



414 Nicollet Mall
Minneapolis, MN 55401

September 26, 2024

—Via Electronic Filing—

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

RE: SUPPLEMENTAL FILING
XCEL ENERGY'S 2023 ANNUAL REPORT AND PETITION ON SERVICE QUALITY
PERFORMANCE AND PROPOSED RELIABILITY MEASURES
DOCKET NO. E002/M-24-27

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission the attached Supplement to the Company's 2023 Service Quality Performance Annual Report and Petition submitted April 1, 2024 in the above-noted docket.

This Supplement provides information in compliance with the Commission's Order Point 4 in its December 5, 2023 Order in Docket No. E002/M-23-73, which requires the Company to submit a supplemental filing 30 days after IEEE publishes the 2023 reliability benchmarking results, comparing the Company's statewide reliability for 2023 to the IEEE benchmarking results. The IEEE 2023 benchmarking results were published on September 16, 2024. In this Supplement, we also update graphs from our April filing on the Company's reliability by work center to reflect the IEEE benchmarking results for 2023.

The Company continues to request that the Commission accept our annual report for 2023, as updated in this Supplement, and approve our proposed reliability standards for 2024 as detailed in our April filing and discussed in this filing.

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 Nathan Kostiuk at nathan.c.kostiuk@xcelenergy.com or 612-215-4629 or me at gail.baranko@xcelenergy.com or 612-330-6935 if you have any questions regarding this filing.

Sincerely,

/s/

GAIL BARANKO
MANAGER REGULATORY ADMINISTRATION

Enclosure
c: Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Hwikwon Ham	Commissioner
Valerie Means	Commissioner
Joseph K. Sullivan	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF NORTHERN STATES
POWER COMPANY'S ANNUAL REPORT ON
SAFETY, RELIABILITY, AND SERVICE
QUALITY FOR 2023; AND PETITION FOR
APPROVAL OF ELECTRIC RELIABILITY
STANDARDS FOR 2024

DOCKET NO. E002/M-24-27

SUPPLEMENTAL FILING

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Supplement to our April 1, 2024 Annual Report on our safety, reliability, and service quality performance for 2023. We submit this filing in compliance with Order Point 4 in the Commission's December 5, 2023 Order in Docket No. E002/M-23-73, which requires the Company to submit a supplemental filing 30 days after IEEE publishes the 2023 reliability benchmarking results, comparing the Company's statewide reliability for 2023 to the IEEE benchmarking results.

In this Supplement, we show that the Company met all but one of the 2023 standards for its Minnesota service territory based on the IEEE benchmarking results for 2023, which were published on September 16, 2024.

As we committed in our April filing, we also provide in this Supplement updated graphs on the Company's reliability by work center to reflect the IEEE benchmarking results for 2023 that are now available. With this additional information, we continue to request that the Commission accept our annual report for 2023 as updated in this Supplement and approve our proposed reliability standards for 2024 as detailed in our April 1, 2024 filing and discussed below.

SUPPLEMENTAL INFORMATION

I. STATEWIDE RELIABILITY 2023

Order Point 4 in the Commission’s December 5, 2023 Order in Docket No. E002/M-23-73 states:

Set Xcel Energy’s 2023 statewide Reliability Standard at the IEEE benchmarking 2nd Quartile for large utilities. Set Xcel’s Southeast and Northwest work center reliability standards at the IEEE benchmarking 2nd quartile for medium utilities. Set Xcel’s Metro East and Metro West work center reliability center standards at the IEEE benchmarking 2nd quartile for large utilities. Required Xcel to file a supplement to its 2023 SQSR report 30 days after IEEE publishes the 2023 benchmarking results, with an explanation for any standards the utility did not meet.

Supplemental Table A below provides the Company’s Minnesota service territory-wide and work center specific reliability performance results for SAIDI, SAIFI, and CAIDI compared to the standards set by the Commission. The standards set by the Commission are the IEEE Distribution Reliability Working Group (DRWG) benchmarking results for 2023 at the second quartile for large and medium utilities.

**Supplemental Table A
Minnesota Service Territory Reliability – 2023**

		Performance Results	Standards
Minnesota	SAIDI	86.40	114
	SAIFI	0.85	0.96
	CAIDI	101.56	126
Metro East	SAIDI	105.04	114
	SAIFI	0.99	0.96
	CAIDI	105.66	126
Metro West	SAIDI	71.41	114
	SAIFI	0.77	0.96
	CAIDI	92.79	126
Northwest	SAIDI	95.39	121
	SAIFI	0.90	1.00
	CAIDI	105.85	139
Southeast	SAIDI	87.28	121
	SAIFI	0.71	1.00
	CAIDI	122.43	139

As shown, on a Minnesota service territory-wide basis, the Company met the reliability thresholds for SAIFI, SAIDI, and CAIDI for 2023 at the IEEE benchmarking second quartile for large utilities.

On a work center basis, the Metro West, Northwest and Southeast work centers met the reliability thresholds for SAIFI, SAIDI, and CAIDI for 2023 at the IEEE benchmarking second quartile for large utilities.

Metro East work center met the reliability thresholds for SAIDI and CAIDI at the IEEE benchmarking second quartile for large utilities, but missed SAIFI by 0.03 interruptions. The Company exceeded the Metro East work center SAIFI threshold due to an increase in storm impacts and inclement weather conditions during the summer months of 2023. SAIFI is the measure of the average frequency of sustained service interruptions per customer throughout the year. With an increase in storm activity this naturally resulted in a rise of outages resulting from high wind, tree contacts, and lightning strikes. Part of the difference is also due to an improvement within the benchmarking group which improved median SAIFI by 0.06 in 2023. Metro East work center 2023 SAIFI performance was better than the 2nd quartile threshold levels in each of the prior 5 years (2018-2022). We have provided information around the Metro East work center in our annual filing. Graph 1A identifies a five-year average of top outage causes of Metro East work center: vegetation and overhead equipment were the top causes. Graphs 2, 3, & 4 show the five-year trend of all three indices along with top level and cause of outages from the current year. Table 14 lists transmission and distribution events along with Major Event Days and moderate storm activity. Upon review of that information, we believe those discussions address the reasons for the missed SAIFI threshold compared to IEEE benchmarking results.

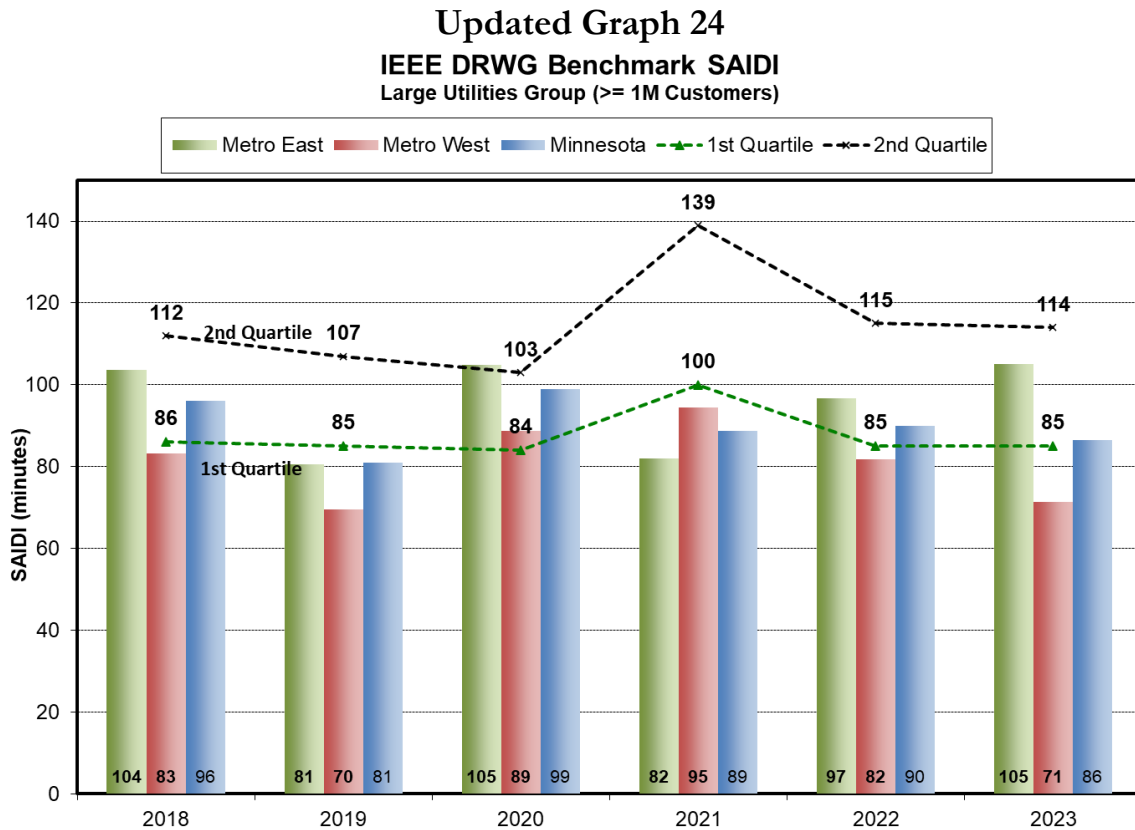
We have also provided information around Minnesota and the other three work centers in our April filing. Graphs 1(A-D) identifies top outage causes for Minnesota and work centers in 2023. Graphs 2 through 13 show the five-year trend of all three indices along with top level and cause of outages from the current year. Tables 14 through 17 list transmission and distribution events along with Major Event Day and moderate storm activity information. Those Annual Report discussions provide insight into outages and work center events contributing to year end indices results.

II. PROPOSED RELIABILITY STANDARDS FOR 2024

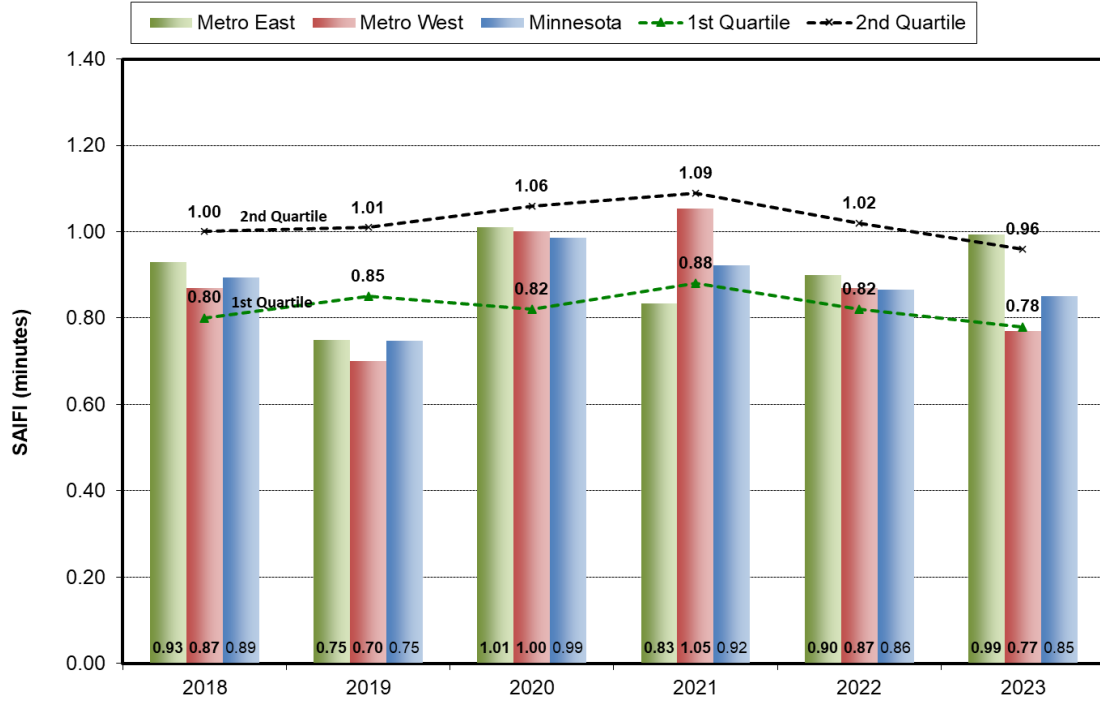
In our Annual Report and Petition, we proposed reliability standards for 2024 as required under Minn. R. 7826.0600. Specifically, we proposed a benchmarking standard for each work center similar to the standard the Commission set for

Minnesota overall. For the Company’s two large metro regions, we proposed the IEEE benchmark for large utilities. This would be the same standard as utilized for Minnesota overall. For the two more rural areas of the Northwest and Southeast work centers, we proposed the IEEE benchmark for medium utilities. The standard for all proposals is to achieve metrics at or better than the second quartile.

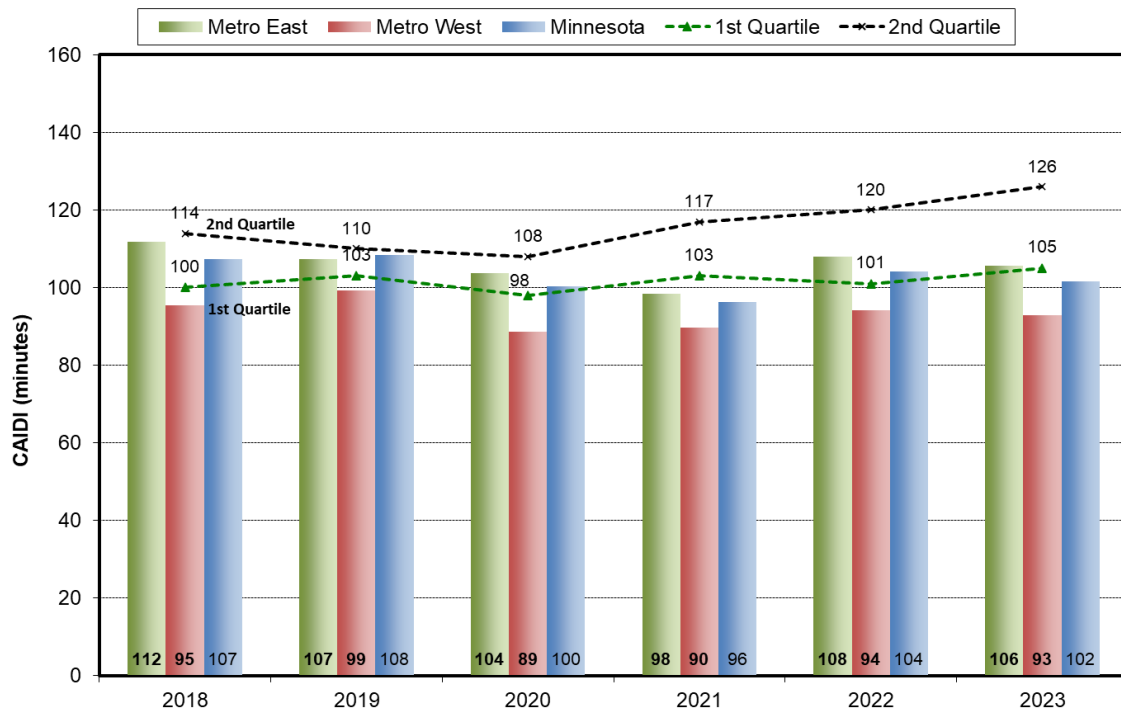
We provided graphs in our Annual Report showing historic reliability by work center compared to IEEE benchmarking results for 2018-2022. With the 2023 IEEE results now available, this Supplement updates Graphs 24 through 29 from our April filing to include the applicable 2023 IEEE benchmarking results for each work center for SAIDI, SAIFI, and CAIDI. Updated Graphs 24, 25, and 26 provide the large utility data for our Metro West and Metro East work centers, as well as for our Minnesota service territory overall. Updated Graphs 27, 28, and 29 provide the medium utility data for our Southeast and Northwest work centers.



Updated Graph 25 IEEE DRWG Benchmark SAIFI Large Utilities Group (>= 1M Customers)

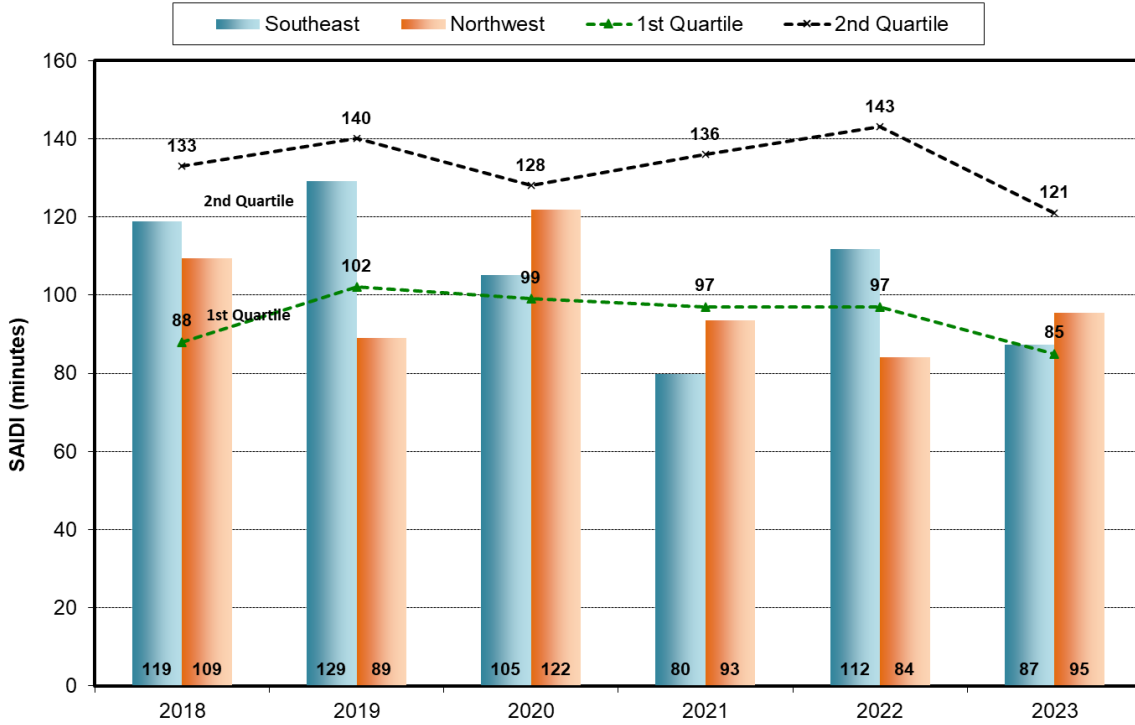


Updated Graph 26 IEEE DRWG Benchmark CAIDI Large Utilities Group (>=1M Customers)



Updated Graph 27 IEEE DRWG Benchmark SAIDI

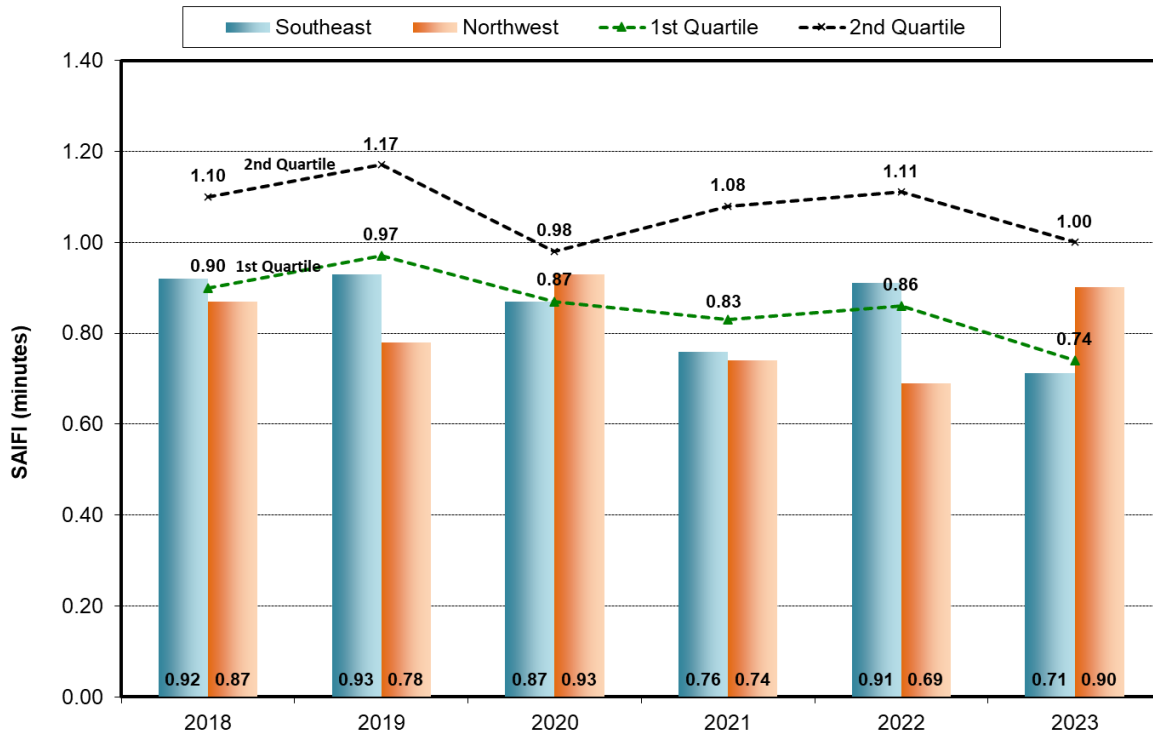
Medium Utilities Group (>100,000 and < 1,000,000 Customers)



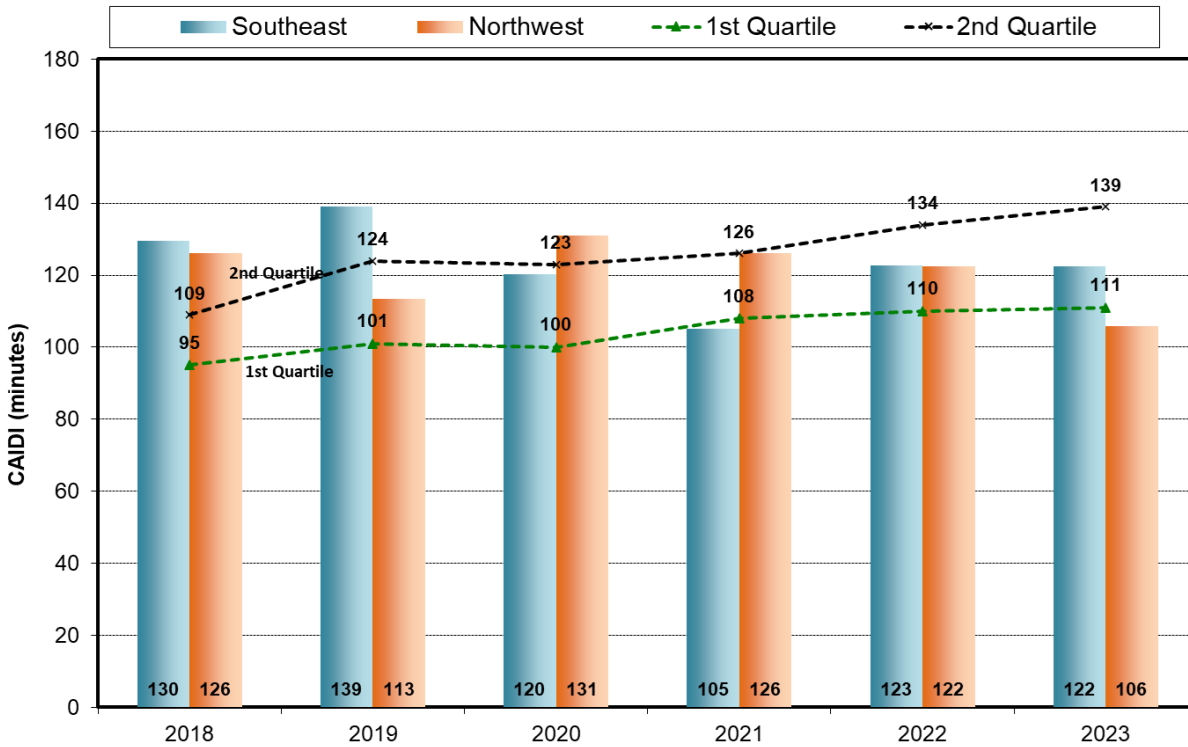
Updated Graph 28

IEEE DRWG Benchmark SAIFI

Medium Utilities Group (>100,000 and < 1,000,000 Customers)



Updated Graph 29
IEEE DRWG Benchmark CAIDI
 Medium Utilities Group (>100,000 and < 1,000,000 Customers)



As shown in these graphs, and as discussed above, the Company met 11 of the 12 standards for the work centers in 2023.

In 2021, the Company transitioned to utilizing the nationally recognized IEEE Distribution Reliability Working Group survey to benchmark our performance for the purposes of setting standards for SAIDI, SAIFI, and CAIDI. Applicable IEEE benchmarking results are used to set work center reliability standards for 2024 based on second quartile performance levels. Comparisons are not perfect because each utility, and indeed each work center for the Company, is unique relative to such things as infrastructure, system layout, operating structure, and weather patterns. While recognizing significant differences exist in performance capabilities of various utilities, a better-than-average (i.e., second quartile or better) reliability performance of a utility compared to its peers suggests that the utility is attentive to providing quality service performance to its customers.

At the same time, we recognize that missing the second quartile benchmarking standard for a given year may not necessarily be indicative of systemic reliability issues in a particular work center. However, tracking of performance over time compared to benchmarking results may highlight possible reliability issues. We would pay close attention to these results and would assess in detail work center performance and operations where specific standards are not met.

Given the IEEE benchmarking results for 2023, we propose to continue to use the applicable benchmarking standards for each work center. We support standards at the second quartile of the IEEE benchmark for large utilities for our Metro East and Metro West work centers, and at the second quartile of the IEEE benchmark for medium utilities for our Northwest and Southeast work centers.

CONCLUSION

We submit this supplemental filing in compliance with Commission order, and we appreciate the opportunity to include this updated information for our Annual Report. We respectfully request that the Commission accept our Annual Report on safety, reliability, and service quality, as updated by this Supplement. We also continue to request that the Commission approve our proposed reliability standards for 2024 as detailed in our April filing and discussed in this Supplement.

Dated: September 26, 2024
Northern States Power Company

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

electronic filing

DOCKET No. E002/M-24-27

Dated this 26th day of September 2024

/s/

Joshua DePauw
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Marisa	Bayer	mbayer@edinamn.gov	City of Edina	4801 W 50th St Edina, MN 55424	Electronic Service	No	OFF_SL_24-27_Official
James J.	Bertrand	james.bertrand@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Olivia	Carroll	oliviac@cupminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_24-27_Official
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St. Louis, MO 63119-2044	Electronic Service	No	OFF_SL_24-27_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_24-27_Official
Brandon	Crawford	brandonc@cupminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_24-27_Official
George	Crocker	gwillc@nawo.org	North American Water Office	5093 Keats Avenue Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_24-27_Official
Christopher	Droske	christopher.droske@minneapolismn.gov	City of Minneapolis	661 5th Ave N Minneapolis, MN 55405	Electronic Service	No	OFF_SL_24-27_Official
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_24-27_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_24-27_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_24-27_Official
Shubha	Harris	Shubha.M.Harris@xcelenergy.com	Xcel Energy	414 Nicollet Mall, 401 - FL 8 Minneapolis, MN 55401	Electronic Service	Yes	OFF_SL_24-27_Official
Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_24-27_Official
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_24-27_Official
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave. Marathon, FL 33050	Electronic Service	No	OFF_SL_24-27_Official
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
William D	Kenworthy	will@votesolar.org	Vote Solar	1 South Dearborn St Ste 2000 Chicago, IL 60603	Electronic Service	No	OFF_SL_24-27_Official
Samuel B.	Ketchum	sketchum@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	OFF_SL_24-27_Official
Annie	Levenson Falk	annief@cupminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota Street, Suite W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_24-27_Official
Kavita	Maini	kmairi@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_24-27_Official
Erica	McConnell	emcconnell@elpc.org	Environmental Law & Policy Center	35 E. Wacker Drive, Suite 1600 Chicago, IL 60601	Electronic Service	No	OFF_SL_24-27_Official
Tony	Mendoza	tony.mendoza@sierraclub.org	Sierra Club Environmental Law Program	2101 Webster St. 13th Floor Oakland, CA 94612	Electronic Service	No	OFF_SL_24-27_Official
Stacy	Miller	stacy.miller@minneapolismn.gov	City of Minneapolis	350 S. 5th Street Room M 301 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_24-27_Official
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_24-27_Official
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Pouya	Najmaie	pouya@cooperativeenergyfutures.com	Cooperative Energy Futures	3416 16th Ave S Minneapolis, MN 55407	Electronic Service	No	OFF_SL_24-27_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Scott	Neal	sneal@edinamn.gov	City of Edina	4801 W 50th St Edina, MN 55424	Electronic Service	No	OFF_SL_24-27_Official
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Carol A.	Overland	overland@legalectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	OFF_SL_24-27_Official
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_24-27_Official
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_24-27_Official
Christine	Schwartz	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	Yes	OFF_SL_24-27_Official
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_24-27_Official
George	Shardlow	george@energycents.org	Energy CENTS Coalition	823 E. 7th Street Saint Paul, MN 55106	Electronic Service	No	OFF_SL_24-27_Official
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd St. Paul, MN 55102	Electronic Service	No	OFF_SL_24-27_Official
Byron E.	Starns	byron.starns@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Lauren	Steinhaeuser	lauren.steinhaeuser@xcelenergy.com	Northern States Power Company dba Xcel Energy	414 Nicollet Mall, 401-08 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_24-27_Official
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_24-27_Official
Carla	Vita	carla.vita@state.mn.us	MN DEED	Great Northern Building 12th Floor 180 East Fifth Street St. Paul, MN 55101	Electronic Service	No	OFF_SL_24-27_Official
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official
Kurt	Zimmerman	kwz@ibew160.org	Local Union #160, IBEW	2909 Anthony Ln St Anthony Village, MN 55418-3238	Electronic Service	No	OFF_SL_24-27_Official
Patrick	Zomer	Pat.Zomer@lawmoss.com	Moss & Barnett PA	150 S 5th St #1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_24-27_Official