey.peer@centerpointenergy.com	CenterPoint Energy Minnesota Gas		212 3rd Ave. N. Suite 560 Minneapolis MN, 55401 United States	Electronic Service		No	19- 809Official List
34	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	19- 809Official List
35	Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy		26 E Exchange St, Ste 206 St. Paul MN, 55101-1667 United States	Electronic Service		No	19- 809Official List
36	Amanda	Rome	amanda.rome@xcelenergy.com	Xcel Energy		414 Nicollet Mall FL 5 Minneapoli MN, 55401 United States	Electronic Service		No	19- 809Official List
37	Christine	Schwartz	regulatory.records@xcelenergy.com	Xcel Energy		414 Nicollet Mall FL 7 Minneapolis MN, 55401- 1993 United States	Electronic Service		No	19- 809Official List
38	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	19- 809Official List
39	Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates		7400 Lyndale Ave S Ste 190 Richfield MN, 55423 United States	Electronic Service		Yes	19- 809Official List
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44	Stuart	Tommerdahl	stommerdahl@otpco.com	Otter Tail Power Company		215 S Cascade St PO Box 496 Fergus Falls MN, 56537 United States	Electronic Service		No	19- 809Official List
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46	Laurie	Williams	laurie.williams@sierraclub.org	Sierra Club		Environmental Law Program 1536 Wynkoop St Ste 200 Denver CO, 80202 United States	Electronic Service		No	19- 809Official List
47	Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine		225 South Sixth Street, Suite 3500 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List
48	Kurt	Zimmerman	kwz@ibew160.org	Local Union #160, IBEW		2909 Anthony Ln St Anthony Village MN, 55418-3238 United States	Electronic Service		No	19- 809Official List
49	Patrick	Zomer	pat.zomer@lawmoss.com	Moss & Barnett PA		150 S 5th St #1200 Minneapolis MN, 55402 United States	Electronic Service		No	19- 809Official List