Direct Testimony and Schedules Michelle M. Terwilliger

Before the Minnesota Public Utilities Commission State of Minnesota

In the Matter of the Application of Northern States Power Company for Authority to Increase Rates for Natural Gas Service in Minnesota

> Docket No. G002/GR-25-356 Exhibit__(MMT-1)

Rate Design and Decoupling

October 31, 2025

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1		I. INTRODUCTION AND QUALIFICATIONS
2		
3	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
4	Α.	My name is Michelle M. Terwilliger. My business address is 414 Nicollet Mall,
5		Minneapolis, Minnesota 55401.
6		
7	Q.	BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?
8	Α.	I am employed by Northern States Power Company – Minnesota (NSPM or the
9		Company). My title is Pricing Consultant.
10		
11	Q.	FOR WHOM ARE YOU TESTIFYING?
12	Α.	I am testifying on behalf of the Company.
13		
14	Q.	PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.
15	Α.	I have worked for the Company as a Pricing Consultant and formerly as a
16		Principal Rate Analyst in Regulatory Affairs for more than twelve years. I
17		provide rate design, rate-revenue determinations, cost allocations, and other
18		pricing functions for the utility operating subsidiaries of Xcel Energy Inc.
19		Previously, I worked for Midwest Energy, Inc. as Manager of Customer
20		Accounting and North Central Public Service Co., a gas utility, as a Rate Analyst
21		and rate witness before the Iowa Public Utilities Commission. I received my
22		bachelor's degree in accounting from the University of Minnesota. A statement
23		of my qualifications and experience is provided as Exhibit(MMT-1), Schedule
24		1.
25		
26	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

1	Α.	My Direct Testimony presents the Company's proposed rate design for
2		recovering the revenue requirement provided by Company witness Benjamin C.
3		Halama in his Direct Testimony for the test year ending December 31, 2026 for
4		NSPM's State of Minnesota natural gas jurisdiction. The Class Cost of Service
5		Study (CCOSS) provided by Company witness Christopher J. Barthol was the
6		starting point for the apportionment of the retail test year revenue requirement
7		among the rate classes. I also sponsor the Company's rate schedules and tariffs.
8		A summary of the tariff changes proposed in this case is included as
9		Exhibit(MMT-1), Schedule 9. I also describe certain proposed tariff changes,
10		and the Company's proposed continuation of the Revenue Decoupling
11		Mechanism (RDM). Finally, I provide information on rate design related
12		compliance requirements.
13		
14		II. RATE DESIGN GOALS
15		
16	Q.	WHAT ARE THE COMPANY'S PRIMARY PRICING OBJECTIVES IN THE DESIGN OF
17		NATURAL GAS RATES?
18	Α.	The primary natural gas rate design objectives are:
19		1) To collect total revenues sufficient to recover the Company's test year
20		cost of service, including a reasonable return on investment;
21		2) To achieve fair and equitable rate levels that reflect the cost of providing
22		service to each customer class, as supported by the CCOSS;
23		3) To encourage efficient and economic energy use;
24		4) To moderate billing impacts, be understandable and provide customer
25		choices; and

1	5) To provide value-based pricing and service conditions, where needed, to
2	allow the Company's natural gas services to be competitive with other
3	energy sources.

Q. How does the Company apply these objectives when designing rates?

A. The first objective is a requirement to precisely match proposed rates to the proposed total revenue requirement. To equitably achieve this objective, and to also provide price incentives for the economically efficient use of energy resources, the rate design process starts by examining and using natural gas service costs by customer class and rate component. From this objective cost basis, we consider and balance the remaining objectives according to circumstances to develop a proposed rate design that is reasonable and fair for all customers.

III. TEST YEAR REVENUES

Α.

17 Q. WHAT ARE THE TEST YEAR REVENUES AT PRESENT AND PROPOSED RATES?

The 2026 test year revenues, applying present and proposed rates for the Company's gas utility-Minnesota jurisdiction, are \$774.8 million and \$838.2 million, respectively. The \$63.4 million difference between the two revenue levels is the revenue deficiency supported by Company witness Halama's testimony. Present rates refer to the rates authorized in the Company's last natural gas rate case, Docket No. G002/GR-23-413 for test year 2024, which became effective on June 1, 2025. The proposed rates are designed to produce an increase in retail revenues of \$63.4 million. Forecasted sales and transportation service volumes for the 2026 test year, provided by Company

	witness John M. Goodenough, were applied to both the present and proposed
	rates to obtain these test year revenues.
	As Company witness Halama explains in his Direct Testimony, the level of
	Conservation Improvement Program (CIP) expenditures in the jurisdictional
	cost-of-service study is equal to the level of CIP revenues in base rates. The
	amount of the 2026 test year CIP revenues in base rates is included in
	Exhibit(MMT-1), Schedule 2.
	IV. DESCRIPTION OF NSPM REGULATED NATURAL GAS SERVICES
Q.	WHAT GENERAL CATEGORIES OF SERVICE DOES NSPM PROVIDE TO ITS
	NATURAL GAS CUSTOMERS IN MINNESOTA?
A.	The Company provides sales service and transportation service. Sales service is
	a "bundled" gas utility service offering, where the Company procures wholesale
	natural gas for customers, procures the necessary interstate gas pipeline
	transportation, and distributes and resells the gas to these customers.
	Transportation service customers acquire their own gas supplies via a third-
	party gas supplier and procure their own pipeline transportation to the
	Company's town border station(s). The Company then delivers this third-party
	gas to the Transportation customers' premises through the Company's gas
	distribution system.
	Customers, whether Sales or Transportation, can take either Firm or
	Interruptible service. Firm service is typically provided all of the time, without
	interruption and not subject to curtailment, and is priced to include the costs of

1		maintain system reliability or for economic reasons ¹ and is priced to reflect both
2		the potential for interruption and the competitive alternatives. The vast majority
3		of the Company's customers take firm, bundled sales service.
4		
5	Q.	PLEASE PROVIDE A SUMMARY OF THE COMPANY'S SERVICES.
6	Α.	The Company's Services include the following:
7		
8		<u>Services</u>
		Firm Sales
9		Residential
10		Small Commercial Firm
		Large Commercial Firm
11		Small Commercial Demand Billed
12		Large Commercial Demand Billed
13		Interruptible Sales
		Small Volume Interruptible
14		
15		Medium Volume Interruptible
13		Large Volume Interruptible
16		Fine and Intermetible Transfortation
17		Firm and Interruptible Transportation Large Firm Transportation
18		Small Interruptible Transportation
19		Medium Interruptible Transportation
20		V. REVENUE REQUIREMENT APPORTIONMENT
21		
22	Q.	WHAT IS REVENUE APPORTIONMENT?
	`	
23	Α.	Other witnesses describe the Company's revenue requirement, which is the
24		amount of revenue to be recovered through rates. Revenue apportionment is

¹ In the Matter of a Commission Investigation into the Impact of Severe Weather in February 2021 on Impacted Minnesota Natural Gas Utilities and Customers, Docket No. G999/CI-21-135, ORDER REQUIRING ACTIONS TO MITIGATE IMPACTS FROM FUTURE NATURAL GAS PRICE SPIKES, SETTING FILING REQUIREMENTS, AND INITIATING A PROCEEDING TO ESTABLISH GAS RESOURCE PLANNING REQUIREMENTS AT 8-9 (February 17, 2023).

1	the process to determine how much of the revenue requirement should be
2	recovered from each customer class.

- 4 Q. WHAT ARE THE GOALS OF DEVELOPING A REVENUE APPORTIONMENT?
- 5 Apportioning revenues among rate classes involves deriving a reasonable 6 balance between various criteria or guidelines that relate to the design of utility 7 rates. The various criteria that were considered in the process included: (1) cost 8 of service; (2) class contribution to present revenue levels; and (3) customer 9 impact considerations, such as rate shock. These criteria were evaluated for each 10 of the Company's rate classes. Based on this evaluation, adjustments to the 11 present revenue levels in certain rate classes were made so that the rates 12 proposed by the company moved class revenues closer to the costs of serving 13 those rate classes. Importantly, the Company's revenue adjustments were not 14 determined on the basis of a desired outcome, but instead were derived based 15 on a careful and balanced evaluation of the chosen criteria.

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- 17 Q. How was the proposed revenue requirement apportionment 18 Developed?
 - A. As mentioned above and consistent with our pricing objectives, the starting point for proposed class revenue apportionment, or class revenue responsibilities, are the class cost responsibilities, as determined by the CCOSS sponsored by Company witness Barthol. As explained in more detail by Company witness Barthol, the CCOSS is a tool to estimate which classes are causing the various cost items that make up the revenue requirement. The resulting cost increases by class are then considered individually, and relative to the total retail increase, to consider whether a full movement to class responsibilities should be moderated.

1	Q.	DO YOU PROPOSE TO SET REVENUE APPORTIONMENT BASED ENTIRELY ON THE
2		RESULTS OF THE CCOSS?

No. While it would, theoretically, be most economically efficient to set rates based on the embedded costs estimated in the CCOSS, the Company tempered that objective by applying the other goals I described earlier, such as emphasizing value/competitive-based pricing for competitive services, market considerations, and limiting rate increases to moderate levels. In general, these factors suggest that it would not be reasonable to increase residential rates as much as would be required to match them up to the level of cost responsibility estimated in the CCOSS. Consequently, the Company used the CCOSS as a guideline, but not as a final determinant for revenue apportionment by class. A summary page from the CCOSS showing the difference between current revenues and costs is provided in Exhibit ___(MMT-1), Schedule 3.

- Q. What do you conclude about cost responsibility based on the Company's CCOSS results?
- A. The CCOSS indicates that the overall increase is 8.18 percent. At cost,
 Residential and Small Commercial classes would receive increases of 11.2
 percent and 21.5 percent, respectively. The Generation class shows an increase of 130.1 percent. A rate decrease is indicated for the other four classes. Table 1 below shows the CCOSS results.

Table 1
Summary of Class Cost of Service Study (\$000)

Item	Resid- ential	Small Comm	Large Comm	Demand	Interr- uptible	Transp- ortation	Gen- ration	Total
CCOSS Results \$	503,675	72,421	163,443	22,982	40,694	7,753	27,237	838,205
Present Revenue \$	452,991	59,599	172,032	24,367	45,968	8,010	11,835	774,803
Revenue Deficiency \$	50,685	12,822	-8,589	-1,386	-5,274	-257	15,402	63,401
Deficiency	11.2%	21.5%	-5.0 %	-5.7 %	-11.5%	-3.2%	130.1%	8.2%

Q. How did you determine how to balance the various factors in developing a revenue apportionment?

- A. The Company's goal was to recover as closely as possible the costs of service imposed by each class, while avoiding sharp increases in rates. After evaluating the results of the CCOSS, the next step in developing the class apportionment was to consider the appropriate level of increase to those classes identified in the CCOSS as requiring an increase. The remainder of the increase was spread amongst the other classes. The following list is an explanation of our apportionment by class.
 - Residential and Small Commercial: The Company proposes an increase of 8.7 percent for the Residential class and 11.2 percent for the Small Commercial class. The CCOSS indicates these classes should receive increases of 11.2 percent and 21.5 percent, respectively. We moderated these increases to instead move approximately 20 percent towards full cost. The Company's proposed revenue responsibility allocation for the Residential class will eliminate approximately 78 percent of the difference between present rates and the test year embedded cost of service.

² Movement towards cost is defined as the relative position between a class increase set at the average retail increase (no movement towards cost) and a class increase set at the class cost indicated by the CCOSS (full movement to cost).

Because revenues for Residential and Small Commercial revenues are not
equal to their full cost, the remaining classes will receive an increase
above their embedded cost to serve, in order to cover the portion of the
revenue deficiency that remains.

- Interruptible: We propose an increase of 7.6 percent for the Interruptible class. For this proposal, I reviewed market price forecasts of the customers' typical competitive alternatives and considered the value of Interruptible service compared to Firm service. This value-based approach to pricing Interruptible service results in the recovery of more than this class's embedded cost of service shown in the CCOSS.
- Large Commercial and Demand Billed: We propose a 5.0 percent increase for the Large Commercial class and 7.0 percent increase for the Demand class. The CCOSS indicates that Large Commercial and Demand Billed should receive decreases that are similar at 5.0 percent and 5.7 percent, respectively. Therefore, we attempt to apply a similar size increase to the Large Commercial and Demand classes. However, as noted below, we have longstanding rate relationships to maintain between Large Commercial, Demand Billed, and Interruptible classes, and the resulting apportionment is more similar across these classes than the CCOSS indicates.
- Transportation: The CCOSS indicates a 3.2 percent decrease for this class. Because we set rates for this class at the same level as the corresponding sales service, the apportionment for this class is tied to ratemaking for other classes and not assigned separately. Additionally, some customers in this class are on contracted (negotiated) rates and therefore would not be assigned revenue increases.

•	Generation: The Generation class is largely made up of customers on
	contracted rates, along with smaller customers taking Interruptible
	service or Demand service. Because of this, apportionment for this class
	is tied to other classes and not directly assigned.

Finally, the Company reviewed the apportionment to ensure that longstanding rate relationships between Firm and Interruptible rate classes, as well as between Sales Service and Transportation rate classes, were maintained. For example, Interruptible rates must be set at a discount relative to firm rates to reflect the less reliable nature of interruptible service. In addition, relationships within the small, medium, and large categories of a class should be maintained. Also, the Company's goal is to remain indifferent to a customer's choice regarding gas supplier, and therefore the proposed non-gas margins for corresponding Sales and Transportation Service are equal. The Company's proposed revenue apportionment maintains each of these relationships. The resulting apportionment is provided in Exhibit_(MMT-1), Schedule 4.

- Q. Please provide the overall class impacts of the Company's proposed revenue apportionment and compare them to the CCOSS-indicated revenue apportionment.
- A. Table 2 provides the overall class impacts of the Company-proposed apportionment and compares it to the CCOSS-indicated apportionment. The apportionment is provided in Schedule 4.

Table 2
Revenue Apportionment

	(\$000)			
Customer Class	Present Revenues	CCOSS Costs of Service	Proposed Revenue	
Residential % increase	\$452,991	\$503,675 11.2%	\$492,329 8.7%	
Small Commercial % increase	\$59,599	\$72,421 21.5%	\$66,289 11.2%	
Large Commercial % increase	\$172,032	\$163,443 -5.0%	\$180,643 5.0%	
Demand % increase	\$24,367	\$22,982 -5.7%	\$26,078 7.0%	
Interruptible % increase	\$45,968	\$40,694 -11.5%	\$49,446 7.6%	
Transport % increase	\$8,010	\$7,753 -3.2%	\$9,448 17.9%	
Generation % increase	\$11,835	\$27,237 130.1%	\$12,841 8.5%	
Other Revenues			\$1,131	
Total % increase	\$774,803	\$838,205 8.2%	\$838,205 8.2%	

4 Q. Please describe Exhibit___(MMT-1), Schedules 5, 6, and 7.

In compliance with the requirements of Minn. R. 7825.4300, Exhibit___(MMT-1), Schedule 5 summarizes the present and proposed test year revenues and contains the test year number of customers, sales, present and proposed test year rates, the Base Cost of Gas (BCOG) rates, and the resulting revenues. This information is provided in summary for each class (page 1); and for each rate component charged to each class (pages 2 through 5). Exhibit__(MMT-1), Schedule 6 contains the present and proposed rates for the test year revenue requirement. Exhibit__(MMT-1), Schedule 7 provides the resulting revenues

1		under the proposed test year revenue requirement compared to the class
2		revenue requirements as determined by the CCOSS.
3		
4		VI. RATE DESIGN OVERVIEW
5		
6	Q.	WHAT IS RATE DESIGN?
7	Α.	Once a revenue requirement has been determined, and the revenue requirement
8		has been apportioned to the various customer classes, it must be determined
9		how the class revenue will be recovered from customers. That process is
10		referred to as rate design.
11		
12	Q.	PLEASE DESCRIBE HOW THE COMPANY STRUCTURES RATES CURRENTLY.
13	Α.	The Company's current rates are structured as either two- or three-part rates.
14		Two-part rates consist of a monthly fixed Customer Charge and a volumetric
15		Distribution Charge applied to a customer's use during the billing period. Three-
16		part rates add a Demand Charge that is assessed on a customer's peak day
17		demand. In addition, the Company collects a Cost of Gas charge that reflects
18		the BCOG plus the Purchased Gas Adjustment (PGA) for changes in wholesale
19		gas, transportation, and storage costs in each month. Although the BCOG will
20		be re-set in conjunction with this proceeding, the fundamental rate design issues
21		in this proceeding relate to recovery of the Company's non-commodity costs of
22		providing retail distribution service.
23		
24	Q.	Do present and proposed revenue include revenue from the
25		COMPANY'S COST RECOVERY RIDERS?

1	Α.	Yes. Present revenue for test year 2026 includes revenue from the CIP
2		Adjustment Rider and Gas Utility Infrastructure Cost Rider (GUIC). The total
3		2026 test year rider revenues being rolled into base rates are \$22,737,726.

- 5 Q. DO YOU RECOMMEND ANY CHANGES TO THE CURRENT RATE DESIGN?
- A. Yes. Our current rates have a shortcoming because our Customer Charge is unreasonably low. In general, Customer Charges should be designed to recover the fixed costs of the system costs that do not change based on usage while volumetric charges should be designed to recover variable costs. This results in a rate design that is efficient and based on cost causation.

The goals of efficient and economic energy use are to reduce intra-class subsidies by having rates that provide appropriate price signals by recovering fixed costs through fixed charges from both lower-use and higher-use customers. If, absent fuel costs, it costs the same amount to connect and serve a lower-use and a higher-use customer, then the appropriate price signal would be to charge each customer the same fixed charge. The reasonable and equitable way to address the intra-class subsidies is by putting more of the fixed costs into the customer charge.

In Minnesota, we are currently recovering a significant percentage of fixed costs through volumetric charges, which is not the case for other market participants and in other jurisdictions. In North Dakota, we recover approximately 88 percent of residential fixed costs through the fixed customer charge with only about 12 percent through the distribution charge. Similarly, interstate natural gas pipelines recover 100 percent of their fixed costs through fixed charges. By contrast, under our present gas rate design, the Company collects only 33

1		percent of its fixed costs through fixed charges in Minnesota. This results in an
2		intra-class subsidy.
3		
4	Q.	Why does the current customer charge result in an intra-class
5		SUBSIDY?
6	Α.	When the customer charge is set lower than the customer-related costs indicated
7		in the CCOSS, the remaining customer-related (fixed) costs are recovered
8		through the volumetric charge. Because these fixed costs are being recovered in
9		the volumetric charge, customers who are consuming gas at a greater than
10		average volume are paying for more fixed costs than they are causing.
11		Conversely, customers who consume lower than average levels of gas are not
12		paying for the fixed charges they are causing on the system.
13		
14	Q.	HOW DO YOU PROPOSE TO ADDRESS THE CURRENT DEFICIENCY IN THE RATE
15		STRUCTURE?
16	Α.	The Company proposes an increase in the Residential and Small Commercial
17		Firm Customer Charges because the Customer Charges in these classes are
18		below the appropriate cost-based levels. If the Commission were to adopt a
19		lower Customer Charge than the Company proposes, the Distribution Charge
20		would need to be higher than the Company's proposal to achieve the same level
21		of overall revenue increase.
22		
23		VII. RATE DESIGN PROPOSALS
24		
25		A. Residential Service
26	Q.	WHAT CHANGE IS XCEL ENERGY PROPOSING TO THE RESIDENTIAL CUSTOMER
27		CHARGE?

1	Α.	The Company is proposing to increase the monthly Residential Customer
2		Charge from \$9.00 to \$12.00. Following that change, the Distribution Charge
3		would increase from \$0.380239 per therm to \$0.472233 per therm to recover
4		the rest of the revenue requirement apportioned to the Residential class. I note
5		that \$0.034284 per therm of the proposed Distribution Charge increase is a
6		result of present rider rates being rolled into our proposed rates. This
7		combination of changes will be referred to herein as the "proposed rate
8		structure."
9		
10	Q.	WHAT LEVEL OF FIXED COSTS ARE CAUSED BY RESIDENTIAL CUSTOMERS BASED
11		ON THE COMPANY'S CCOSS?
12	Α.	The CCOSS provided by Company witness Barthol demonstrates that the fixed
13		costs of providing service to Residential customers is \$27.14. The fixed costs
14		are equivalent to the customer costs, which are those costs that vary based on
15		the number of customers.
16		
17	Q.	Why are you recommending a Residential Customer Charge that
18		FALLS WELL SHORT OF THE COSTS IMPOSED BY THESE CUSTOMERS?
19	Α.	I am recommending an increase from \$9.00 to \$12.00. Raising the Customer
20		Charge from \$9.00 to the cost-based level of \$27.15, while appropriate from a
21		cost-causation perspective, would impose a significant percentage increase in
22		the monthly bill for low-use customers. Therefore, my proposal strikes a
23		balance between reducing the inefficiencies in our current Residential pricing,
24		i.e., recovering an inadequate amount of fixed costs through the Customer

indicated Customer Charges are shown on line 8 of Schedule 3.

Charge, and moderating the billing impacts on low-use customers. The CCOSS

25

1	Q.	WHY IS IT IMPORTANT TO RECOVER MORE CUSTOMER COSTS IN THE CUSTOMER
2		CHARGE?
3	Α.	As previously stated, recovering customer costs in Customer Charges creates
4		more efficient pricing, promotes stability, and reduces intra-class subsidies.
5		
6		Customer costs are caused by all customers connected (or being connected) to
7		the Company's gas system (i.e., metering, service lines, meter reading, billing,
8		etc.). Thus, customer costs are not related to the amount of gas a customer uses.
9		Even if a customer uses no gas, the Company incurs essentially the same (or
10		"fixed") level of customer-related costs just to have the customer connected to
11		the gas distribution system. As I discuss in more detail below, it is important to
12		reflect these principles in rate design.
13		
14	Q.	How does the proposed rate structure create more efficient
15		PRICING?
16	Α.	When the Customer Charge does not recover an appropriate level of fixed
17		customer costs, the remaining fixed customer costs are recovered in the
18		volumetric Distribution Charge. As a result, even though all customers are
19		causing the fixed costs to be incurred, those who use more gas subsidize the
20		fixed costs of other customers. Recovering more customer costs in the
21		Customer Charge reduces the subsidization and thus adheres more closely to
22		the principle of cost causation, by allowing each customer to pay a more
23		equitable portion of the fixed costs incurred by the Company to serve them.
24		
25		For example, consider a high-usage and low-usage residential customer. Each
26		customer imposes \$326 in fixed costs on the system each year. Under current
27		rates, a customer pays \$108 in customer charges towards these fixed costs. The

volumetric charge is calculated such that the average customer will contribute the rest of the fixed cost through the volumetric charge. Thus, an average customer will pay for the fixed costs they are causing on the system. However, a higher-than-average user will pay for more than the fixed costs that they cause, subsidizing lower than average users who pay less than the fixed costs that they cause. Table 3 below illustrates the issue.

Table 3
Intra-class Subsidization of Fixed Cost Recovery

	Average User	Low User	High User
Annual Fixed Costs	\$326	\$326	\$326
Customer Charge per Month	\$9.00	\$9.00	\$9.00
Distribution Charge per Therm	\$0.255869	\$0.255869	\$0.255869
Annual Usage Therms	852	480	1,440
Annual Fixed Charges	\$108	\$108	\$108
Annual Variable Charges	\$218	\$123	\$368
Total Fixed Costs Recovered	\$326	\$231	\$476
Recovery More or (Less) than Fixed Costs	\$0	(\$95)	\$150

As shown in the table above, a customer charge that does not properly recover the customer cost causes an intra-class subsidy. Importantly, that intra-class subsidy penalizes customers who consume more gas than average, such as customers who have a larger household, live in older housing stock, rely on older appliances, or who have not been able to invest in conservation.

Q. SHOULD THE PROPOSED CUSTOMER CHARGE BE VIEWED IN A BROADER HISTORICAL CONTEXT?

1	A.	Yes. It has been 15 years since the Company last increased the Residential
2		customer charge. ³ A customer charge of \$9.00 that went into effect in May 2011
3		would be equivalent to \$12.90 due to inflation, as of August 2025. ⁴ An increase
4		consistent with this level of inflation is needed just to ensure that the
5		relationship between fixed and volumetric cost recovery is maintained.

7 O. DOES THE PROPOSED RATE STRUCTURE PROMOTE STABILITY?

8 Yes. By moving the recovery of more fixed costs to the fixed charge, the 9 proposed rate structure creates more stable bills and cost recovery. A lower 10 percentage of the customer's bill would be affected by variability in weather 11 compared to the current structure. This will help customers avoid unexpectedly 12 high monthly bills caused by weather.

13

14

WHAT IS THE BILL IMPACT OF THIS PROPOSAL FOR THE RESIDENTIAL CLASS? Q.

15 The average Residential customer will experience an 8.7 percent increase in their 16 bill because that is the revenue apportionment proposed above. Once the 17 customer charge, volumetric rates are calculated such that the average customer 18 will pay the apportioned revenue percentage. Customers at varying usage rates 19 will see different impacts from changes to the customer charge. A comparison 20 of bills for various usage levels under present and proposed rates is shown on Exhibit___(MMT-1), Schedule 8.

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21

23 ARE THESE IMPACTS REASONABLE?

³ In the Matter of the Application of Northern States Power, A Minnesota Corporation, for Authority to Increase Rates for Natural Gase Service in Minnesota, Docket No. G002/GR-09-1153, ORDER (December 6, 2010)

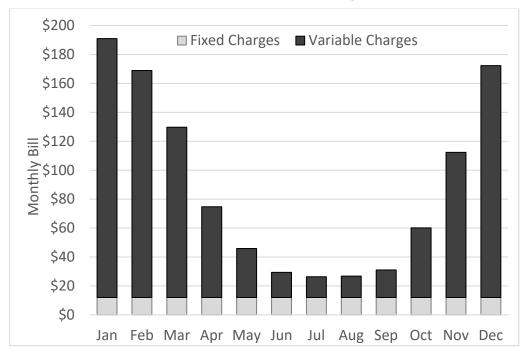
⁴ According to the Bureau of Labor Statistics, \$9.00 in May 2011 was worth \$12.90 in August 2025. https://www.bls.gov/data/inflation_calculator.htm

Yes. As noted above, an increase in the Residential Customer Charge would result in a reduction to the existing subsidy currently provided by high-volume to low-volume Residential users. The modest reduction of this subsidy should not be construed as a burden. It would be more accurate to conclude that high-volume customers are currently burdened because they pay more than their cost of service. Therefore, failing to address this problem would continue to impose an unreasonable burden on high-volume customers. It is appropriate for low-volume users to pay lower bills to the extent their lower usage results in a lower cost of service; but it is not appropriate for low-volume customers to benefit from a subsidy provided by higher-volume customers in the same class.

- 12 Q. DO THE PROPOSED CUSTOMER CHARGES CONTINUE TO PROVIDE A
 13 CONSERVATIVE INCENTIVE FOR CUSTOMERS?
 - Yes. More appropriate cost-based rates should lead to more informed decision making regarding natural gas usage. By including some fixed customer-related costs in the energy charge, the Company's rate design preserves a conservation incentive by having an energy charge that exceeds variable costs. At the same time, moving the fixed customer charge closer to cost-based pricing improves customer equity by better aligning cost and revenue responsibility. Customer equity is important in cases where a customer's higher than average use is driven by a high number of household members. Since wholesale gas costs are approximately 50 percent of customers' bills, customers who conserve natural gas usage will continue to be rewarded with lower bills. When including gas costs, after moving some costs into the Customer Charge, the Company's Residential rates will still collect over 85 percent of revenues based on annual usage, and over 90 percent in the winter months. Figure 1 below shows the

fixed and variable charges for an average Residential customer under our proposed rates.

Figure 1
Average Monthly Residential Bill
Fixed and Variable Charges



The figure above illustrates that our proposed rates provide incentives for customers to conserve their usage, as the vast majority of their bills are driven by variable charges. Rates that better reflect cost should encourage conservation. Conservation should not be used as a basis for rejecting rates that better reflect cost or to design rates that are not efficient.

- Q. WHAT ARE THE RESIDENTIAL CUSTOMER CHARGES IN THE COMPANY'S OTHER JURISDICTIONS?
- 17 A. The Residential Customer Charge in North Dakota is \$22.25 per month with a 18 small volumetric Distribution Charge of \$0.074 per therm. Xcel Energy's

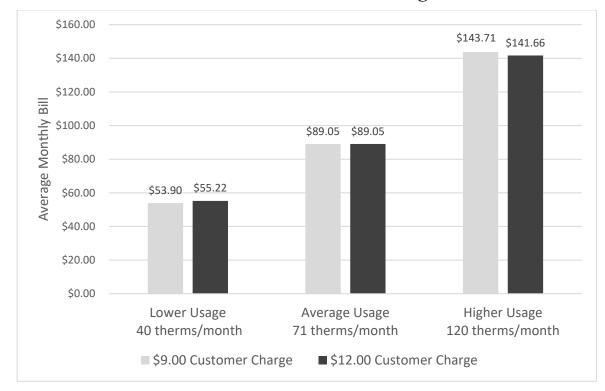
1		natural gas utilities in Wisconsin, Michigan, and Colorado have a \$15.00 per
2		month, \$12.00 per month, and \$11.00 Residential Customer Charge,
3		respectively
4		
5	Q.	How does the Company address concerns regarding the impact of
6		INCREASED CUSTOMER CHARGES ON CUSTOMERS WITH LOW INCOME?
7	Α.	The Company offers a natural Gas Affordability Program, which targets
8		customers with low income who may have difficulties paying their gas utility
9		bill. Company witness Diedra K. Howard discusses these programs in more
10		detail.
11		
12	Q.	DO LOW-INCOME CUSTOMERS HAVE USAGE PATTERNS THAT ARE DIFFERENT
13		FROM THE AVERAGE RESIDENTIAL CUSTOMER?
14	Α.	No, low-income usage patterns mirror the average Residential usage pattern.
15		Some low-income customers have low energy usage, but other low-income
16		customers have very high energy use. The absence of a relationship between
17		usage and income is shown on the graph included as Exhibit_(MMT-1),
18		Schedule 11. This graph shows the 2024 annual usage against the percentage of
19		bills for all Low-Income Home Energy Assistance Program (LIHEAP)
20		customers and all non-LIHEAP Minnesota residential customers. There is not
21		a substantial difference between the shapes of the two curves. The graph shows
22		that low-income customers use gas in much the same pattern that all residential
23		customers use gas. Some low-income customers use less gas than average, while
24		others use more gas than average. As I have stated above, those customers
25		(including low-income customers) that use more gas than average are
26		subsidizing low use customers, and an increase in the Residential Customer

Charge would result in a reduction to this existing subsidy.

- 1 Q. How does an increase to the customer charge impact low-income 2 customers?
 - Figure 2 below shows that, at the Company's proposed Residential revenue apportionment, a customer using 40 therms per month on average would experience \$1.32 more per month under a \$12.00 customer charge compared to a \$9.00 customer charge. Conversely, a higher user (120 therms per month on average) would see a reduction in their average bill of \$2.05. As noted above, there are low-income customers who use less than average natural gas, and also low-income customers who use more than average natural gas. Lower users would see a modest increase, and higher users would see a modest decrease in their bills, compared to no change in the customer charge.

Α.

Figure 2
Average Residential Bill Comparison
\$9.00 and \$12.00 Customer Charge



B. Commercial Firm Service

- 2 Q. What changes are you proposing to the Firm Commercial rates?
- 3 A. The Company is proposing to increase the Small Commercial Customer Charge
- from \$20.00 to \$30.00 and no change to the Large Commercial Customer
- 5 Charge of \$50.00. The increase in the Small Commercial Customer Charge is
- 6 justified by the Company's CCOSS. To achieve overall rate apportionment
- 7 goals, the Company is proposing to increase the per-therm Distribution Charges
- 8 from \$0.311426 to \$0.401388 for Small Commercial service and from \$0.272547
- 9 to \$0.344499 for Large Commercial service.

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C. Demand Billed Service

- 12 Q. What Changes are you proposing for Demand Billed Rates?
- 13 A. The Company is not proposing changes to the Small and Large Demand Billed
- 14 Customer Charges based on the cost levels indicated by the CCOSS. The
- Distribution Charges for the Demand Billed Services were set at the
- Distribution Charge for the Medium Interruptible customers. This general
- 17 relationship has been in effect since the Company's 1992 rate case (Docket No.
- 18 G002/GR-92-1186) and is reasonable. The rates on the two tariffs should be
- 19 comparable except for the Demand Charge, which reflects the firm nature of
- the Demand Billed Service.

21

22

D. Interruptible Sales Service

- 23 Q. How does the system benefit from Interruptible customers?
- 24 A. The willingness of Interruptible customers to trade firm service for a discount
- 25 enhances system reliability and flexibility. In particular, since an Interruptible
- 26 customer has agreed to not receive service during periods of resource
- 27 constraints or unpredicted resource shortage or high price events, this results in

greater reliability because during times when the supply or capacity of the gas
system is at risk, the gas that would have been needed to serve Interruptible
customers can be used to serve other customers. This also can potentially
reduce costs for all customers since depending on when a curtailment is called,
the Company can plan for less firm gas than would have otherwise been
required.

- Q. What are the goals of the Company's proposed Interruptible gas
 RATES?
- 10 A. The primary goals are as follows:
 - First, Interruptible rates should reflect the anticipated value of service to the customer. This goal was accomplished by pricing Interruptible service at a rate competitive with the cost of alternate fuels available to these customers. The upper limit used for the Interruptible commodity pricing was the price of No. 2 fuel oil since most of these customers use No. 2 fuel oil as their primary alternate fuel.
 - Second, Interruptible prices should reflect a reasonable discount from
 Firm prices because Interruptible service is of lower value. If No. 2 fuel
 oil is priced higher than Firm gas service, then the corresponding Firm
 rates, less a reasonable discount, become the upper limits for
 Interruptible rates.
 - Third, Interruptible customers should not be subsidized by other classes of service. Therefore, Interruptible rates should recover at least the Company's BCOG plus variable operating and maintenance expenses.

Q. How were the Interruptible rates developed based on these goals?

1	Α.	First, interruptible service should be less expensive than alternative sources of
2		fuel that customers could use instead of gas. If it is not, customers will choose
3		the alternative sources of fuel and our other customers will lose the benefit
4		provided by interruptible customers. Looking at the alternate fuel prices of No.
5		2 wholesale fuel oil of \$1.76652 per therm, ⁵ it far exceeds the Interruptible
6		commodity pricing.

Second, in order to reflect the reduced value of Interruptible service as compared to Firm service, the Interruptible rate should be lower than Firm rates. The Company proposes to maintain the same ratio between Firm and Interruptible rates, as shown below in Table 4.

Next, the Company looked at the CCOSS results. The current Customer Charges for the Small and Medium Interruptible service classes exceed the CCOSS average of customer-related expenses. Consequently, the Company proposes no increase in these charges.

The proposed Distribution Charge established for the Medium Interruptible service was designed to generate an 8.5 percent overall rate increase for the class. The proposed Distribution Charge established for the Large Interruptible service was designed to reflect a lower cost of service than the Medium Interruptible service class and to generate an overall increase of 6.4 percent for the class. The Distribution Charge for the Small Interruptible service Tier I class was increased from \$0.220365 to \$0.284904 per therm. These increases were designed to maintain a reasonable discount, similar to that reflected in present

.

⁵ Energy Information Administration/ Short Term Energy and Winter Fuels Outlook, Table 2. U.S. Energy Nominal Prices (September 2025)

- 1 rates, from the corresponding Firm service options available to these customers.
- 2 The various components of the Interruptible rates are identified in Schedule 5,
- 3 page 4.

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Table 4 below illustrates the current and proposed level of discount between Firm and Interruptible Sales Service.

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Table 4 Average Bill Comparison Commercial Firm and Interruptible Classes

Class	Monthly Therm Use	Avg Bill – Present Rates	Avg Bill – Proposed Rates
Large Commercial Firm	1,303	\$1,223	\$1,284
Small Interruptible	1,303	\$1,026	\$1,087
% Discount		-16%	-15%
Small Commercial Demand Billed	7,924	\$6,934	\$7,405
Small Interruptible	7,924	\$5,476	\$5,849
% Discount		-21%	-21%
Large Commercial Demand Billed	17,776	\$15,051	\$16,108
Medium Interruptible	17,776	\$10,838	\$11,798
% Discount		-28%	-27%

1112

As shown in Table 4, Interruptible discounts are being maintained near the same level as current rates.

14

- Q. WILL THE PROPOSED INTERRUPTIBLE RATES RECOVER MORE THAN THE COSTS
 IMPOSED BY THESE CLASSES?
- 17 A. Yes. The proposed Interruptible rates would recover above the CCOSS revenue 18 requirement for these customers, thereby reducing the residual costs that must 19 be recovered from firm customers.

1	Q.	HAS THE COMPANY	RETAINED	THE	FLEXIBLE	PRICING	PROVISIONS	FOR	ITS
2		INTERRUPTIBLE SALE	S TARIFFS?						

A. Yes. The Company proposes to retain the rate flexibility authorized in the 1985 general gas rate case (Docket No. G002/GR-85-108) for the Flexible Distribution Charge ranges in the Interruptible service tariff. As stated in the tariff, the Flexible Distribution Charge applies for Customers, who normally would be served on the fixed rate but are placed on the flexible rate because: (1) the customer requests flexible rate service, (2) for pricing reasons, the customer uses a non-gas alternate energy supply/service from a supplier not regulated by the Commission, or (3) the customer uses gas from a supplier not regulated by the Commission.

For those customers on the Flexible Distribution Charge, the midpoint of the proposed range is the applicable fixed rate explained above. The floor has been set at the variable Operation and Maintenance (O&M) cost (which is the incremental cost of providing service), as required by Minn. Stat. § 216B.163, subd. 4(1). The ceiling has been designed so that the rate may be increased by as much as it may be discounted from the fixed rate.

E. Firm and Interruptible Transportation Service

- 21 Q. What changes are you proposing for the Transportation rates?
- 22 A. Transportation rates are the same as the corresponding Sales rates, except that
 23 Transportation customers pay a slightly higher Customer Charge to reflect the
 24 additional customer-related cost of serving such customers. This approach
 25 ensures that the Company will be indifferent to the customer's choice of gas
 26 procurement (*i.e.*, Company sales gas or gas purchased from a third-party
 27 marketer). Therefore, my explanation of the proposed Customer Charges,

1		Distribution Charges, and Distribution Demand charges for Sales customers
2		also holds true for the corresponding Transportation rates.
3		
4	Q.	Does the CCOSS support linking Transportation rates to the
5		CORRESPONDING SALES SERVICE?
6	Α.	Yes. In general, customers eligible for these rate options are similarly sized. The
7		Company provided the Transportation specific category in the CCOSS in
8		response to a compliance requirement. Since there are only three to fifteen
9		customers in these classes, annual results are highly dependent on the specific
10		customers currently in the class, and the results could be very different if one
11		or more customers switched rate classes. Therefore, the Company's approach
12		to link the Transportation rates to the corresponding Sales rate should be
13		continued.
14		
15	Q.	Why is the overall increase in Transportation rates higher than
16		INTERRUPTIBLE RATES?
17	Α.	The Transportation class increase is higher than the Interruptible because the
18		Transportation customers purchase their gas supply from a third party; thus,
19		their Xcel Energy bill only consists of non-gas components. This causes their
20		increase to appear higher compared to the average sales service increases. The
21		increase in the non-gas components of the bill is equivalent.
22		
23		VIII. DECOUPLING OVERVIEW
24		
25	Q.	Is the Company proposing to continue the decoupling rate
26		ADJUSTMENT MECHANISM?

A. Yes. We are proposing to continue the decoupling rate adjustment mechanism approved in our last two rate cases. 6 Continuing this mechanism is an important tool to protect customers and the Company from differences between actual sales and the amounts used to establish base rates in this case

5

- 6 Q. WHAT IS DECOUPLING?
- 7 Decoupling is a rate adjustment mechanism "designed to separate a utility's 8 revenue from changes in energy sales. The purpose of decoupling is to reduce a utility's disincentive to promote energy efficiency." Typically, decoupling 9 10 mechanisms accomplish this by means of an adjustment (either a credit or a 11 surcharge) that trues up the revenues received by a utility to the authorized test 12 year revenue requirement set by a commission in a rate case. In general, 13 decoupling is used as a mechanism to better align the utility's interests with 14 public policy goals (such as the promotion of energy efficiency), thus making it 15 easier to achieve those goals. It can also ensure the utility is neither rewarded 16 nor penalized for factors that are outside its control, such as unusual weather.

17

- 18 Q. WHAT PUBLIC POLICY SUPPORTS DECOUPLING?
- 19 A. When natural gas sales increase, so do potential revenues. This may create an incentive for a gas utility to maximize sales. By removing the link between energy sales and utility revenue, a decoupling mechanism can enable utilities to promote energy efficiency "systematically and aggressively" without concern about the impact of reduced sales on their ability to recover fixed costs.

⁶ In the Matter of the Application of Northern States Power Company d/b/a Xcel Energy for Authority to Increase Natural Gas Rates in Minnesota, Docket No. G002/GR-21-678 and Docket No. G002/MR-21-679 ORDER ACCEPTING AGREEMENT SETTING RATES AND UPDATING BASE COST OF GAS (April 13, 2023)

⁷ Minn. Stat. § 216B.2412, subd 1.

⁸ Minn. Stat. § 216B.2401

As Minnesota's policy framework moves beyond simply energy efficiency and
works specifically to reduce the use of geologically-sourced gas9 - increasingly,
through the activity of the gas utilities themselves - decoupling is an important
tool that allows utilities to support such efforts with less concern about the
impact on revenue. At the same time, by supporting the recovery of fixed costs,
decoupling helps to ensure that critical energy infrastructure is available at times
of peak need, even if overall throughput declines.

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9 Q. How have the Company's conservation/ECO outcomes changed under decoupling?

11 A. Table 5 below shows the first-year energy savings of annual achievements 12 through the Company's portfolio of ECO programs for the past two years 13 (2023-2024) and the three years (2020-2022) prior to the Company's 14 implementation of the RDM. These achievements are presented by the 15 respective customer classes subject to the RDM based on estimates of the 16 achievement by the Residential and Business portfolio of ECO programs.

_

 $^{^{9}}$ Minn. Stat. \S 216B.2427, subd. 2(10)

Table 5
ECO First-Year Energy Achievements by Rate Class

	Year	Residential Billing Dth	Business Billing Dth
	2020	370,366	498,233
Pre-RDM	2021	511,348	658,882
T IC-KISWI	2022	476,808	443,696
	Average	452,841	533,604
	2023	588,096	419,826
Post-RDM	2024	501,135	828,861
	Average	544,615	624,344

4

Q. WHAT IS THE STATUS OF THE COMPANY'S RDM?

A. The Commission approved our decoupling mechanism as part of the settlement resolving our 2021 rate case and extended the decoupling mechanism as part of the settlement resolving our 2023 rate case. Consistent with the Commission's prior decision, the existing program will be in effect until final rates are implemented in this rate case and we propose to continue it further.

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Q. How is the revenue decoupling mechanism currently designed?

- 12 A. The revenue decoupling mechanism includes the following design parameters:
- 1) The RDM will include all customer classes with more than 50 customers;
- 14 2) The RDM has a 0.9 percent conservation requirement; and
- 15 3) The RDM includes customer charge revenue and distribution revenue in the RDM baseline and in the surcharge cap.
 - 4) The RDM compares actual weather normalized sales and customer counts to the rates set in our prior rate case, and trues-up differences on an annual basis.

1		The RDM measures sales revenues against a baseline revenue-per-customer by
2		class, with over- or under recoveries calculated and deferred each month. The
3		annual result is credited or charged to customers through a dollar per therm
4		factor applied to each individual customer's usage each month for twelve
5		months as a separate line item on their bill.
6		
7	Q.	WHAT CLASSES DOES THE COMPANY DECOUPLE?
8	Α.	The Company applies a full decoupling mechanism for its Residential, Small
9		and Large Commercial, Large Demand and Small and Medium Interruptible
10		classes.
11		
12	Q.	HOW DID THE COMPANY EVALUATE WHICH CLASSES TO INCLUDE IN THE RDM?
13	Α.	When the RDM was originally designed, the Company reviewed all classes for
14		amount of fixed revenue collected volumetrically, and customer class size.
15		Based on this analysis, the Company originally proposed to exclude classes that
16		had fewer than 50 customers, customers that were on flexible rates, the
17		Demand, Interruptible, and Transportation classes.
18		
19		In a settlement in that case, approved by the Commission, the Company agreed
20		to include all customer classes with more than 50 customers. ¹⁰ A settlement
21		approved in our subsequent rate case maintained this methodology. 11 As I
22		discuss below, we propose to adjust the decoupled classes in this rate case.

¹⁰ In the Matter of the Application of Northern States Power Company d/b/a Xcel Energy for Authority to Increase Natural Gas Rates for Minnesota, Docket No. G-002/GR-21-678, Order Accepting Agreement Setting Rates and Updating Base Cost of Gas (Apr. 13, 2023); *Id.* Settlement Agreement at 12 (Oct. 4, 2022).

¹¹ In the Matter of the Application of Northern States Power Company, d/b/a Xcel Energy, for Authority to Increase Rates for Natural Gas Service in Minnesota, Docket No. G-002/GR-23-413, Order Accepting and Adopting Agreement Setting Rates (Mar. 5, 2025).

1	O.	PLEASE EXPLAIN THE COMPANY'S RDM PROPOSAL IN THIS RATE CASE.

A. The Company is proposing an extension of its current RDM for RDM measurements to occur through the effective date of final rates in the next natural gas rate case. The RDM will continue measuring sales revenues against a baseline revenue-per-customer by class, with over- or under-recoveries credited or charged to customers through a dollar per therm factor applied to individual customer's monthly usage as a separate line item on their bill. For the proposed RDM tariff, see Gas Rate Book Section No. 5 Sheet No. 71 included in Volume 2D of the rate case application. The Company's RDM model is attached as Exhibit (MMT-1), Schedule 12.

The Company is proposing to include, in addition to the classes that are already decoupled, the Small Demand-Billed, Large Interruptible, Firm Transport, and Interruptible Transport customer classes. These classes have less than 50 customers each and are currently not included in our RDM. Customers on negotiated or flexible rates are not currently included in the RDM, and as discussed below, would continue to be excluded.

- Q. How will the RDM apply to customer classes with less than 50 customers?
- A. The Company is proposing to include the customer classes with less than 50 customers within the six RDM groups we have today, based on their similar rate design and type of service. For instance, our current RDM includes the Large Demand Billed class, but excludes the Small Commercial Demand Billed class. These classes have the same Distribution Charge with slight differences in their respective Customer Charges. Therefore, it is reasonable to combine these classes into one RDM group. The Medium and Large Interruptible classes take

the same type of service with consistent rate structures and can be appropriately grouped in the RDM. And, as discussed earlier, the Company's goal is to remain indifferent to customers' choice regarding gas supplier. Including the Transportation customers in RDM groups with their sales service counterparts would maintain the same rates for customers whether they are on sales service or transportation service. Table 6 lists the classes and groups that the Company is proposing to include in the RDM.

Table 6 Decoupled Classes

Group	Rate Code	Classes
Residential	101	Residential
Small Commercial	102, 108	Small Commercial
Large Commercial	118, 125	Large Commercial
Demand	103, 104, 119	Small Demand Billed Large Demand-Billed Firm Transport
Small Interruptible	105, 111, 123, 130, 131	Small Interruptible
Medium/Large Interruptible	106, 107, 120, 123, 124, 132, 133	Medium Interruptible Large Interruptible Interruptible Transport

Q. WHY DOES THE COMPANY OMIT SOME CUSTOMERS FROM THE RDM?

The Company omits customers that are on negotiated or flexible rates. Minn. Stat. § 216B.163, subd. 4(1) states that flexible rates must at least recover the incremental cost to provide service. An RDM adjustment could cause a flexible rate to fall below incremental cost. Also, flexible rate customers have the capability to switch to alternate fuel supplies. Potential bill increases due to a decoupling surcharge could incent these customers to leave the system, leaving fewer sales over which to spread fixed costs. Therefore, we have excluded these customers from the RDM.

1	Q.	THE COMPANY'S	RDM	CURRENTLY	HAS	A	CAP	ON	SURCHARGES.	Is	THE
2		COMPANY DRODOS	INC TO) CONTINUE T	'LIIS C	ΔD	2				

A. Yes. The Company is proposing to continue the cap currently in place, which is a maximum single-year class surcharge of 10 percent of the base revenue authorized for the class. This cap level on decoupling surcharges has previously been approved by the Commission for Xcel Energy, ¹² CenterPoint Energy (CenterPoint), ¹³ Minnesota Energy Resources Corporation (MERC), ¹⁴ and Great Plains Natural Gas. ¹⁵

9

- 10 Q. Under the proposed RDM, can individual customers benefit from conservation?
- 12 Yes. If a customer reduces their usage in the near term, they will see immediate 13 bill reductions for all volumetric charges including natural gas charges. 14 Decoupling measures changes in revenues for the distribution component of 15 the bill, and a decoupling surcharge would impact the distribution charge portion of the bill only. However, a customer who conserves would see savings 16 17 on distribution charges, rider charges, and the largest component of their bill, 18 natural gas charges. These savings would likely exceed a decoupling surcharge 19 since it only impacts the distribution charge of the bill. An average residential

¹² In the Matter of the Application of Northern States Power Company d/b/a Xcel Energy for Authority to Increase Natural Gas Rates in Minnesota, Docket No. G002/GR-21-678, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 6 (April 13, 2023).

¹³ In the Matter of the Application by CenterPoint Energy Resources Corp. d/b/a CenterPoint energy Minnesota Gas for Authority to Increase Natural Gas Rates in Minnesota, Docket No. G008/GR-13-316, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 46-48 (June 9, 2014).

¹⁴ In the Matter of the Application of Minnesota Energy Resources Corporation for Authority to Increase Rates for Natural Gas Service in Minnesota, Docket No. G007,011/GR-10-977, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 13-14 (July 13, 2012).

¹⁵ In the Matter of the Petition by Great Plains Natural Gas Co., a Division of MDU Resources Group, Inc., for Authority to Increase Natural Gas Rates in Minnesota, Docket No. G004/GR-15-879, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 40-43 (September 6, 2016).

1		customer who reduces their usage by five percent would likely see a bill
2		reduction even while paying a decoupling surcharge at the proposed 10 percent
3		surcharge cap.
4		
5	Q.	PLEASE SUMMARIZE THE RDM.
6	Α.	The current RDM has been effective at reducing the disincentive for pursuing
7		increased energy conservation goals and achieving higher levels of gas savings.
8		Given the State's focus on conservation, as demonstrated in policies such as the
9		ECO Act, maintaining the RDM is important to continue achieving these goals.
10		The RDM will continue measuring sales revenues against a baseline revenue-
11		per-customer by class, with over- or under-recoveries credited or charged to
12		customers through a dollar per therm factor applied to individual customer's
13		monthly usage as a separate line item on their bill. For the proposed RDM tariff,
14		see Gas Rate Book Section No. 5 Sheet No. 71 included in Volume 2D of the
15		rate case application. The Company's RDM model is attached as Schedule 12.
16		
17		IX. OTHER TARIFF CHANGES
18		
19	Q.	WHAT OTHER TARIFF CHANGES DOES THE COMPANY PROPOSE?
20	Α.	Xcel Energy is proposing a few other changes to tariff sheets in its Minnesota
21		Gas Rate Book. Schedule 9 contains a list and a summary of the proposed tariff
22		changes. The proposed tariffs are included in redline and non-redline format in
23		the volume entitled "Proposed Tariffs" of our application. These changes are
24		discussed below.
25		
26	\circ	ARE ANY OTHER WITNESSES SPONSORING CHANGES IN THE TARIEF BOOK?

2		changes in the Gas Rate Book, including:
3		• Underground Gas and/or Electric Distribution Agreement-replace
4		specific clearance and safety requirements with references to the Xcel
5		Energy Installation Utility Standards manual. That way, the tariffs do not
6		need to be updated every time we edit a clearance or safety requirement.
7		• Excess Footage Charge: Increasing from \$9.10 per foot to \$13.90 per
8		foot.
9		• Winter Construction Charges:
10		a) Frost Burner: Increasing from \$640 to \$870.
11		b) Service Extensions: Increasing from \$8.90 per foot to \$18.00 per
12		foot.
13		
14		For convenience purposes, all proposed tariff changes have been included
15		together in the volume entitled "Proposed Tariffs" of our application.
16		
17		X. COMPLIANCE REQUIREMENTS
18		
19	Q.	PLEASE ADDRESS ANY COMPLIANCE REQUIREMENTS FROM ORDERS RELATED
20		TO RATE DESIGN.
21	Α.	I will address the compliance issues related to the following two items:
22		• Identify CIP costs not recovered from Flexible rates due to rate
23		discounting, and
24		• Prepare a separate End User Allocation Service Cost (EUAS) Study.

A. Yes. Company witnesses Gerold Traut and Christopher Barthol are addressing

2		DISCOUNTING? ¹⁶
3	Α.	No. Only customers with an exemption granted by the Commissioner of the
4		Department of Commerce are not required to contribute toward recovery of
5		CIP costs.
6		
7	Q.	DID THE COMPANY PREPARE A SEPARATE EUAS STUDY AS REQUIRED BY
8		DOCKET NO. G002/GR-06-1429?
9	Α.	Yes. The cost study is attached as Exhibit(MMT-1), Schedule 10. The
10		resulting study demonstrates the current charge could be slightly reduced,
11		however, since the cost study is very sensitive to the number of customers
12		currently taking EUAS service, I recommend no change to the monthly rate of
13		\$75 at this time.
14		
1415		XI. CONCLUSION
		XI. CONCLUSION
15	Q.	XI. CONCLUSION COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR
15 16	Q.	
15 16 17	Q.	COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR
15 16 17 18		COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR TESTIMONY?
15 16 17 18 19		COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR TESTIMONY? Yes. My testimony included the following proposals:
15 16 17 18 19 20		COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR TESTIMONY? Yes. My testimony included the following proposals: • The Company has proposed a reasonable apportionment of revenue
15 16 17 18 19 20 21		COULD YOU SUMMARIZE THE PROPOSALS AND RECOMMENDATIONS OF YOUR TESTIMONY? Yes. My testimony included the following proposals: • The Company has proposed a reasonable apportionment of revenue requirements by customer class that provides a moderate movement
15 16 17 18 19 20 21 22		Could you summarize the proposals and recommendations of your testimony? Yes. My testimony included the following proposals: • The Company has proposed a reasonable apportionment of revenue requirements by customer class that provides a moderate movement toward the cost of service.

Q. Are there CIP costs that are not being recovered due to rate

1

¹⁶ In the Matter of the Application of Northern States Power Company's Gas Utility to Change its Schedule of Gas Rates for Retail Customers Within the State of Minnesota, Docket No. G002/GR-97-1606, ORDER (February 19, 1999)

The Company has also proposed to continue the approved decoupling mechanism and include all customers not on flexible or negotiated rates.
 The Company has also proposed changes to its tariffs to reflect the proposals discussed in testimony.
 Finally, my testimony discusses how the Company has fulfilled the requirements of two Commission-ordered compliance items.
 Q. Does This Conclude Your Pre-Filed Direct Testimony?

9

Α.

Yes, it does.

Statement of Qualifications

Michelle M. Terwilliger

OVERVIEW

My qualifications include more than 12 years of experience with Xcel Energy and its predecessors in the areas of rate analysis, pricing and rate design. My current responsibilities at Xcel Energy include Rate Design work conducted in support of the Company's rate cases and providing rate analysis and pricing support and other related analyses for the utility operating subsidiaries of Xcel Energy. I have served as a rate case witness in Iowa.

PROFESSIONAL EXPERIENCE

Pricing Consultant, Xcel Energy, NSPM	2022 – Present
Principal Rate Analyst; Xcel Energy, NSPM	2013 - 2022
Accountant; Christ Presbyterian Church	2012 - 2013
Program Coordinator; Prayer Ventures	2010 - 2012
Assistant Manager; Pathway Books/Music	2007 - 2010
Owner, Le Nantais French Delicatessen	1988 – 1993
Manager of Customer Accounting; Midwest Energy, Inc.	1986 – 1988
Rate Analyst; North Central Public Service Co.	1985 – 1986
Staff Accountant; North Central Public Service Co.	1983 – 1985

EDUCATIONAL BACKGROUND

University of Minnesota; BS Accounting 1983

Northern States Power Company State of Minnesota Gas Jursidiction **TEST YEAR RIDER ROLL INS**

Test Year Ending December 31, 2026

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CIP Rider

Line		
1	Test Year Sales (therms)	1,227,923,665
2	Test Year CIP Exempt Sales (therms)	446,334,815
3	Test Year CIP-related Sales (therms)	781,588,850
4	CCRC used to determine CIP Base Revenues	\$0.037502
5	Test Year CIP Base Revenue in Present Revenues (Line 3 x Line 4)	\$29,311,145
6	Test Year CIP Expense	\$37,129,290
7	Test Year CIP Adjustment (Line 6 - line 5)	\$7,818,145
8	Per Therm Adjustment to adjust CIP Revenues (Line 7 / Line 3)	\$0.010003
9	Per Therm CCRC in Test Year Base Rates (Line 6 / Line 3)	\$0.047505

GUIC Rider

	<u>GUIC</u>	<u>GUIC</u>		
	<u>Allocator</u>	<u>Allocation</u>	<u>Therms</u>	<u>Factors</u>
Res	64.1619%	\$9,572,687	394,247,949	0.024281
Comm Firm	24.1303%	\$3,600,140	240,161,286	0.014991
Dmd Billed	6.6396%	\$990,601	492,477,225	0.002011
Interruptible	5.0682%	\$756,154	101,037,206	0.007484
Test Year GUIC Ex	nense	\$14,919,581	1.227.923.665	

Northern States Power Company State of Minnesota Gas Jursidiction COMPARISON OF CURRENT REVENUES AND COSTS BY CLASS (\$000)

Test Year Ending December 31, 2026

Equ	ual Return vs Present	1=2+15	2=3+11	3=4+5+8	4	5=6+7	6	7	8=9+10	11=12>>14	15=16+20	16=17>>19	20=21+22	21	22
	Operating Revenue Requirement	<u>Minn</u>	<u>Retail</u>	<u>Firm</u>	Res	C&I Tot	<u>Sm C&I</u>	Lg C&I	Dmd Tot	Inter Tot	Non-Retail	Tran Tot	Gener Tot	Sys Gen	<u>Tran Gen</u>
1	Return On Rate Base	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%	7.79%
2	Equalized Total Retail Rev	838,205	803,215	762,521	503,676	235,864	72,421	163,443	22,982	40,694	34,990	7,753	27,237	2,745	24,492
3	Present Total Retail Revenue	774,803	<u>754,958</u>	<u>708,990</u>	452,991	231,632	<u>59,599</u>	172,032	24,367	<u>45,968</u>	19,846	8,010	<u>11,835</u>	<u>2,506</u>	9,329
4	Revenue Deficiency	63,401	48,257	53,532	50,685	4,232	12,822	-8,589	-1,386	-5,274	15,144	-257	15,402	239	15,163
5	Deficiency / Pres Total Retail Rev	8.18%	6.39%	7.55%	11.19%	1.83%	21.51%	-4.99%	-5.69%	-11.47%	76.31%	-3.21%	130.13%	9.54%	162.53%
	Internal Retail Revenue Reqt														
6	Customer Retail Revenue Requirement	167,752	167,389	166,921	150,124	16,546	10,243	6,303	250	468	363	66	296	281	16
7	Average Monthly Customers	497,841	497,807	497,580	460,713	<u>36,724</u>	25,001	<u>11,724</u>	142	<u>227</u>	<u>34</u>	25	0	5	10
<u>/</u> Q	Revenue Requirement \$ / Mo / Cust	28.08	28.02	27.96	27.15	37.55	34.14	44.80	146.91	171.62	888.60	$\frac{25}{220.29}$	2,745.03	4,681.41	324.55
0	Revenue Requirement \$ / 1vio / Cust	20.00	20.02	27.90	27.13	37.33	34.14	44.60	140.91	1/1.02	000.00	220.29	2,743.03	4,001.41	324.33
9	Capacity Retail Revenue Requirement	193,882	165,002	161,071	93,567	62,288	24,792	37,495	5,216	3,932	28,880	5,534	23,346	625	22,721
<u>10</u>	Annual Dkt Sales	<u>122,792,367</u>	73,988,066	66,316,264	<u>39,424,795</u>	<u>24,016,129</u>	<u>5,679,769</u>	<u>18,336,360</u>	<u>2,875,341</u>	<u>7,671,802</u>	48,804,300	10,190,089	<u>38,614,211</u>	<u>363,155</u>	<u>38,251,057</u>
11	Revenue Requirement \$ / Dkt	1.58	2.23	2.43	2.37	2.59	4.37	2.04	1.81	0.51	0.59	0.54	0.60	1.72	0.59
	Capacity - Sub Classification														
12	Capacity - Base Revenue Requirement	43,935	29,791	26,656	15,814	9,680	2,282	7,398	1,162	3,135	14,144	4,101	10,043	153	9,889
13	Capacity - Seasonal Revenue Requirement	91,238	82,937	82,937	47,865	32,719	14,763	17,955	2,352	0	8,301	625	7,676	388	7,289
14	Peak Shaving Revenue Requirement	58,710	52,275	51,478	29,887	19,889	7,747	12,142	1,702	796	6,435	808	5,627	84	5,543
15	Base Rev Requirement \$ / Dkt	0.36	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.29	0.40	0.26	0.42	0.26
16	Seasonal Rev Requirement \$ / Dkt	0.74	1.12	1.25	1.21	1.36	2.60	0.98	0.82	0.00	0.17	0.06	0.20	1.07	0.19
17	Peak Shave Rev Requirement \$ / Dkt	0.48	0.71	0.78	0.76	0.83	1.36	0.66	0.59	0.10	0.13	0.08	0.15	0.23	0.14
4.0	E D. ID D	40.407	27.407	22.572	40.420	10.010	2.020	0.474	1 420	2.024	4.000	2.152	4.007	170	4 755
18	Energy Retail Revenue Requirement	40,486	36,406	32,572	19,130	12,012	2,838	9,174	1,430	3,834	4,080	2,153	1,927	172	1,755
19	Revenue Requirement \$ / Dkt	0.33	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.08	0.21	0.05	0.47	0.05
20	Total Internal Retail Revenue Requirement	402,120	368,797	360,564	262,821	90,846	37,874	52,972	6,897	8,233	33,323	7,753	25,570	1,078	24,492
21	Revenue Requirement \$ / Dkt	3.27	4.98	5.44	6.67	3.78	6.67	2.89	2.40	1.07	0.68	0.76	0.66	2.97	0.64
22	Revenue Requirement \$ / Mo / Cust	67.31	61.74	60.39	47.54	206.14	126.24	376.53	4,047.52	3,018.13	81,673.32	25,842.75	236,758.23	17,971.65	510,241.45
	External Retail Revenue Reqt														
23	Capacity Revenue Requirement	107,266	107,129	107,129	64,439	38,797	9,390	29,407	3,893	0	136	0	136	136	0
24	Energy Revenue Requirement	<u>327,688</u>	<u>326,158</u>	<u>293,698</u>	<u>175,370</u>	106,137	<u>25,101</u>	81,036	<u>12,191</u>	<u>32,460</u>	<u>1,530</u>	Ö	<u>1,530</u>	<u>1,530</u>	0
25	Total External Revenue Requirement	434,954	433,287	400,827	239,809	144,934	34,491	110,443	16,084	32,460	1,667	0	1,667	1,667	0
23	Total External Revenue Requirement	434,234	433,207	400,027	237,007	144,234	54,471	110,++3	10,004	<i>52</i> ,400	1,007		1,007	1,007	
26	Cap Revenue Requirement \$ / Dkt	0.87	1.45	1.62	1.63	1.62	1.65	1.60	1.35	0.00	0.00	0.00	0.00	0.38	0.00
<u>27</u>	Ener Revenue Requirement \$ / Dkt	<u>2.67</u>	<u>4.41</u>	<u>4.43</u>	4.45	<u>4.42</u>	<u>4.42</u>	<u>4.42</u>	<u>4.24</u>	<u>4.23</u>	0.03	0.00	<u>0.04</u>	<u>4.21</u>	<u>0.00</u>
28	Tot Revenue Requirement \$ / Dkt	3.54	5.86	6.04	6.08	6.03	6.07	6.02	5.59	4.23	0.03	0.00	0.04	4.59	0.00
	Total Retail Revenue Reqt														
29	Customer Revenue Requirement	167,752	167,389	166,921	150,124	16,546	10,243	6,303	250	468	363	66	296	281	16
30	Capacity Revenue Requirement	301,148	272,132	268,200	158,005	101,085	34,183	66,902	9,110	3,932	29,017	5,534	23,483	762	22,721
31	Energy Revenue Requirement	<u>368,174</u>	<u>362,563</u>	<u>326,270</u>	<u>194,500</u>	<u>118,149</u>	<u>27,939</u>	90,210	<u>13,621</u>	<u>36,293</u>	<u>5,610</u>	<u>2,153</u>	<u>3,457</u>	<u>1,702</u>	<u>1,755</u>
32	Total Revenue Requirement	837,074	802,084	761 , 391	502,629	235,780	72,365	163,415	22,981	40,693	34 , 990	7,753	27,237	2,745	24,492
33	Customer Revenue Reqt \$ / Dkt	1.37	2.26	2.52	3.81	0.69	1.80	0.34	0.09	0.06	0.01	0.01	0.01	0.77	0.00
34	Demand Revenue Reqt \$ / Dkt	2.45	3.68	4.04	4.01	4.21	6.02	3.65	3.17	0.51	0.59	0.54	0.61	2.10	0.59
<u>35</u>	Energy Revenue Reqt \$ / Dkt	<u>3.00</u>	<u>4.90</u>	4.92	4.93	4.92	4.92	4.92	4.74	<u>4.73</u>	0.11	<u>0.21</u>	0.09	<u>4.69</u>	<u>0.05</u>
36	Total Revenue Reqt \$ / Dkt	6.82	10.84	11.48	12.75	9.82	12.74	8.91	7.99	5.30	$\frac{0.11}{0.72}$	$\frac{0.21}{0.76}$	0.71	7.56	0.64
ъ	•														
<u>Pro</u> <u>37</u>	<u>posed Return vs Present</u> <u>Proposed Total Retail Revenue</u>	929 20F	<u>816,764</u>	767 101	400 444	250 221	64 445	195 006	26.226	10 661	21 441	0 651	12 706	2 700	10.070
<u>37</u> 20	Revenue Deficiency	838,205 63,401	61,806	<u>767,101</u> 58,111	490,444 37,453	250,331 18,699	<u>64,445</u> 4,845	185,886 13,854	26,326 1,959	<u>49,664</u> 3,695	21,441 1,595	8,654 644	<u>12,786</u> 951	<u>2,708</u> 201	10,079 750
39	Deficiency / Pres Total Oper Revenue	8.18%	8.19%	8.20%	8.27%	8.07%	8.13%	8.05%	8.04%	3,093 8.04%	8.04%	8.04%	8.04%	8.04%	8.04%
	•	0.10/0	0.19/0	O.ZU / 0	0.47/0	0.07/0	0.13/0	0.05/0	0.04/0	0.04/0	0.04/0	0.04/0	0.U 1 /0	0.04/0	0.04/0
	posed Return vs Equal	0	42 5 40	4.550	12 222	4.4.427	7.07/	22.442	2 2 4 4	0.070	12.540	004	4.4.450	20	4.4.44.0
40	Revenue Difference	0 000/	13,549	4,579	-13,232	14,467	-7,976	22,443	3,344	8,970	-13,549	901	-14,450	-38 1 270/	-14,413
41	Difference / Tot Equal Revenue"	0.00%	1.69%	0.60%	-2.63%	6.13%	-11.01%	13.73%	14.55%	22.04%	-38.72%	11.63%	-53.05%	-1.37%	-58.85%

Northern States Power Company State of Minnesota Gas Jursidiction REVENUE APPORTIONMENT (w/ fuel costs) Test Year Ending December 31, 2026

	Present	CCOSS	Increase without	Present Revenue	% Increase to	Proposed	Proposed	Proposed
Residential	<u>Revenue</u> \$452,990,740	<u>Responsibility</u> \$503,675,719	<u>Design Change</u> \$490,058,508	<u>as % of Cost</u> 89.9%	<u>Pay Cost</u> 11.2%	<u>Revenue</u> \$492,328,639	<u>\$ Increase</u> \$39,337,899	<u>% Increase</u> 8.7%
Commercial	\$231,631,543	\$235,863,755	\$250,585,715	98.2%	1.8%	\$246,932,166	\$15,300,623	6.6%
Demand Billed	\$24,367,315	\$22,981,794	\$26,361,267	106.0%	-5.7%	\$26,077,931	\$1,710,616	7.0%
Interruptible	\$45,968,261	\$40,693,891	\$49,729,797	113.0%	-11.5%	\$49,446,468	\$3,478,207	7.6%
Transportation	\$8,010,323	\$7,752,874	\$8,665,799	103.3%	-3.2%	\$9,447,519	\$1,437,196	17.9%
<u>Generation</u>	\$11,835,221	\$27,236,738	\$12,803,68 <u>5</u>	43.5%	130.1%	<u>\$12,841,073</u>	\$1,005,852	8.5%
Total Retail	\$774,803,403	\$838,204,771	\$838,204,770	92.4%	8.2%	\$837,073,796	\$62,270,393	8.0%
Other Revenues - Late Payment Revenue I	<u>ncrease</u>					\$1,130,974	\$1,130,974	
Total Increase	\$774,803,403	\$838,204,771	\$838,204,770	92.4%	8.2%	\$838,204,770	\$63,401,367	8.2%

SUMMARY OF CUSTOMERS, SALES, AND PRESENT AND COMPLIANCE REVENUES Test Year Ending December 31, 2026

ſ	Average	Dkt	Reve	nue	Increase		
	Customers	Sales	Present	Proposed	Amount	Percent	
Firm Service							
Residential Firm	460,713	39,424,795	\$452,990,740	\$492,328,639	\$39,337,899	8.7%	
Small Commercial Firm	25,000	5,679,769	\$59,599,329	\$66,289,454	\$6,690,125	11.2%	
Large Commercial Firm	11,724	18,336,360	\$172,032,214	\$180,642,713	\$8,610,499	5.0%	
Small & Large Commercial Demand Billed	142	2,875,341	\$24,367,315	\$26,077,931	\$1,710,616	7.0%	
Total Firm Service	497,580	66,316,264	\$708,989,598	\$765,338,736	\$56,349,138	7.9%	
Interruptible Service							
Small Interruptible	148	1,195,245	\$8,167,640	\$8,691,458	\$523,819	6.4%	
Medium & Large Interruptible	80	6,476,557	\$37,800,622	\$40,755,010	\$2,954,389	7.8%	
Total Interruptible Service	227	7,671,802	\$45,968,261	\$49,446,468	\$3,478,207	7.6%	
Total Gas Sales	497,807	73,988,066	\$754,957,859	\$814,785,205	\$59,827,345	7.9%	
Transportation Service							
Total Transportation Service	25	10,190,089	\$8,010,323	\$9,447,519	\$1,437,196	17.9%	
Generation System	5	363,155	\$2,506,128	\$3,299,799	\$793,671	31.7%	
Generation Transportation	4	38,251,057	\$9,329,093	\$9,541,273	\$212,181	2.3%	
Total Retail* *February 2021 Gas Event surcharges are not inclu	497,841 ded.	122,792,367	\$774,803,403	\$837,073,796	\$62,270,393	8.0%	
Other Gas Revenues							
Late Payment Revenue Increase Winter Construction/Excess Footage				\$150,163 \$980,811	\$150,163 \$980,811		
Total Sales and Other Gas Revenues			\$774,803,403	\$838,204,770	\$63,401,367	8.2%	

DETAIL OF CUSTOMERS, SALES, AND PRESENT AND COMPLIANCE RATES AND REVENUES

Test Year Ending December 31, 2026

Revenue by Rate Schedule

Residential Firm

	U	Units		esent	Pro	posed	Incre	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	5,528,561		\$9.00	\$49,757,052	\$12.00	\$66,342,737	\$16,585,684	
Distribution Charge		394,247,949	\$0.380239	\$149,908,446	\$0.472233	\$186,176,965	\$36,268,519	
CIP Rider Roll In		394,247,949	\$0.010003	\$3,943,618	\$0.000000	\$0	(\$3,943,618)	
GUIC Rider Roll In		394,247,949	\$0.024281	\$9,572,687	\$0.000000	<u>\$0</u>	(\$9,572,687)	
Non-Fuel Subtotal				\$213,181,803		\$252,519,701	\$39,337,899	18.5%
Gas Supply - Summer		95,465,691	\$0.542376	\$51,778,335	\$0.542376	\$51,778,335	\$0	
Gas Supply - Winter		298,782,258	\$0.629323	\$188,030,603	\$0.629323	\$188,030,603	<u>\$0</u>	
Gas Supply Subtotal		394,247,949		\$239,808,938		\$239,808,938	\$0	0.0%
Average Customers	460,713		Total	\$452,990,740		\$492,328,639	\$39,337,899	8.7%

Small Commercial Firm

	U	nits	Pres	sent	Prop	osed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	300,006		\$20.00	\$6,000,116	\$30.00	\$9,000,174	\$3,000,058	
Distribution Charge	300,000	56,797,690	\$0.311426	\$17,688,278	\$0.401388	\$22,797,911	\$5,109,634	
CIP Base (CCRC) Exemption		1,311	(\$0.037502)	(\$49)	(\$0.047505)	(\$62)	(\$13)	
CIP Rider Roll In		56,797,690	\$0.010003	\$568,141	\$0.000000	\$0	(\$568,141)	
CIP Rider Roll In Exemption		1,311	(\$0.010003)	(\$13)	\$0.000000	\$0	\$13	
GUIC Rider Roll In		56,797,690	\$0.014991	\$851,426	\$0.000000	<u>\$0</u>	<u>(\$851,426)</u>	
Non-Fuel Subtotal				\$25,107,898		\$31,798,023	\$6,690,125	26.6%
Gas Supply - Summer		12,524,507	\$0.539494	\$6,756,898	\$0.539494	\$6,756,898	\$0	
Gas Supply - Winter	<u>-</u>	44,273,183	\$0.626441	\$27,734,533	\$0.626441	\$27,734,533	<u>\$0</u>	
Gas Supply Subtotal		56,797,690		\$34,491,431		\$34,491,431	\$0	0.0%
Average Customers	25,000		Total	\$59,599,329		\$66,289,454	\$6,690,125	11.2%

Large Commercial Firm

	U	nits	Pre	esent	Prop	oosed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
	4.40.707		* =0.00	*	* =0.00	# 7 00 4 00 5	* 0	
Customer Charge	140,686		\$50.00	\$7,034,305	\$50.00	\$7,034,305	\$0	
Distribution Charge		183,363,595	\$0.272547	\$49,975,198	\$0.344499	\$63,168,575	\$13,193,377	
CIP Base (CCRC) Exemption		59,089	(\$0.037502)	(\$2,216)	(\$0.047505)	(\$2,807)	(\$591)	
CIP Rider Roll In		183,363,595	\$0.010003	\$1,834,165	\$0.000000	\$0	(\$1,834,165)	
CIP Rider Roll In Exemption		59,089	(\$0.010003)	(\$591)	\$0.000000	\$0	\$591	
GUIC Rider Roll In		183,363,595	\$0.014991	\$2,748,713	\$0.000000	<u>\$0</u>	(\$2,748,713)	
Non-Fuel Subtotal				\$61,589,575		\$70,200,073	\$8,610,499	14.0%
Gas Supply - Summer		50,879,574	\$0.539494	\$27,449,230	\$0.539494	\$27,449,230	\$0	
Gas Supply - Winter	<u>-</u>	132,484,021	\$0.626441	\$82,993,410	\$0.626441	<u>\$82,993,410</u>	<u>\$0</u>	
Gas Supply Subtotal		183,363,595		\$110,442,640		\$110,442,640	\$0	0.0%
Average Customers	11,724		Total	\$172,032,214		\$180,642,713	\$8,610,499	5.0%

DETAIL OF CUSTOMERS, SALES, AND PRESENT AND COMPLIANCE RATES AND REVENUES

Test Year Ending December 31, 2026

Revenue by Rate Schedule

Small and Large Commercial Demand Billed

	U	nits	Pre	sent	Prop	osed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	1,704			\$453,000		\$453,000	\$0	
Distribution Demand Charge		3,424,767	\$0.895000	\$3,065,167	\$0.895000	\$3,065,167	\$0	
Distribution Commodity Charge		28,753,407	\$0.154138	\$4,431,993	\$0.225645	\$6,488,063	\$2,056,070	
CIP Base (CCRC) Exemption		267,409	(\$0.037502)	(\$10,028)	(\$0.047505)	(\$12,703)	(\$2,675)	
CIP Rider Roll In		28,753,407	\$0.010003	\$287,617	\$0.000000	\$0	(\$287,617)	
CIP Rider Roll In Exemption		267,409	(\$0.010003)	(\$2,675)	\$0.000000	\$0	\$2,675	
GUIC Rider Roll In		28,753,407	\$0.002011	\$57 <u>,836</u>	\$0.000000	<u>\$0</u>	<u>(\$57,836)</u>	
Non-Fuel Subtotal				\$8,282,910		\$9,993,526	\$1,710,616	20.7%
Gas Supply Demand		3,424,767	\$1.136784	\$3,893,220	\$1.136784	\$3,893,220	\$0	
Gas Supply Commodity		28,753,407	\$0.423991	\$12,191,185	\$0.423991	\$12,191,185	<u>\$0</u>	
Gas Supply Subtotal				\$16,084,405		\$16,084,405	\$0	0.0%
Average Customers	142		Total	\$24,367,315		\$26,077,931	\$1,710,616	7.0%

Small Interruptible

	U	nits	Pre	sent	Prop	oosed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
	4.770		#4.5 0.00	#2 45.045	#4.F0.00	#2 45.045	ФО.	
Customer Charge	1,772		\$150.00	\$265,815	\$150.00	\$265,815	\$0	
Distribution Charge - Tier I		5,976,226	\$0.220365	\$1,316,951	\$0.284904	\$1,702,651	\$385,700	
Distribution Charge - Tier II		5,976,226	\$0.198329	\$1,185,259	\$0.256414	\$1,532,388	\$347,129	
CIP Rider Roll In		11,952,452	\$0.010003	\$119,559	\$0.000000	\$0	(\$119,559)	
GUIC Rider Roll In		11,952,452	\$0.007484	<u>\$89,451</u>	\$0.000000	<u>\$0</u>	<u>(\$89,451)</u>	
Non-Fuel Subtotal				\$2,977,035		\$3,500,854	\$523,819	17.6%
Gas Supply Charge		11,952,452	\$0.434271	<u>\$5,190,604</u>	\$0.434271	\$5,190,604	<u>\$0</u>	0.0%
Average Customers	148		Total	\$8,167,640		\$8,691,458	\$523,819	6.4%

Medium and Large Interruptible

	Units		Pres	sent	Prop	osed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	956			\$292,292		\$292,292	\$0	
Distribution Charge - Tier I	700	32,382,783		\$4,793,076		\$6,944,085	\$2,151,009	
Distribution Charge - Tier II		32,382,783		\$4,313,767		\$6,249,689	\$1,935,922	
CIP Base (CCRC) Exemption		-	(\$0.037502)	\$0	(\$0.047505)	\$0	\$0	
CIP Rider Roll In		64,765,566	\$0.010003	\$647,843	\$0.000000	\$0	(\$647,843)	
CIP Rider Roll In Exemption		-	(\$0.010003)	\$0	\$0.000000	\$0	\$0	
GUIC Rider Roll In		64,765,566	\$0.007484	\$484,7 00	\$0.000000	<u>\$0</u>	<u>(\$484,700)</u>	
Non-Fuel Subtotal				\$10,531,678		\$13,486,067	\$2,954,389	28.1%
Gas Supply Charge		64,765,566		\$27,268,944		<u>\$27,268,944</u>	<u>\$0</u>	0.0%
Average Customers	80		Total	\$37,800,622		\$40,755,010	\$2,954,389	7.8%

DETAIL OF CUSTOMERS, SALES, AND PRESENT AND COMPLIANCE RATES AND REVENUES

Test Year Ending December 31, 2026

Revenue by Rate Schedule

Transportation (summary of 26 customers)

	Units		Pr	Present		oposed	Increase	
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	300			\$93,300		\$93,300	\$0	
Distribution Charge		101,900,891		\$6,355,031		\$8,185,068	\$1,830,037	
Distribution Demand Charge		988,860		\$885,030		\$885,030	\$0	
CIP Base (CCRC) Exemption		63,249,350		\$0		\$0	\$0	
CIP Rider Roll In		101,900,891		\$1,019,303		\$763,305	(\$255,998)	
CIP Rider Roll In Exemption		63,249,350		(\$632,676)		(\$632,676)	\$0	
GUIC Rider Roll In		101,900,891		\$290,335		\$153,492	(\$136,843)	
Average Customers	25		Total	\$8,010,323		\$9,447,519	\$1,437,196	17.9%

Generation (summary of 9 customers)

	Units		P	resent	Pro	oposed	Increa	ase
	Bills	Therms	Rate	Revenue	Rate	Revenue	Amount	Percent
Customer Charge	108	<u>.</u>		\$31,200		\$31,200	\$0	
Distribution Charges		386,142,114		\$9,491,096		\$10,597,098	\$1,106,002	
CIP Base (CCRC) Exemption		382,757,656		(\$212,193)		(\$268,791)	(\$56,598)	
CIP Rider Roll In		386,142,114		\$3,862,536		\$3,804,238	(\$58,298)	
CIP Rider Roll In Exemption		382,757,656		(\$3,828,682)		(\$3,772,083)	\$56,598	
GUIC Rider Roll In		386,142,114		\$824,432		<u>\$782,580</u>	<u>(\$41,853)</u>	
Non-Fuel Subtotal				\$10,168,389		\$11,174,241	\$1,005,852	9.9%
Gas Supply Charge				\$1,666,832		\$1,666,832	\$0	0.0%
Average Customers	9		Total	\$11,835,221		\$12,841,073	\$1,005,852	8.5%

Northern States Power Company State of Minnesota Gas Jursidiction

Winter

\$1.101556

\$1.027829

PRESENT & PROPOSED RATES Test Year Ending December 31, 2026

PRESENT RATES Customer Charge (\$/Month)	Res \$9.00	<u>Sm Com</u> \$20.00	Lg Com \$50.00	<u>Sm Dmd</u> \$175.00	Lg Dmd \$275.00	<u>Sm Int</u> \$150.00	Med Int \$300.00	Lg Int \$450.00	Lg Fm Tran \$300.00	<u>Sm Int Tran</u> \$175.00	Med Int Tran \$325.00	<u>Lg Int Tran</u> \$475.00
Distribution Charges (\$/There Commodity Commodity-Int Tier II Demand	m) \$0.380239 N/A	\$0.311426 N/A	\$0.272547 N/A	\$0.154138 \$0.89500	\$0.154138 \$0.89500	\$0.220365 \$0.198329 N/A	\$0.154138 \$0.138724 N/A		\$0.154138 \$0.89500	\$0.220365 N/A	\$0.154138 N/A	\$0.136293 N/A
Proposed Cost of Gas (\$/There Summer Winter	m) \$0.542376 \$0.629323	\$0.539494 \$0.626441	\$0.539494 \$0.626441	\$0.423991 \$1.136784	\$0.423991 \$1.136784	\$0.434271 \$0.434271	\$0.421173 \$0.421173					
Total Commodity Rate (\$/The Summer Winter	\$0.922615 \$1.009562	\$0.850920 \$0.937867	\$0.812041 \$0.898988	\$0.578129 \$2.031784	\$0.578129 \$2.031784	\$0.654636 \$0.654636	\$0.575311 \$0.575311	"				
PROPOSED RATES Customer Charge (\$/Month)	<u>Res</u> \$12.00	<u>Sm Com</u> \$30.00	<u>Lg Com</u> \$50.00	<u>Sm Dmd</u> \$175.00	<u>Lg Dmd</u> \$275.00	<u>Sm Int</u> \$150.00	Med Int \$300.00	Lg Int \$450.00	<u>Lg Fm Tran</u> \$300.00	<u>Sm Int Tran</u> \$175.00	Med Int Tran \$325.00	<u>Lg Int Tran</u> \$475.00
	\$12.00	<u> </u>	O	·	O	· · · · · · · · · · · · · · · · · · ·		\$450.00 \$0.192992				
Customer Charge (\$/Month) Distribution Charges (\$/There Commodity Commodity-Int Tier II	\$12.00 m) \$0.472233 N/A	\$30.00 \$0.401388	\$50.00 \$0.344499	\$175.00 \$0.225645	\$275.00 \$0.225645	\$150.00 \$0.284904 \$0.256414 N/A \$0.434271	\$300.00 \$0.225645 \$0.203081	\$450.00 \$0.192992 \$0.173693 N/A \$0.420788	\$300.00 \$0.225645	\$175.00 \$0.284904	\$325.00 \$0.225645	\$475.00 \$0.192992

\$0.970940 \$2.031784 \$2.031784 \$0.719175 \$0.646818 \$0.613780

REVENUE DEFICIENCY VS. PROPOSED RATES (w/ fuel)

Customer Class	Total Present Revenues	Revenue Deficiency Indicated by CCOSS	Total Effect Of Proposed Rates	Difference Between Revenue Deficiency and Proposed Rates
Residential	\$452,990,740	\$50,684,978 11.2%	\$39,337,899 8.7%	\$11,347,080 2.5%
Small Commercial	\$59,599,329	\$12,821,570 21.5%	\$6,690,125 11.2%	\$6,131,445 10.3%
Large Commercial	\$172,032,214	(\$8,589,358) -5.0%	\$8,610,499 5.0%	(\$17,199,857) -10.0%
Small & Large Commercial Demand Billed	\$24,367,315	(\$1,385,521) -5.7%	\$1,710,616 7.0%	(\$3,096,137) -12.7%
Small Interruptible	\$8,167,640	(\$1,507,191) -18.5%	\$523,819 6.4%	(\$2,031,010) -24.9%
Medium & Large Interruptible	\$37,800,622	(\$3,767,179) -10.0%	\$2,954,389 7.8%	(\$6,721,568) -17.8%
Transportation	\$8,010,323	(\$257,448) -3.2%	\$1,437,196 17.9%	(\$1,694,644) -21.2%
Generation - System	\$2,506,128	\$239,013 9.5%	\$793,671 31.7%	(\$554,659) -22.1%
Generation - Transportation	\$9,329,093	\$15,162,505 162.5%	\$212,181 2.3%	\$14,950,324 160.3%
Other Revenues			\$1,130,974 4.3%	(\$1,130,974) 4.3%
Total	\$774,803,403	\$63,401,368 8.2%	\$63,401,367 8.2%	\$0.0%

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COMPARISON OF MONTHLY BILLS UNDER PRESENT AND PROPOSED RATES Test Year Ending December 31, 2026

RESIDENTIAL FIRM SERVICE

MONTHLY	BIL	LING	INCRI	EASE
THERM USE	PRESENT	PROPOSED	AMOUNT	PERCENT
10	\$19.23	\$22.81	\$3.58	18.6%
20	\$29.46	\$33.61	\$4.15	14.1%
30	\$39.68	\$44.42	\$4.74	11.9%
40	\$49.91	\$55.22	\$5.31	10.6%
50	\$60.14	\$66.03	\$5.89	9.8%
71	\$81.94	\$89.05	\$7.11	8.7%
100	\$111.28	\$120.05	\$8.77	7.9%
200	\$213.56	\$228.10	\$14.54	6.8%
300	\$315.84	\$336.15	\$20.31	6.4%
500	\$520.40	\$552.25	\$31.85	6.1%
		PRESENT	PROPOSED	
		RATE	<u>RATE</u>	
Customer	Charge	\$9.00	\$12.00	
Distribution	on Charge	\$0.380239	\$0.472233	
Average C	Cost of Gas	<u>\$0.608270</u>	<u>\$0.608270</u>	
Commodi	ty Total	\$0.988509	\$1.080503	
GUIC/CI	P	\$0.034284	\$0.000000	

SMALL COMMERCIAL FIRM SERVICE

MONTHLY	DII	LING	INCR	EACE
THERM USE	<u>PRESENT</u>	<u>PROPOSED</u>	AMOUNT	PERCENT
50	\$67.18	\$80.43	\$13.25	19.7%
100	\$114.37	\$130.87	\$16.50	14.4%
200	\$208.74	\$231.73	\$22.99	11.0%
189	\$198.44	\$220.72	\$22.28	11.2%
250	\$255.92	\$282.16	\$26.24	10.3%
350	\$350.29	\$383.03	\$32.74	9.3%
500	\$491.84	\$534.33	\$42.49	8.6%
750	\$727.77	\$786.49	\$58.72	8.1%
1,000	\$963.69	\$1,038.66	\$74.97	7.8%
		PRESENT	PROPOSED	
		RATE	RATE	
Customer	Charge	\$20.00	\$30.00	
Distributio	on Charge	\$0.311426	\$0.401388	
<u>Average C</u>	ost of Gas	<u>\$0.607270</u>	<u>\$0.607270</u>	
Commodi	ty Total	\$0.918696	\$1.008658	
GUIC/CI	P	\$0.024993	\$0.000000	

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COMPARISON OF MONTHLY BILLS UNDER PRESENT AND PROPOSED RATES Test Year Ending December 31, 2026

LARGE COMMERCIAL FIRM GAS SERVICE SYSTEM SUPPLY

MONTHLY		INCR	NCREASE		
THERM USE	PRESENT	PROPOSED	AMOUNT	PERCENT	
100	\$139.99	\$144.68	\$4.69	3.4%	
250	\$274.96	\$286.70	\$11.74	4.3%	
500	\$499.93	\$523.40	\$23.47	4.7%	
750	\$724.89	\$760.11	\$35.22	4.9%	
1,000	\$949.85	\$996.81	\$46.96	4.9%	
2,167	\$2,000.18	\$2,101.95	\$101.77	5.1%	
3,000	\$2,749.55	\$2,890.43	\$140.88	5.1%	
5,000	\$4,549.25	\$4,784.05	\$234.80	5.2%	
7,500	\$6,798.88	\$7,151.07	\$352.19	5.2%	
10,000	\$9,048.50	\$9,518.09	\$469.59	5.2%	
		PRESENT	PROPOSED		
		RATE	RATE		
Custom	ner Charge	\$50.00	\$50.00		
Distrib	ution Charge	\$0.272547	\$0.344499		
Average	e Cost of Gas	<u>\$0.602310</u>	<u>\$0.602310</u>		
Commo	odity Total	\$0.874857	\$0.946809		
GUIC/	CIP	\$0.024993	\$0.00000		

SMALL INTERRUPTIBLE GAS SERVICE SYSTEM SUPPLY

MONTHLY		LING	INCR	EASE
THERM USE	PRESENT	PROPOSED	AMOUNT	PERCENT
2,500	\$1,830.31	\$1,947.94	\$117.63	6.4%
5,000	\$3,510.61	\$3,745.88	\$235.27	6.7%
6,745	\$4,683.33	\$5,000.68	\$317.35	6.8%
10,000	\$6,871.23	\$7,341.75	\$470.52	6.8%
15,000	\$10,231.84	\$10,937.63	\$705.79	6.9%
20,000	\$13,592.46	\$14,533.50	\$941.04	6.9%
25,000	\$16,953.07	\$18,129.38	\$1,176.31	6.9%
30,000	\$20,313.69	\$21,725.25	\$1,411.56	6.9%
40,000	\$27,034.91	\$28,917.00	\$1,882.09	7.0%
50,000	\$33,756.14	\$36,108.75	\$2,352.61	7.0%
		PRESENT	PROPOSED	
		<u>RATE</u>	RATE	
Customer (Charge	\$150.00	\$150.00	
Distribution	n Charge	\$0.220365	\$0.284904	
Cost of Gas	<u>3</u>	<u>\$0.434271</u>	<u>\$0.434271</u>	
Commodity	y Total	\$0.654636	\$0.719175	
GUIC/CIP	•	\$0.017487	\$0.000000	

MEDIUM INTERRUPTIBLE GAS SERVICE SYSTEM SUPPLY

MONTHLY	BIL	LING	INCR	EASE
THERM USE	PRESENT	PROPOSED	AMOUNT	PERCENT
5,000	\$3,263.99	\$3,534.09	\$270.10	8.3%
10,000	\$6,227.98	\$6,768.18	\$540.20	8.7%
20,000	\$12,155.96	\$13,236.36	\$1,080.40	8.9%
30,000	\$18,083.93	\$19,704.54	\$1,620.61	9.0%
40,000	\$24,011.91	\$26,172.72	\$2,160.81	9.0%
46,220	\$27,698.82	\$30,195.61	\$2,496.79	9.0%
60,000	\$35,867.87	\$39,109.08	\$3,241.21	9.0%
70,000	\$41,795.84	\$45,577.26	\$3,781.42	9.0%
80,000	\$47,723.82	\$52,045.44	\$4,321.62	9.1%

	PRESENT	PROPOSED
	RATE	RATE
Customer Charge	\$300.00	\$300.00
Distribution Charge	\$0.154138	\$0.225645
Cost of Gas	<u>\$0.421173</u>	<u>\$0.421173</u>
Commodity Total	\$0.575311	\$0.646818
GUIC/CIP	\$0.017487	\$0.000000

LARGE INTERRUPTIBLE GAS SERVICE SYSTEM SUPPLY

MONTHLY	BIL	LING	INCREASE				
THERM USE	PRESENT	PROPOSED	AMOUNT	PERCENT			
50,000	\$29,178.38	\$31,138.99	\$1,960.61	6.7%			
100,000	\$57,906.76	\$61,827.98	\$3,921.22	6.8%			
200,000	\$115,363.52	\$123,205.96	\$7,842.44	6.8%			
300,000	\$172,820.28	\$184,583.94	\$11,763.66	6.8%			
400,000	\$230,277.05	\$245,961.92	\$15,684.87	6.8%			
617,483	\$355,235.79	\$379,448.66	\$24,212.87	6.8%			
500,000	\$287,733.81	\$307,339.90	\$19,606.09	6.8%			
600,000	\$345,190.57	\$368,717.89	\$23,527.32	6.8%			
700,000	\$402,647.33	\$430,095.87	\$27,448.54	6.8%			

	PRESENT	PROPOSED			
	RATE	RATE			
Customer Charge	\$450.00	\$450.00			
Distribution Charge	\$0.136293	\$0.192992			
Cost of Gas	\$0.420788	\$0.420788			
Commodity Total	\$0.557081	\$0.613780			
GUIC/CIP	\$0.017487	\$0.000000			

Docket No. G002/GR-25-356 Exhibit___(MMT-1), Schedule 9 Page 1 of 2

Summary List of Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>						
Index of Company's Service Area	3-1, 3-1.1, 3-2, 3-2.1, 3-3		Service area updates.						
Residential Firm Service	5-1	101	1. Rate changes.						
Commercial Firm Service	5-2	Small: 102, 108 Large: 118, 125	1. Rate changes.						
Commercial Demand Billed Service	5-3, 5-4	Small: 119 Large: 103	 Rate changes. Edited "Revenue Decoupling Mechanism Rider" (RDM Rider) language to include Small Commercial Demand as applicable to the RDM Rider. 						
Large Firm Transportation Service	5-5, 5-6	104	 Rate changes. Added "Revenue Decoupling Mechanism Rider" language to include Large Firm Transport as applicable to the RDM Rider. 						
Interruptible Service	5-10.1, 5-11, 5-11.1	Small: 105, 111, 130, 131 Medium: 106, 132 Large: 120, 133	 Rate changes. Edited "Revenue Decoupling Mechanism Rider" (RDM Rider) language to include Large Interruptible as applicable to the RDM Rider. 						
Interruptible Transportation Service	5-16, 5-17, 5-17.1	Small: 123 Medium: 107 Large: 124	 Rate changes. Added "Revenue Decoupling Mechanism Rider" language to include Interruptible Transport as applicable to the RDM Rider. 						
Negotiated Transportation Service	5-24	114	1. Rate changes.						
Conservation Improvement Program Adjustment Rider	5-43.1		1. Rate changes to the Conservation Cost Recovery Charge (CCRC) and the CCRC Exemption Factor.						
Revenue Decoupling Mechanism Rider	5-71, 5-72		 Added all services, except "Negotiated Transportation Service" as being applicable to adjustments in the RDM Rider. Edited deferral account language to account for all classes that will be applicable to the RDM Rider. 						
General Rules and Regulations – Service Excess Footage Charge	6-18.2		1. Rate change.						

Northern States Power Company State of Minnesota Gas Jurisdiction SUMMARY LIST OF TARIFF CHANGES Docket No. G002/GR-25-356 Exhibit___(MMT-1), Schedule 9 Page 2 of 2

Summary List of Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
General Rules and Regulations – Winter Construction Charges	6-19		1. Rate changes.
Commercial and Industrial Service Agreement	7-7.1		1. Removed incorrectly placed dollar sign.
Underground Gas And/Or Electric Distribution Agreement	7-31, 7-32, 7-33		 Changed multiple construction requirements from set numbers to references to the Xcel Energy Standards and Use Manual. Added that developers will add marker stakes at lot numbers or house numbers. Added "changes" by a developer as a reason for developers to pay excess installation costs. Added that customers will pay the cost to relocate facilities to accommodate alterations. Customer is also responsible for reaching out to other contractors, building authorities, and other utilities for other potential requirements.

Northern States Power Company State of Minnesota Gas Jursidiction

END USER ALLOCATION SERVICE: COST STUDY

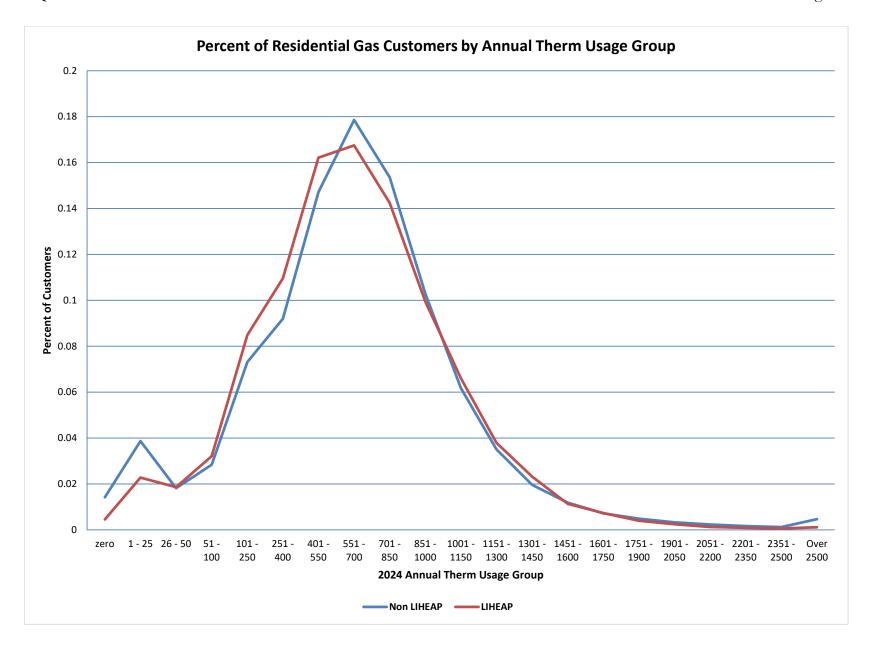
Number of EUAS Customers as of September 2024

Docket No. G002/GR-25-356 Exhibit___(MMT-1), Schedule 10 Page 1 of 1

(1)	(2)			Appual	(3) Loaded	(4) Annual	(5) = (3)*(4)	(6)=(5)/12	(7)	(8)=(6)/(7)
<u>Category</u>	<u>Employee</u>	Salary Midpoint	Labor Loading	Annual Work <u>Hours</u>	Hourly Rate	EUAS Hours	Annual <u>Labor</u>	Monthly <u>Labor</u>	<u>Customers</u>	Monthly Cost / Customer
Operational Labor	Principal Analyst	\$125,250	166.36%	2,080	\$100.18	48	\$4,808.64	\$400.72	8	\$50.09
Regulatory Exp *	Associate Analyst	\$94,600	166.36%	2,080	\$75.66	12	\$907.92	\$75.66	8	\$9.46
Regulatory Exp **	Management / Legal	\$165,650	<u>166.36%</u>	<u>2,080</u>	\$132.49	<u>3</u>	\$397.47	\$33.12	<u>8</u>	<u>\$4.14</u>
Total										\$63.69

^{*} Estimated staff hours required for development and monitoring of compliance filings.

^{**} Estimated mgmt/legal hours required for compliance filing.



Northern States Power Company State of Minnesota Gas Jurisdiction

Revenue Decoupling Mechanism Model

Residential

TY 2026 Therms and Customers Therms Customers	Jan-26 74,698,663 459,709	Feb-26 65,527,143 459,971	Mar-26 49,178,932 460,207	Apr-26 28,448,702 460,320	May-26 15,367,169 460,575	Jun-26 7,892,660 460,298	Jul-26 6,500,899 460,264	Aug-26 6,711,477 460,479	Sep-26 8,654,843 460,714	Oct-26 21,889,941 461,483	Nov-26 42,079,205 462,029	Dec-26 67,298,315 462,511	Annual 394,247,949 460,713
Distribution Charge (\$/therm) Customer Charge (\$/month)	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	\$0.472233 \$12.00	
TY 2026 Revenues	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Distribution Charge Revenue	\$35,275,188	\$30,944,092	\$23,223,924	\$13,434,421	\$7,256,887	\$3,727,176	\$3,069,940	\$3,169,382	\$4,087,104	\$10,337,157	\$19,871,197	\$31,780,498	\$186,176,965
Customer Charge Revenue	\$5,516,506	\$5,519,656	\$5,522,486	\$5,523,839	\$5,526,895	\$5,523,580	\$5,523,170	\$5,525,748	\$5,528,572	\$5,537,801	\$5,544,350	\$5,550,134	\$66,342,737
Distribution + Customer Chg Revenue	\$40,791,694	\$36,463,748	\$28,746,410	\$18,958,260	\$12,783,782	\$9,250,755	\$8,593,111	\$8,695,130	\$9,615,676	\$15,874,958	\$25,415,547	\$37,330,631	\$252,519,701
CCRC Revenue @ 0.047505/therm	\$3,548,552	\$3,112,860	\$2,336,240	\$1,351,452	\$730,016	\$374,940	\$308,824	\$318,828	\$411,147	\$1,039,879	\$1,998,968	\$3,196,999	\$18,728,704
Distribution + Customer Chg Rev w/o CCRC	\$37,243,142	\$33,350,888	\$26,410,170	\$17,606,808	\$12,053,766	\$8,875,816	\$8,284,286	\$8,376,302	\$9,204,529	\$14,835,078	\$23,416,579	\$34,133,632	\$233,790,997
FRC (Fixed Revenue per Customer) - 2026 FDC (Fixed Distribution Charge) - 2026	Jan \$81.01 \$0.498578	Feb \$72.51 \$0.508963	Mar \$57.39 \$0.537022	Apr \$38.25 \$0.618897	May \$26.17 \$0.784384	Jun \$19.28 \$1.124566	Jul \$18.00 \$1.274329	Aug \$18.19 \$1.248056	Sep \$19.98 \$1.063512	Oct \$32.15 \$0.677712	Nov \$50.68 \$0.556488	Dec \$73.80 \$0.507199	

Northern States Power Company State of Minnesota Gas Jurisdiction

Revenue Decoupling Mechanism Model

Small Commercial & Industrial

TY 2026 Therms and Customers Therms Customers	Jan-26 10,936,685 25,058	Feb-26 10,108,400 25,074	Mar-26 7,619,544 25,126	Apr-26 3,817,288 25,140	May-26 2,207,344 25,121	Jun-26 1,182,665 25,080	Jul-26 582,503 24,922	Aug-26 894,087 24,907	Sep-26 1,129,048 24,894	Oct-26 2,711,572 24,884	Nov-26 5,836,836 24,875	Dec-26 9,771,719 24,925	Annual 56,797,690 25,000
Distribution Charge (\$/therm) Customer Charge (\$/month)	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	\$0.401388 \$30.00	
TY 2026 Revenue	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Distribution Charge Revenue	\$4,389,854	\$4,057,390	\$3,058,393	\$1,532,214	\$886,001	\$474,708	\$233,810	\$358,876	\$453,186	\$1,088,393	\$2,342,836	\$3,922,251	\$22,797,911
Customer Charge Revenue	\$751,752	\$752,215	\$753,773	\$754,203	\$753,620	\$752,385	\$747,660	\$747,209	\$746,830	\$746,515	\$746,254	\$747,758	\$9,000,174
Distribution + Customer Charge Revenue	\$5,141,606	\$4,809,605	\$3,812,166	\$2,286,416	\$1,639,622	\$1,227,093	\$981,470	\$1,106,084	\$1,200,016	\$1,834,908	\$3,089,090	\$4,670,009	\$31,798,085
CIP Exempt Therms	426	215	112	45	10	8	6	8	10	41	185	247	1,311
CCRC Related Therms	10,936,260	10,108,185	7,619,432	3,817,243	2,207,334	1,182,657	582,497	894,079	1,129,038	2,711,532	5,836,651	9,771,472	56,796,379
CCRC Revenue @ 0.047505/therm	\$519,526	\$480,188	\$361,960	\$181,338	\$104,859	\$56,182	\$27,671	\$42,473	\$53,635	\$128,811	\$277,269	\$464,193	\$2,698,106
Distribution + Customer Chg Rev w/o CCRC	\$4,622,081	\$4,329,417	\$3,450,206	\$2,105,079	\$1,534,762	\$1,170,911	\$953,798	\$1,063,611	\$1,146,381	\$1,706,097	\$2,811,821	\$4,205,816	\$29,099,980
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
FRC (Fixed Revenue per Customer) - 2026	\$184.45	\$172.67	\$137.32	\$83.73	\$61.10	\$46.69	\$38.27	\$42.70	\$46.05	\$68.56	\$113.04	\$168.74	
FDC (Fixed Distribution Charge) - 2026	\$0.422622	\$0.428299	\$0.452810	\$0.551459	\$0.695298	\$0.990061	\$1.637414	\$1.189606	\$1.015352	\$0.629191	\$0.481737	\$0.430407	

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Revenue Decoupling Mechanism Model

Large Commercial & Industrial

TY 2026 Therms and Customers Therms Customers	Jan-26 31,433,714 11,734	Feb-26 29,534,972 11,738	Mar-26 22,510,169 11,743	Apr-26 13,747,522 11,742	May-26 8,006,127 11,738	Jun-26 5,134,635 11,733	Jul-26 3,682,053 11,725	Aug-26 4,046,790 11,718	Sep-26 5,043,429 11,716	Oct-26 11,219,019 11,700	Nov-26 19,763,540 11,698	Dec-26 29,241,626 11,700	Annual 183,363,595 11,724
Distribution Charge (\$/therm) Customer Charge (\$/month)	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	\$0.344499 \$50.00	
TY 2026 Revenue	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Distribution Charge Revenue	\$10,828,883	\$10,174,768	\$7,754,731	\$4,736,008	\$2,758,103	\$1,768,877	\$1,268,464	\$1,394,115	\$1,737,456	\$3,864,941	\$6,808,520	\$10,073,711	\$63,168,575
Customer Charge Revenue	\$586,708	\$586,914	\$587,171	\$587,120	\$586,914	\$586,656	\$586,244	\$585,883	\$585,780	\$585,007	\$584,904	\$585,007	\$7,034,305
TY 2026 Distribution Charge Revenue	\$11,415,590	\$10,761,682	\$8,341,902	\$5,323,127	\$3,345,016	\$2,355,533	\$1,854,707	\$1,979,998	\$2,323,236	\$4,449,948	\$7,393,423	\$10,658,717	\$70,202,880
CIP Exempt Therms	10,193	8,236	6,391	3,435	2,001	1,860	1,752	1,888	2,291	3,741	7,925	9,378	59,089
CCRC Related Therms	31,423,521	29,526,737	22,503,778	13,744,087	8,004,126	5,132,775	3,680,301	4,044,902	5,041,137	11,215,279	19,755,615	29,232,248	183,304,506
CCRC Revenue @ 0.047505/therm	\$1,492,771	\$1,402,664	\$1,069,039	\$652,911	\$380,235	\$243,832	\$174,832	\$192,153	\$239,479	\$532,781	\$938,488	\$1,388,675	\$8,707,860
Dist. Chg Rev w/o CCRC - TY 2026	\$9,922,820	\$9,359,018	\$7,272,863	\$4,670,216	\$2,964,781	\$2,111,701	\$1,679,875	\$1,787,845	\$2,083,757	\$3,917,167	\$6,454,935	\$9,270,043	\$61,495,020
FRC (Fixed Revenue per Customer) - 2026	Jan \$845.64	Feb \$797.31	Mar \$619.31	Apr \$397.72	May \$252.57	Jun \$179.98	Jul \$143.27	Aug \$152.58	Sep \$177.86	Oct \$334.80	Nov \$551.79	Dec \$792.30	
FDC (Fixed Distribution Charge) - 2026	\$0.315674	\$0.316879	\$0.323092	\$0.339713	\$0.370314	\$0.411266	\$0.456233	\$0.441793	\$0.413163	\$0.349154	\$0.326608	\$0.317015	

Northern States Power Company State of Minnesota Gas Jurisdiction

Revenue Decoupling Mechanism Model

Demand Billed & Firm Transport

TY 2026 Therms and Customers Therms Customers	Jan-26 4,782,741 155	Feb-26 4,309,453 155	Mar-26 4,038,122 155	Apr-26 3,214,266 155	May-26 2,566,315 155	Jun-26 2,171,961 155	Jul-26 2,351,953 155	Aug-26 2,174,183 155	Sep-26 2,434,212 155	Oct-26 3,146,505 155	Nov-26 3,504,994 155	Dec-26 4,374,571 155	Annual 39,069,275 155
Distribution Charge (\$/therm)	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	\$0.225645	
Customer Charge (\$/month) - Small	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	
Customer Charge (\$/month) - Large	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	\$275.00	
Customer Charge (\$/month) - Firm Transport	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	
TY 2026 Revenue	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Distribution Charge Revenue	\$1,079,202	\$972,407	\$911,182	\$725,283	\$579,076	\$490,092	\$530,706	\$490,594	\$549,268	\$709,993	\$790,884	\$987,100	\$8,815,786
Customer Charge Revenue	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$499,200
Distribution + Customer Charge Revenue	\$1,120,802	\$1,014,007	\$952,782	\$766,883	\$620,676	\$531,692	\$572,306	\$532,194	\$590,868	\$751,593	\$832,484	\$1,028,700	\$9,314,986
CIP Exempt Therms	30,152	31,614	26,049	18,023	21,941	20,646	14,011	18,167	16,319	25,543	26,664	18,283	267,409
CCRC Related Therms	4,752,589	4,277,839	4,012,073	3,196,243	2,544,374	2,151,315	2,337,942	2,156,016	2,417,893	3,120,962	3,478,330	4,356,288	38,801,866
CCRC Revenue @ 0.047505/therm	\$225,771	\$203,218	\$190,593	\$151,837	\$120,870	\$102,198	\$111,064	\$102,421	\$114,862	\$148,261	\$165,238	\$206,945	\$1,843,278
Distribution + Customer Charge Revenue w/o CCRC	\$895,030	\$810,788	\$762,189	\$615,046	\$499,806	\$429,494	\$461,243	\$429,772	\$476,006	\$603,332	\$667,247	\$821,755	\$7,471,708
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
FRC (Fixed Revenue per Customer) - 2026	\$5,774.39	\$5,230.89	\$4,917.35	\$3,968.04	\$3,224.55	\$2,770.93	\$2,975.76	\$2,772.72	\$3,071.01	\$3,892.47	\$4,304.82	\$5,301.65	
FDC (Fixed Distribution Charge) - 2026	\$0.187138	\$0.188142	\$0.188748	\$0.191349	\$0.194756	\$2,770.93 \$0.197745	\$0.196111	\$0.197671	\$0.195548	\$0.191747	\$0.190370	\$0.187848	
FDC (Fixed Distribution Charge) - 2020	φυ. 107 130	φυ. 100 142	φυ. 100740	φυ. 191349	φυ. 1 <i>941</i> 30	φυ. 197743	φυ. 190111	φυ. 19707 1	φυ. 193346	φυ. 191747	φυ. 1903/0	φυ. 107040	

Northern States Power Company State of Minnesota Gas Jurisdiction

Revenue Decoupling Mechanism Model

Small Interruptible

TY 2026 Therms and Customers Tier 1 Therms Tier II Therms Customers	Jan-26 947,047 947,047 154	Feb-26 743,996 743,996 152	Mar-26 832,323 832,323 151	Apr-26 516,053 516,053 150	May-26 321,616 321,616 149	Jun-26 134,710 134,710 148	Jul-26 167,369 167,369 147	Aug-26 160,385 160,385 146	Sep-26 204,942 204,942 145	Oct-26 401,898 401,898 144	Nov-26 670,542 670,542 143	Dec-26 875,346 875,346 142	Annual 5,976,226 5,976,226 148
Tier 1 Distribution Charge (\$/therm) Tier 2 Distribution Charge (\$/therm) Customer Charge (\$/month)	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	\$0.284904 \$0.256414 \$150.00	
TY 2026 Revenue Distribution Charge Revenue Customer Charge Revenue TY 2026 Distribution Charge Revenue CCRC Revenue @ 0.047505/therm Dist. Chg Rev w/o CCRC - 2026	Jan-26 \$512,653 \$23,039 \$535,693 \$89,979	Feb-26 \$402,739 \$22,868 \$425,607 \$70,687 \$354,920	Mar-26 \$450,551 \$22,697 \$473,248 \$79,079 \$394,169	Apr-26 \$279,349 \$22,540 \$301,889 \$49,030 \$252,859	May-26 \$174,096 \$22,383 \$196,479 \$30,557 \$165,923	Jun-26 \$72,921 \$22,226 \$95,147 \$12,799 \$82,348	Jul-26 \$90,600 \$22,069 \$112,669 \$15,902	Aug-26 \$86,819 \$21,912 \$108,732 \$15,238 \$93,494	Sep-26 \$110,939 \$21,755 \$132,694 \$19,471 \$113,223	Oct-26 \$217,555 \$21,599 \$239,153 \$38,184 \$200,969	Nov-26 \$362,977 \$21,442 \$384,418 \$63,708 \$320,710	Dec-26 \$473,840 \$21,285 \$495,125 \$83,166 \$411,959	Annual \$3,235,039 \$265,815 \$3,500,854 \$567,800 \$2,933,054
FRC (Fixed Revenue per Customer) - 2026 FDC (Fixed Distribution Charge) - 2026	Jan \$2,901.90 \$0.235318	Feb \$2,328.06 \$0.238522	Mar \$2,605.00 \$0.236789	Apr \$1,682.73 \$0.244993	May \$1,111.93 \$0.257952	Jun \$555.75 \$0.305651	Jul \$657.71 \$0.289084	Aug \$640.01 \$0.291466	Sep \$780.65 \$0.276231	Oct \$1,395.71 \$0.250025	Nov \$2,243.60 \$0.239142	Dec \$2,903.19 \$0.235312	Ψ2,000,004

Revenue Decoupling Mechanism Model

Medium & Large Interruptible, Interruptible Transportation

TY 2026 Therms and Customers	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Therms	10,410,713	9,454,796	9,439,489	7,325,342	4,826,188	5,281,960	5,818,202	5,534,777	5,000,085	5,808,250	7,644,471	9,325,943	85,870,217
Customers	96	95	95	95	95	95	95	94	94	94	94	94	95
Medium Interruptible Dist. Chg - Tier 1 Medium Interruptible Dist. Chg - Tier 2 Large Interruptible Dist. Chg - Tier 1 Large Interruptible Dist. Chg - Tier 2 Interruptible Transport Distribution Charge Medium Interruptible Customer Charge Large Interruptible Customer Charge Interruptible Transport Customer Charge Large Interruptible Generation Customer Charge	\$0.225645 \$0.203081 \$0.192992 \$0.173693 \$0.225645 \$300.00 \$450.00 \$325.00 \$475.00												
TY 2026 Revenue	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Annual
Distribution Charge Revenue Customer Charge Revenue	\$2,153,431	\$1,959,458	\$1,945,593	\$1,513,283	\$1,013,217	\$1,078,636	\$1,190,805	\$1,129,788	\$1,038,739	\$1,215,353	\$1,593,413	\$1,947,528	\$17,779,245
	\$29,288	\$29,236	\$29,185	\$29,133	\$29,082	\$29,032	\$28,981	\$28,931	\$28,881	\$28,831	\$28,781	\$28,731	\$348,092
Distribution + Customer Charge Revenue CIP Exempt Therms	\$4,336,150	\$3,948,153	\$3,920,371	\$3,055,700	\$2,055,516	\$2,186,304	\$2,410,591	\$2,288,506	\$2,106,360	\$2,459,538	\$3,215,607	\$3,923,786	\$35,906,582
	2,919,456	2,032,066	2,132,901	2,535,729	1,693,895	1,589,699	1,579,164	1,608,061	1,716,708	3,380,522	2,641,598	2,912,805	26,742,604
CCRC Related Therms CCRC Revenue @ 0.047505/therm	7,491,257	7,422,730	7,306,588	4,789,613	3,132,293	3,692,262	4,239,038	3,926,716	3,283,377	2,427,727	5,002,873	6,413,138	59,127,612
	\$355,871	\$352,616	\$347,099	\$227,530	\$148,799	\$175,400	\$201,375	\$186,538	\$155,976	\$115,329	\$237,661	\$304,655	\$2,808,851
Distribution + Customer Charge Revenue w/o CCRC	\$3,980,279	\$3,595,537	\$3,573,273	\$2,828,170	\$1,906,717	\$2,010,903	\$2,209,216	\$2,101,968	\$1,950,383	\$2,344,209	\$2,977,946	\$3,619,130	\$33,097,731
FRC (Fixed Revenue per Customer) - 2026 FDC (Fixed Distribution Charge) - 2026	Jan \$41,623.27 \$0.382325	Feb \$37,667.52 \$0.380287	Mar \$37,501.74 \$0.378545	Apr \$29,735.43 \$0.386080	May \$20,083.51 \$0.395077	Jun \$21,218.28 \$0.380712	Jul \$23,352.01 \$0.379708	Aug \$22,257.72 \$0.379775	Sep \$20,689.23 \$0.390070	Oct \$24,911.03 \$0.403600	Nov \$31,701.85 \$0.389555	Dec \$38,596.33 \$0.388071	