

Direct Testimony and Schedules
Steven V. Huso

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 Electric Service in Minnesota

Docket No. E002/GR-19-564
Exhibit __ (SVH-1)

Rate Design

November 1, 2019

Table of Contents

I.	Introduction and Qualifications	1
II.	Revenue Determination	2
III.	Rate Design	7
	A. Pricing Objectives	7
	B. Class Revenue Apportionment	8
	C. Low Income Discount	11
	D. Rate Design Proposals	12
	1. Residential and Small Commercial Customer Charges	12
	2. Residential Service	14
	3. Residential Controlled Air Conditioning and Water Heating Rider	14
	4. C&I Demand Class Rate Design	18
	a. Base Energy and Demand Rates	18
	b. Interruptible Service	18
	c. Real Time Pricing	20
	d. Voltage Discounts	21
	5. Proposed General Time of Use Service Tariff	21
	6. Business Incentive and Sustainability Rider	27
	7. Street Lighting	30
	8. Fuel Clause Rider	32
	E. Development of 2021 and 2022 Rates	32
IV.	Conclusion	32

Schedules

Qualifications	Schedule 1
Summary of Tariff Changes	Schedule 2
Sales and Revenues by Rate	Schedule 3
Revenue by Major Rate Class	Schedule 4
Base Rate Revenue Comparison	Schedule 5
Monthly Bill Comparison	Schedule 6
Marginal Cost Study – Customer Related Costs	Schedule 7
Voltage Discount Analysis	Schedule 8
LED Fuel Cost Savings	Schedule 9
Fuel Clause Rider-Fuel Adjustment Factor Calculation	Schedule 10

1 **I. INTRODUCTION AND QUALIFICATIONS**

2
3 Q. PLEASE STATE YOUR NAME AND OCCUPATION.

4 A. My name is Steven V. Huso. I am employed as a Pricing Consultant in
5 Regulatory Administration for Northern States Power Company, doing
6 business as Xcel Energy (NSPM or the Company).

7
8 Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

9 A. I have 39 years of electric pricing experience with the Company. I provide
10 rate design, rate-revenue determinations, cost allocations, and other pricing
11 functions for the utility operating subsidiaries of Xcel Energy Inc. My
12 qualifications and experience are further described in Exhibit__(SVH-1),
13 Schedule 1.

14
15 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

16 A. My Direct Testimony presents the Company's revenue determinations and
17 proposed class revenue responsibility and rate design. I will briefly describe
18 the Company's proposed changes to its Business Incentive and Sustainability
19 (BIS) Rider tariff. I also sponsor the Company's rate schedules and tariffs. A
20 summary of the tariff changes proposed in this case is included as
21 Exhibit__(SVH-1), Schedule 2. The proposed changes to rates and tariffs
22 are provided in Volume 2F.

23
24 Q. HOW IS YOUR TESTIMONY ORGANIZED?

25 A. I present the remainder of my testimony in the following sections:

- 26 • Revenue Determination,
- 27 • Rate Design, and

- Conclusion.

II. REVENUE DETERMINATION

Q. WHAT ARE THE 2020 TEST YEAR ELECTRIC REVENUES FROM SALES AT PRESENT AND PROPOSED RATE LEVELS?

A. Table 1 shows 2020 test year revenues at present and proposed rates for the NSPM-Minnesota electric jurisdiction. Total rate revenue includes retail rate revenue and other increases. The “other increases” category includes increased late payment charges at proposed rates, proposed increase in Excess Footage and Winter Construction charges, and the proposed increase in interdepartmental revenue. Total rate revenue corresponds with the itemized retail rate category in our financial statements of operating revenues. The interdepartmental category is interdepartmental revenue at present rates, which corresponds to that itemized category in our financial statements.

Table 1
2020 Test Year Revenue (\$ Thousands)
NSPM-Minnesota Electric Jurisdiction

	Present	Proposed	Proposed Increase	Percent Increase
Retail Rate Revenue	\$3,120,405	\$3,320,983	\$200,578	6.43%
+Other Increases	0	849	849	
Total Rate Revenue	\$3,120,405	\$3,321,832	\$201,427	6.46%
Interdepartmental	735	735		
Total + Interdepartmental	\$3,121,140	\$3,322,567	\$201,427	6.45%

*Amounts may not total due to rounding.

Company witness Mr. Benjamin C. Halama presents the 2020 test year total revenue requirement and deficiency in his Direct Testimony. Present and

1 proposed 2020 test year revenues are based on the application of present and
2 proposed rates to the 2020 test year budgeted sales and customer counts
3 supported by Company witness Ms. Jannell E. Marks in her Direct Testimony.
4 Proposed rates were developed to recover the 2020 test year revenue
5 requirement.

6
7 Q. WHAT IS THE BASIS FOR THE RATES USED TO DETERMINE PRESENT REVENUE?

8 A. Present rates are the compliance rates from the Investigation into the Effects
9 on Electric and Natural Gas Utility Rates and Services of the 2017 Federal
10 Tax Cuts and Job Act, Docket No. E,G999/CI-17-895, which became
11 effective on June 1, 2019.

12
13 Q. DO YOU INCLUDE FUEL COSTS WHEN DETERMINING PRESENT AND PROPOSED
14 REVENUE?

15 A. Yes, although I also provide schedules that separate out fuel revenues as
16 discussed later in my testimony. As Mr. Halama details in his Direct
17 Testimony, the Company has included fuel expenses at the level filed in our
18 2020 Annual Fuel Forecast in Docket E002/AA-19-293 for 2020-2022 in
19 certain financial schedules. I have included this fuel expense forecast in total
20 revenue for rate design elements of the electric rate case filing, including
21 customer class revenue apportionment, certain rate ratios, and customer
22 notices that provide total bill impact information. This rate design approach
23 was described in Company comments regarding discussions with the
24 Department, filed September 9, 2019 in Docket No. E999/CI-03-802.

25
26 Q. WHAT ARE THE 2021 ELECTRIC REVENUES FROM SALES AT PRESENT AND
27 PROPOSED RATE LEVELS?

1 A. Table 2 shows 2021 revenues at present and proposed rates for the NSPM-
2 Minnesota electric jurisdiction. Proposed 2021 revenues are also presented in
3 Mr. Halama’s Direct Testimony.

4
5 **Table 2**
6 **2021 Plan Year Revenue (\$ Thousands)**
7 NSPM-Minnesota Electric Jurisdiction

	Present	Proposed	Proposed Increase	Percent Increase
Retail Rate Revenue	\$3,080,208	\$3,426,848	\$346,640	11.25%
+Other Increases	0	1,154	1,154	
Total Rate Revenue	\$3,080,208	\$3,428,003	\$347,795	11.29%
Interdepartmental	736	736		
Total + Interdepartmental	\$3,080,944	\$3,428,739	\$347,795	11.29%

13 *Amounts may not total due to rounding.

14
15 Q. HOW DID YOU DETERMINE PRESENT AND PROPOSED REVENUES FOR 2021?

16 A. Present revenue for the 2021 plan year is based on 2021 sales and the 2021
17 cost levels for the Transmission Cost Recovery (TCR) rider, the Renewable
18 Energy Standard (RES) rider, the Renewable Development Fund (RDF) rider,
19 and the Conservation Improvement Program (CIP) Adjustment rider.
20 Proposed 2021 revenue is based on the application of proposed 2021 rates to
21 the 2021 plan year budgeted sales and customer counts supported by Ms.
22 Marks. Proposed rates were developed to recover the 2021 plan year revenue
23 requirement.

24
25 Q. WHAT ARE THE 2022 ELECTRIC REVENUES FROM SALES AT PRESENT AND
26 PROPOSED RATE LEVELS?

27 A. Table 3 shows 2022 revenues at present and proposed rates for the NSPM-
28 Minnesota electric jurisdiction. Proposed 2022 revenues are also presented in

1 Mr. Halama's Direct Testimony.

2
3 **Table 3**

4 **2022 Plan Year Revenue (\$ Thousands)**

5 NSPM-Minnesota Electric Jurisdiction

6

	Present	Proposed	Proposed Increase	Percent Increase
Retail Rate Revenue	\$3,068,702	\$3,533,407	\$464,705	15.14%
+Other Increases	0	1,400	1,400	
Total Rate Revenue	\$3,068,702	\$3,534,807	\$466,105	15.19%
Interdepartmental	736	736		
Total + Interdepartmental	\$3,069,438	\$3,535,542	\$466,105	15.19%

7
8
9
10

11 *Amounts may not total due to rounding.

12
13 Q. HOW DID YOU DETERMINE PRESENT AND PROPOSED REVENUES FOR 2022?

14 A. Present revenue for the 2022 plan year is based on 2022 sales and the 2022
15 cost levels for the Transmission Cost Recovery (TCR) rider, the Renewable
16 Energy Standard (RES) rider, the Renewable Development Fund (RDF) rider,
17 and the Conservation Improvement Program (CIP) Adjustment rider.
18 Proposed 2022 revenue is based on the application of proposed 2022 rates to
19 the 2022 plan year budgeted sales and customer counts supported by Ms.
20 Marks. Proposed rates were developed to recover the 2022 plan year revenue
21 requirement.

22
23 Q. DO PRESENT AND PROPOSED REVENUES INCLUDE ECONOMIC DEVELOPMENT
24 DISCOUNTS FROM THE BUSINESS INCENTIVE AND SUSTAINABILITY (BIS)
25 RIDER AND THE COMPETITIVE RESPONSE RIDER (CRR)?

26 A. Yes. Economic development discounts are included for existing BIS Rider
27 and CRR accounts. The BIS Rider is a growing economic development
28 program and additional accounts are in the preliminary stage of development

1 and approval. Recognizing the difficulty in precisely forecasting BIS Rider
2 participation, the Company proposes to update BIS accounts and other
3 economic development discounts with information that is current at the time
4 a final rate compliance filing is prepared.

5
6 Q. HAVE YOU PROVIDED ADDITIONAL COMPARISONS OF PRESENT AND
7 PROPOSED REVENUES?

8 A. Yes. I prepared the following summary and detailed comparisons of present
9 and proposed rate revenues, as required by Minn. R. 7825.4300, parts A and
10 B, and the Commission's June 17, 2013 Order in the multiyear rate plan
11 Docket No. E,G999/M-12-587:

12 • Sales and Revenue by Rate Schedule

13 ○ 2020 Test Year: Exhibit____(SVH-1), Schedule 3, page 1 of 3.

14 ○ 2021 Plan Year: Schedule 3, page 2 of 3

15 ○ 2022 Plan Year: Schedule 3, page 3 of 3.

16 • Base and Total Revenue by Major Rate Class

17 ○ 2020 Test Year: Exhibit____(SVH-1), Schedule 4, page 1 of 3.

18 ○ 2021 Plan Year: Schedule 4, page 2 of 3

19 ○ 2022 Plan Year: Schedule 4, page 3 of 3.

20 • Sales and Revenue by Rate Schedule and Component

21 ○ 2020 Test Year and 2021 and 2022 plan years Filed in Required
22 Information, Volume 3.

23
24 Q. ARE ANY FUEL COSTS INCLUDED IN BASE RATES?

25 A. No. All rates and billing quantities are separated into the three categories of
26 base rates, fuel costs, and cost-recovery riders. This is consistent with the rate
27 design presentation in prior Company rate case filings and with Commission

1 deliberations in Docket No. E999/CI-03-802. My Schedule 4 itemizes these
2 three categories by customer class.

3
4 Q. ARE ALL RIDERS CONSIDERED COST-RECOVERY RIDERS?

5 A. No. It is necessary to distinguish cost-recovery riders that recover specific
6 costs, such as the TCR rider, with tariffs that are rate design riders. There are
7 several tariffs that are referred to as riders, such as the Tier 1 Energy
8 Controlled Service Rider, with the rider reference only signifying an
9 attachment with another rate design tariff for base rates.

10
11 Q. PLEASE DESCRIBE EXHIBIT____(SVH-1), SCHEDULE 5 AND EXHIBIT____(SVH-
12 1), SCHEDULE 6.

13 A. Schedule 5 compares present base rates to proposed 2020, 2021, and 2022
14 base rates, both with and without fuel costs. Schedule 6 is a monthly bill
15 comparison of the present and proposed 2020, 2021 and 2022 rates at
16 different usage levels

17
18 **III. RATE DESIGN**

19
20 **A. Pricing Objectives**

21 Q. DOES THE COMPANY USE PRICING OBJECTIVES TO GUIDE THE DEVELOPMENT
22 OF ITS PROPOSED CLASS REVENUE APPORTIONMENT AND RATE DESIGN?

23 A. Yes. The Company has continued to consider and use the following four
24 objectives to develop pricing proposals and establish rates that:

- 25 1. Produce total annual revenue that matches the corresponding revenue
26 requirement in order to allow the Company a reasonable opportunity to
27 earn its authorized return on investment;

- 1 2. Accurately reflect the resource costs of providing service and, where
- 2 appropriate, the market value of the service;
- 3 3. Provide sufficient flexibility in pricing levels and provisions for our
- 4 electric service to remain competitive in the broader energy market; and
- 5 4. Provide reasonable pricing by considering the importance of rate
- 6 continuity, customer understanding, revenue stability, and
- 7 administrative practicality.

8

9 Q. HOW DOES THE COMPANY APPLY THESE OBJECTIVES WHEN DESIGNING

10 RATES?

11 A. The first objective is a requirement that accurately matches proposed rates to

12 the proposed total revenue requirement. To equitably achieve this

13 requirement and provide price incentives for the economically efficient use of

14 resources, the starting point of the rate design process is examining and using

15 electric service costs by customer class and rate component. From this

16 objective cost basis, we consider and balance the remaining objectives

17 according to circumstances to determine a proposed rate design that is

18 reasonable and fair for all customers.

19

20 **B. Class Revenue Apportionment**

21 Q. WHAT PROCESS WAS USED TO DEVELOP THE PROPOSED CLASS REVENUE

22 APPORTIONMENT?

23 A. Consistent with our application of pricing objectives, the starting point for

24 proposed class revenue apportionment is the cost responsibility for each

25 customer class. Class cost responsibility is determined by the Class Cost of

26 Service Studies (CCOSS) sponsored by Company witness Mr. Michael A.

1 Peppin. The resulting cost increases by class are then considered individually
 2 and relative to the total retail increase to consider moderation adjustments.

3
 4 Q. WHAT ARE THE CLASS COST RESPONSIBILITIES AND PROPOSED CLASS
 5 INCREASES IN THIS CASE?

6 A. Table 4 shows the CCOSS class cost responsibilities and the proposed class
 7 apportionment for the test year 2020, and the plan years 2021 and 2022.

8
 9 **Table 4**

10 **Cost of Service and Proposed Revenue Apportionment (\$ Thousands)**

11 NSPM-Minnesota Electric Jurisdiction

Class	Present Revenue	Cost		Proposed Revenue	
		Amount	Increase	Amount	Increase
TY 2020					
Residential	\$1,165.8	\$1,258.1	7.92%	\$1,253.8	7.55%
Non-Demand	\$109.4	\$118.4	8.21%	\$117.9	7.77%
C&I Demand	\$1,818.5	\$1,914.4	5.27%	\$1,919.7	5.56%
Lighting	\$26.7	\$30.1	12.70%	\$29.7	11.13%
Total	\$3,120.4	\$3,321.0	6.43%	\$3,321.0	6.43%
PY 2021					
Residential	\$1,148.0	\$1,306.4	13.79%	\$1,299.1	13.16%
Non-Demand	\$108.3	\$122.8	13.43%	\$122.2	12.88%
C&I Demand	\$1,797.2	\$1,966.3	9.41%	\$1,974.6	9.87%
Lighting	\$26.7	\$31.3	17.56%	\$30.9	15.98%
Total	\$3,080.2	\$3,426.8	11.25%	\$3,426.8	11.25%
PY 2022					
Residential	\$1,148.0	\$1,361.7	18.62%	\$1,351.7	17.75%
Non-Demand	\$107.4	\$126.0	17.30%	\$125.4	16.76%
C&I Demand	\$1,786.6	\$2,013.5	12.70%	\$2,024.4	13.31%
Lighting	\$26.7	\$32.2	20.51%	\$31.8	19.17%
Total	\$3,068.7	\$3,533.4	15.14%	\$3,533.4	15.14%

25 *Amounts may not total due to rounding.

26

1 Q. WHAT IS THE BASIS FOR THE PROPOSED CLASS APPORTIONMENTS IN TABLE 4?

2 A. The basis for all years was a 75 percent movement to cost for all customer
3 classes. This is a moderate proposal that also provides a significant movement
4 to cost. This reasonable progress closer to cost is possible because there were
5 progressive movements to cost in past rate cases.

6

7 Q. HOW DO YOU MEASURE PROPOSED CLASS MOVEMENT TO COST?

8 A. This measurement looks at the difference between class increases set at the
9 average retail increase (no movement to cost) and at the class cost-based
10 increase from the CCOSS (full movement to cost). As a hypothetical example
11 with an average retail increase of 6 percent and a class cost increase of 10
12 percent, the potential cost movement range is 4 percent (10 percent less 6
13 percent). In this example, a proposed 9 percent class increase would represent
14 a 75 percent movement to cost, calculated as 9 percent less 6 percent (3
15 percent of the full 4 percent range) divided by the full range of 4 percent.

16

17 Q. CAN A PROPOSED REVENUE APPORTIONMENT BE ADJUSTED FOR A DIFFERENT
18 FINAL REVENUE REQUIREMENT APPROVED BY THE COMMISSION?

19 A. Yes. The proportional class revenue responsibilities that are represented by a
20 proposed class revenue apportionment at particular total retail increase
21 amount can be applied to another retail revenue requirement. This
22 proportional factoring approach is reasonable and has been previously used
23 for Company compliance filings to accurately maintain a Commission
24 approved class revenue apportionment at a different rate level. This approach
25 can also accommodate revisions to class cost allocations or approved percent
26 movements to cost, and updated sales and revenues.

27

1 **C. Low Income Discount**

2 Q. DOES THIS RATE CASE FILING CONTINUE TO INCLUDE THE RECOVERY OF LOW
3 INCOME PROGRAM COSTS THROUGH BASE RATES?

4 A. Yes. In compliance with the Commission’s September 26, 2014 Order in
5 Docket No. E002/M-04-1956 regarding amended Minn. Stat. § 216B.16,
6 subd. 14, this filing recognizes our Base low income program funding in base
7 rates. The primary component of the Low Income Energy Discount Rider is
8 the Discount (Base) program, which provides a \$15 monthly discount to
9 qualifying customers. Other Rider components are the PowerOn program and
10 the Medical Affordability program. Present and proposed revenue includes
11 Base program benefits of \$10,010,000 that are paid as a monthly discount to
12 participating customers. This customer discount amount is offset by matching
13 Base program surcharges per monthly customer bill for a zero net retail
14 revenue impact. This information is included in detailed rate revenue
15 determinations (Sales and Revenue by Rate Schedule and Component, filed in
16 Required Information, Volume 3).

17
18 Q. DOES THE DETAILED RATE REVENUE DETERMINATION PRESERVE THE
19 CURRENT CLASS COST ALLOCATION FOR PROGRAM FUNDING?

20 A. Yes. As background, the current program surcharges, which vary by customer
21 classification, are currently recovered as an itemized rider charge on customer
22 bills as a monthly fixed surcharge in the same form as the monthly customer
23 charge. We recognized the current weighted customer charge allocation
24 method for present rate revenue and retained it for proposed rate revenue
25 using proposed customer charge amounts. The Base low income program
26 surcharges were added to customer charges in the detailed rate revenue
27 determination to recognize this funding allocation.

1 Q. HOW HAVE BASE PROGRAM SURCHARGES BEEN UPDATED FOR PROPOSED
2 RATES?

3 A. The class allocation of Base program surcharges was updated to reflect
4 proposed customer charges, using the Commission-approved customer charge
5 weighted allocation methodology established in Docket No. E002/M-10-854.
6 The following table compares present and proposed class Base program
7 surcharges for the 2020 test year.

8

9

Table 5

10

Base Program Surcharges – TY 2020

11

Customer Class	Present	Proposed
Residential	\$0.58	\$0.61
C&I Non-Demand	\$0.78	\$0.74
C&I Demand	\$2.34	\$1.75

12

13

14

15

16

D. Rate Design Proposals

17

Q. IS THE COMPANY PROPOSING MANY SIGNIFICANT RATE DESIGN CHANGES TO
18 CURRENTLY ESTABLISHED TARIFFS IN THIS CASE?

18

19

A. No. Proposed revisions to established tariffs generally include only minor
20 changes to the relationship between rate components, without significant
21 changes to main rate design structures. More significant changes, including a
22 proposed new time-of-use tariff for C&I Demand customers, are described in
23 the following sections.

23

24

25

1. Residential and Small Commercial Customer Charges

26

Q. DOES THE COMPANY PROPOSE TO INCREASE THE MONTHLY CUSTOMER
27 CHARGE FOR RESIDENTIAL AND SMALL COMMERCIAL CUSTOMERS?

27

1 A. Yes. We propose a \$1.50 increase to the fixed monthly customer charge for
2 residential and small commercial customers. This proposal is for the
3 following rate schedules: Residential Service, Residential Time of Day Service,
4 Small General Service, and Small General Time of Day Service. This is a
5 conservative increase designed to more accurately represent the fixed costs of
6 providing service to customers. The objective of this proposal is to improve
7 fairness to all customers and to maintain historical relationships between fixed
8 and variable rates.

9

10 Q. WOULD A SUBSTANTIAL SHARE OF FIXED CUSTOMER-RELATED COSTS
11 CONTINUE TO BE RECOVERED THROUGH ENERGY RATES AS A CONSERVATION
12 INCENTIVE, WITH PROPOSED CUSTOMER CHARGES?

13 A. Yes. The present weighted average customer charge for Residential Service is
14 \$8.74, based on four charge levels ranging from \$8.00 to \$12.00. The
15 comparable proposed weighted average customer charge is \$10.24, which is
16 substantially less than the 2020 test year fixed customer-related cost of \$16.73
17 per month.

18

19 Q. IS THE PROPOSED INCREASE ALSO SUPPORTED FROM A MARGINAL COST
20 PERSPECTIVE?

21 A. Yes. The Company commissioned a marginal cost study of customer and
22 local distribution costs to provide an additional perspective on the level of
23 customer charges. A summary of the conclusions of this study is provided in
24 Exhibit____(SVH-1), Schedule 7. This shows the marginal cost for the
25 residential customer charge related cost component is \$22.35 per month.

26

1 Q. HAVE RESIDENTIAL AND SMALL COMMERCIAL CUSTOMER CHARGES BEEN
2 INCREASED IN RECENT YEARS?

3 A. No. These customer charges remained unchanged in the Company's last two
4 general rate cases, meaning the last increase in these classes' customer charges
5 was six years ago. A modest increase in these charges at this time will better
6 reflect cost and better maintain the historical relationships between fixed and
7 variable rates for these customers.

8

9 *2. Residential Service*

10 Q. PLEASE DESCRIBE THE PROPOSED RATE DESIGN FOR RESIDENTIAL SERVICE.

11 A. No significant changes are proposed to the rate design for Residential Service.
12 The overall 2020 test year proposed increase of 7.55 percent for Residential
13 Service is distributed as a 7.65 percent increase for standard non-heating
14 service and of 5.15 percent increase for electric space heating service, which
15 corresponds with the cost of service differential.

16

17 *3. Residential Controlled Air Conditioning and Water Heating Rider*

18 Q. PLEASE DESCRIBE THE COMPANY'S PROPOSED REVISIONS TO THE
19 RESIDENTIAL CONTROLLED AIR CONDITIONING AND WATER HEATING
20 RIDER, A DIRECT LOAD CONTROL PROGRAM KNOWN AS SAVER'S SWITCH.

21 A. Residential Service customers with central air conditioning have the option of
22 participating in our Saver's Switch program that provides a discount for
23 control of their air conditioner, which is provided through the Residential
24 Controlled Air Conditioning and Water Heating Rider. An additional discount
25 is available to customers with an electric water heater that can also be
26 controlled.

27

1 The current rate design provides a 15 percent discount on energy and fuel cost
2 charges during the four summer season months for controlled air-
3 conditioning. If participating air-conditioning customers also have an electric
4 water heater, an additional 2 percent discount during every month is available
5 for controlled water heating. This design was established when the base cost
6 of fuel was included in energy rates. When all fuel costs were moved from
7 base energy rates into a separate fuel cost charge in 2007, it became necessary
8 to apply the percent discounts to both energy and fuel charges to retain the
9 same discount amounts, substantially increasing administrative complexity.

10
11 The discount levels were created when energy rates were significantly lower
12 than today and the cost of new peaking generation was much higher than it is
13 today. As result, the discount amount for program participation is no longer
14 consistent with the benefits provided by this long-standing demand response
15 option. In addition, in 2017 we began offering an additional residential load
16 control program, AC Rewards, which provides customers the opportunity to
17 install smart thermostats at a discounted cost in their homes and control
18 demand through the thermostat itself with a customer incentive of \$25 per
19 summer.

20
21 The Company proposes to adjust the Residential Controlled Air Conditioning
22 and Water Heating Rider to more closely align program incentives with
23 customer and utility benefits. We propose to revise the air-conditioning
24 incentive structure to a flat monthly bill credit of \$10 for the months of June-
25 September (\$40 per year). For controlled electric water heating, the additional
26 incentive is proposed as \$2 every billing month (\$24 per year). This proposed

1 rate structure revision, with the corresponding credit levels, was approved by
2 the Commission for the Residential Time of Use Pilot Program.

3
4 Q. HOW DO CURRENT INCENTIVES FOR THE SAVER'S SWITCH PROGRAM COMPARE
5 TO PROPOSED CREDITS?

6 A. The majority of active Saver's Switch program participants today receive an
7 annual credit between \$40 and \$60. For the year 2017, the median annual
8 credit was \$53.78. Although the proposed \$40 annual credit is lower, it is
9 commonly used for comparable direct load control programs across the
10 country and has been successfully used for years in our Colorado jurisdiction.
11 Our higher energy use customers will see a significant drop in their incentive,
12 but these customers may be better served under a different demand response
13 program such as our AC Rewards program that controls air-conditioning load
14 through a smart thermostat and also has the benefit of giving customers more
15 discretion over their controllable load.

16
17 Q. WHAT IS THE VALUE OF THE SAVER'S SWITCH PROGRAM?

18 A. Our recent analysis of the Saver's Switch program, including avoided
19 generation capacity and energy costs on the system, and the costs of the
20 program, including the cost of switches, advertising costs to recruit new
21 participants and administration costs to operate the system, show an annual
22 net benefit of approximately \$30 per customer switch.

23
24 Although this analysis indicates that the appropriate credit could be less than
25 the proposed \$40 annual credit, we are continuing efforts to make the
26 program more cost-effective by performing annual tests on the equipment to
27 maximize effectiveness and to pursue cost savings in the switch equipment.

1 The ability of the residential Saver's Switch program to control 400 MW of
2 load may also prove more valuable over time as a hedge against possible future
3 spikes in capacity prices. The Company is also looking at other control
4 strategies across all of its demand response programs to integrate renewables,
5 provide load relief at the distribution level, and to minimize energy costs.
6 Work to appropriately assess these emerging value streams is still in the early
7 stages, but these value streams may be significant in the future. For these
8 reasons, the Company believes a \$40 annual credit per customer switch is
9 appropriate.

10
11 Q. WHAT IS THE EXPECTED IMPACT OF THE PROPOSED CHANGE TO THE
12 INCENTIVE AMOUNT AND STRUCTURE FOR THE SAVER'S SWITCH PROGRAM?

13 A. Although we do not anticipate a loss of Saver's Switch customers as a result of
14 this incentive change, the final result is difficult to predict.¹ Some customers
15 may find it helpful to have a defined fixed credit amount rather than a
16 percentage discount, which may encourage customers who have resisted
17 participation in the past. Customers with lower energy usage will also benefit
18 from the proposed incentive design. Additionally, customers that are no
19 longer interested in participating in Saver's Switch will be offered the option
20 of participating in AC Rewards which includes a discounted smart thermostat.

21

¹ Florida Power and Light completed a transition to a lower incentive for direct load control (similar to Saver's Switch) in 2015. They found approximately 20 percent of customers did move off the rate; however, the program today is the only program in the nation larger than Xcel Energy's program. See Florida Power and Light's filings at: <http://www.floridapsc.com/library/filings/2015/05165-2015/05165-2015.pdf#search=Docket%20No.%20150085-EG>.

1 4. *C&I Demand Class Rate Design*

2 a. *Base Energy and Demand Rates*

3 Q. HOW DID YOU DEVELOP THE PROPOSED ENERGY AND DEMAND RATES FOR
4 THE C&I DEMAND CLASS?

5 A. The primary consideration was maintaining a similar ratio between demand
6 and energy rates as in present rates to limit rate design changes. This also has
7 the effect of maintaining similar percent bill increases at all customer load
8 factor levels, as shown in Schedule 6 for load factors defined at the 200, 400,
9 and 600 hours-use levels.

10
11 b. *Interruptible Service*

12 Q. IS THE COMPANY PROPOSING AN INCREASE IN THE INTERRUPTIBLE SERVICE
13 DISCOUNTS?

14 A. Yes. A moderate increase is proposed for interruptible service discounts.
15 This provides proposed increases similar to firm service customers. The
16 proposed discounts reinstate the levels that were established in rates effective
17 January 2019, which were reduced with other rate components when rates
18 were reduced June 2019 for compliance with the Federal Tax Cut and Jobs
19 Act, with the only exception being the discount for the lowest value service
20 distinction of Tier 2, Performance Factor A. The effective discount for
21 interruptible service is the difference between firm and controllable demand
22 charges. The proposed increase to the total amount of demand charge
23 discounts is 4.56 percent. The following table compares present and proposed
24 discounts by Tier and Performance Factor (PF) category of interruptible
25 service.

26

Table 6
Present and Proposed Interruptible Discounts
NSPM-Minnesota Electric Jurisdiction
(Average Monthly Discount per kW)

Tier-PF	2-C	2-B	2-A	1-C	1-B	1-SN
Present	\$4.58	\$4.06	\$3.04	\$5.36	\$4.77	\$5.83
Proposed	\$4.80	\$4.26	\$3.13	\$5.62	\$5.00	\$6.12
Increase	\$0.22	\$0.20	\$0.09	\$0.26	\$0.23	\$0.29
Increase %	4.8%	4.9%	3.0%	4.8%	4.8%	5.0%

Q. ARE ANY CLARIFYING RULE ADDITIONS PROPOSED FOR THE RULES FOR APPLICATION OF PEAK CONTROLLED SERVICES TARIFF?

A. Yes. Two additions are proposed. The first addition is proposed rule no. 4 requiring that customers provide reliable contact information for the purpose of receiving control period notifications. This is an essential requirement that has largely been followed by customers without a formal rule because it is also in their best interest to avoid control failure charges. However, some recent difficulty with reliably contacting all customers indicates a formal rule may be a helpful rule addition.

The second clarification is proposed rule no. 8 regarding new Company testing requirements that are required by the Midcontinent Independent System Operator (MISO). In their FERC filing in Docket ER19-651, MISO stated the following about testing requirements:

This proposal, along with the concomitant LMR (Load Modifying Resources) availability filing (Docket ER19-650), is expected to provide MISO’s operators with greater certainty regarding the ability of DR (Demand Response) to curtail load during an emergency, by requiring an annual demonstration that may be satisfied by meeting a curtailment instruction or submitting the results of a real power

1 test for such resources prior to qualification in the Planning
2 Resource Auction. MISO believes these enhancements are critical
3 given the increasing operational dependence on LMRs to maintain
4 system reliability and resilience.
5

6 Real power tests will provide more certainty regarding the level of load relief
7 that will be available during MISO emergency events and the proposed rule
8 will document this requirement.
9

10 *c. Real Time Pricing*

11 Q. DO PROPOSED TARIFFS INCLUDE REAL TIME PRICING (RTP) SERVICE?

12 A. No. The Company proposes cancelling the RTP Service tariff, which is more
13 of a complicated time-of-use rate design with pre-established pricing than a
14 pure RTP design based on market conditions. The current RTP was
15 established in 2004 and has never attracted more than a couple of customers
16 at the same time. Currently, there is one customer with three accounts that
17 began RTP service in mid-2018. This customer is aware of the Company's
18 proposed cancellation of RTP service.
19

20 Q. WHY IS THE COMPANY PROPOSING TO CANCEL RTP SERVICE?

21 A. The essential design and rate relationships in the RTP tariff have remained
22 unchanged since 2004, and are in need of a comprehensive refresh requiring
23 substantial analysis. Cancelling RTP Service would allow more productive use
24 of resources for rate designs with greater potential and appeal to customers,
25 beyond the single customer currently taking RTP service, such as the
26 proposed new three-period C&I TOU tariff.
27

1 *d. Voltage Discounts*

2 Q. ARE YOU PROPOSING ANY REVISIONS TO THE VOLTAGE DISCOUNTS THAT ARE
3 A PART OF THE C&I DEMAND TARIFFS?

4 A. Yes. Proposed voltage discounts are shown in Exhibit___(SVH-1), Schedule
5 8, pages 1 through 4. Demand charge voltage discounts were updated based
6 on current cost levels and energy charge voltage discounts were updated for
7 the proposed level of base energy and fuel charges.

8
9 *5. Proposed General Time of Use Service Tariff*

10 Q. DOES THE COMPANY CURRENTLY HAVE A TIME OF USE (TOU) TARIFF FOR
11 C&I DEMAND CUSTOMERS?

12 A. Yes. The existing General Time of Day Service tariff is a two-period time-of-
13 use rate design that was originally established around 1980, using a 12-hour
14 on-peak period of 9 a.m. to 9 p.m. during weekdays. An Energy Charge
15 Credit provision that was later added to the tariff efficiently provides a partial
16 three-period TOU price signal by lowering the price of energy that typically
17 occurs in the middle of the 12 hour off-peak period. The interruptible service
18 counterpart to this tariff is the Peak-Controlled Time of Day Service tariff.
19 These tariffs are optional to customers with loads under 1,000 kW and
20 required for customers with loads above that level. Relative to the C&I
21 Demand class, these tariffs are used by 11 percent of customers and represent
22 54 percent of the kWh sales.

23
24 Q. DOES THE COMPANY HAVE A PROPOSAL FOR A NEW C&I DEMAND TOU
25 TARIFF IN THIS CASE?

26 A. Yes. A new three-period TOU tariff is proposed in the Direct Testimony of
27 Company witness Mr. Lon M. Huber. This proposed tariff is envisioned to

1 replace the current two-period when that is ultimately made feasible after
2 metering and other requirements have been satisfied.

3
4 Q. PLEASE DISCUSS SOME OF THE ISSUES AND CHALLENGES ASSOCIATED WITH
5 DEVELOPING AND IMPLEMENTING THE PROPOSED NEW THREE-PERIOD TOU
6 TARIFF.

7 A. There are several technical issues to resolve to establish and transition to a
8 new TOU tariff with different TOU periods that is consistent with present
9 tariffs. Many of the challenges are associated with the additional complexity of
10 demand billing and the factors that affect demand quantities, as opposed to
11 the relatively straightforward design of an energy-only TOU tariff. Present
12 firm service demand billed tariffs include a series of three quantity modifiers
13 between the meter reading and the billed unit quantities. First, to recover the
14 incremental cost for low power factor service, metered actual peak demand
15 readings are increased by a factor that is applied if a power factor is less than
16 90 percent, with the result referred to as the adjusted demand. Second, a 50
17 percent demand ratchet is applied as a minimum billed demand quantity. The
18 minimum current billing month kW demand quantity is 50 percent of greatest
19 adjusted demand in the preceding eleven months. Third, as a protection for
20 customers with very low load factors, a demand limiter may be applied to
21 reduce the billed kW demand quantity. The demand limiter provision, which
22 has become more prominent with electric vehicle charging, limits the billed
23 kW demand to a quantity equal to total kWh energy use divided by 100 hours
24 use. All of these kW demand modifiers that affect final billed demand
25 quantities, and which are jointly embedded in our billing history records, will
26 need to be separately analyzed and reconciled to different TOU periods and
27 rate provisions. For example, the proposed new TOU tariff removes the

1 demand ratchet provision for the on-peak and mid-peak demand charges.
2 Determining comparable billed demand quantities is essential to calibrate a
3 new TOU tariff to the same revenue level as existing tariffs, such that the new
4 rates are consistent with the new billing unit quantities.

5
6 Q. IS THE GENERAL PROCESS OF DETERMINING CONSISTENT BILLING DEMAND
7 QUANTITIES FOR A NEW TARIFF MORE COMPLEX THAN DETERMINING ENERGY
8 BY PERIOD?

9 A. Yes. Billed demand is based on individual customer maximum loads,
10 measured as 15-minute average load intervals every five minutes. Determining
11 total class demand quantities requires summing individual customer detail by
12 TOU periods, while by comparison, energy sales by TOU period can be
13 determined by total class hourly load forecasts. This individual customer
14 demand information is not available for most customers with currently
15 installed metering equipment. Ideally, advanced metering with load interval
16 recording would be installed and in operation for at least a year, to provide the
17 information required to precisely estimate the billing demands associated with
18 a new TOU tariff.

19
20 Q. ARE THERE OTHER TECHNICAL CHALLENGES TO IMPLEMENTING A NEW
21 THREE-PERIOD TOU TARIFF?

22 A. Yes. Enhancing our billing system to handle interval data and a third rate
23 season will take some development time, as will adding comparison billing
24 capability to contrast old and new TOU tariffs for bill comparison and bill
25 impact protection limits. Another issue is modifying or using the current two-
26 period fuel cost charge with a three-period tariff. Finally, in order to minimize

1 billed demand modifiers, it may be appropriate to develop a separate rate
2 provision for low power factor charges.

3
4 Q. WILL THE PEAK-CONTROLLED SERVICE TARIFF REQUIRE MODIFICATIONS TO
5 ACCOMMODATE A THREE-PERIOD TOU RATE DESIGN?

6 A. Yes. Converting the load control incentive to a separate credit per kW, from
7 the present design of controllable demand rates discounted from firm demand
8 rates, will be necessary to reasonably structure the added TOU complexity
9 into the Peak-Controlled Service tariff. This would not change the value of
10 incentives and would also more directly identify the value of controllable loads
11 for customers.

12
13 Q. WILL A CUSTOMER EDUCATION PLAN BE NECESSARY FOR A TRANSITION TO A
14 THREE-PERIOD TOU RATE DESIGN?

15 A. Yes. The additional precision of a three-part TOU design requires additional
16 complexity that must be well explained and understood by customers. For
17 example, customer engagement meetings confirmed that the relationship
18 between mid-peak and on-peak billed demand determinations and billing was
19 a difficult area to clearly explain.

20
21 Q. IS THE PROPOSED NEW THREE-PERIOD GENERAL TOU TARIFF NOW READY TO
22 BE USED FOR BILLING PURPOSES?

23 A. No. There are three primary reasons why the proposed TOU tariff is not
24 ready to use for billing customers today. First, available AMI metering is
25 necessary to both calibrate and bill a new TOU tariff. Some limited capability
26 for additional interval metering now exists but is not cost effective to
27 significantly expand to new customers. The testimony of Company witness

1 Ms. Kelly A. Bloch discusses the Company plan to begin the rollout of AMI
2 meters in 2019 (as part of the residential TOU pilot) with the rollout
3 continuing through 2024. Second, while the proposed new TOU tariff
4 provides indicative pricing, significant further information analysis and testing
5 is required to fully calibrate it to the appropriate comparable cost recovery
6 level of other C&I Demand rates. Finally, the impact of the new tariff and
7 associated provisions should first be accurately measured using customer load
8 interval information and observed to ensure individual customer bill impacts
9 are reasonable.

10
11 Q. WHY IS TESTING AND CALIBRATION NECESSARY TO ENSURE THE RATES
12 PROVIDE A CONSISTENT LEVEL OF COST RECOVERY AFTER IT HAS BEEN MADE
13 GENERALLY AVAILABLE?

14 A. As indicated above, the proposed new tariff has complex impacts on both
15 quantities and pricing. We have made a substantial effort developing the
16 proposed indicative pricing, and significant additional analysis and testing is
17 required for any type of significant customer application. Small calibration
18 errors or differences could have material inappropriate impacts on customer
19 bills and total cost recovery by the Company. We recommend using interval
20 load data from customers as AMI metering is installed to conduct internal bill
21 impact analysis through a comparison billing process with the current two-
22 period TOU tariff to test new quantities and pricing, before a new TOU tariff
23 is generally available to customers. If comparison billing analysis indicates
24 necessary design or assumption revisions, those changes can be made before
25 general rate implementation to provide stable pricing for customers.

26

1 Q. ARE THERE OTHER ADVANTAGES TO CONDUCTING A COMPARISON BILLING
2 PROCESS BEFORE THE GENERAL AVAILABILITY OF A SIGNIFICANTLY
3 DIFFERENT NEW TARIFF DESIGN?

4 A. Yes. This testing will provide critical information on the magnitude and range
5 of bill impacts for individual customers. It will also provide an opportunity
6 for design adjustments that may be essential to maintain and improve
7 customer satisfaction. An evaluation of customer impacts will provide a more
8 informed evaluation of the reasonableness of rate impacts and whether any
9 rate moderation steps would be appropriate.

10

11 Q. HOW DOES THE COMPANY PROPOSE TO TEST AND CALIBRATE THE NEW
12 RATES?

13 A. The Company can progressively conduct comparison billing of customers as
14 AMI metering is installed. During this comparison billing process, actual
15 customer billing would continue on the current tariff, with internal
16 comparison billing on three-period TOU determined using customer interval
17 usage. This testing and calibration phase of the final rate development would
18 continue during the AMI meter roll out. The new General Service TOU tariff
19 would then be calibrated and be ready to use for billing after the completion
20 of AMI installations. The Company recommends submitting a more detailed
21 implementation plan in tandem with its final compliance filing at the
22 conclusion of this rate case.

23

24 Q. WOULD ELECTRIC VEHICLE (EV) CHARGING PROVIDE A REASONABLE
25 OPPORTUNITY FOR TESTING A PROPOSED THREE-PERIOD TOU TARIFF BEFORE
26 REQUIREMENTS ARE MET FOR GENERAL AVAILABILITY?

1 A. Yes. Application of the tariff to new EV charging loads would provide the
2 most practical opportunity for early testing of the rate design. Concerns about
3 revenue neutrality, or consistency with current tariffs, would be minimized by
4 the fact that EV charging would represent new load. Bill impacts may also be
5 easier to anticipate with the specific TOU load characteristics of EV charging
6 better known in advance. Another favorable consideration would be the
7 relatively small number of potential customers and corresponding energy
8 usage, which would minimize revenue impacts and incremental metering
9 costs. Although the load profile and price response of EV charging loads
10 would not be representative of the general population of C&I Demand
11 customers, we anticipate that significant useful experience would be gained by
12 this type of limited rate application.

13
14 *6. Business Incentive and Sustainability (BIS) Rider Tariff*

15 Q. THE COMPANY IS PROPOSING A NUMBER OF CHANGES TO ITS BIS RIDER. CAN
16 YOU PLEASE PROVIDE A HIGH LEVEL OVERVIEW OF THE BIS RIDER?

17 A. The BIS Rider is an economic development incentive that is available to new
18 and existing demand-metered commercial and industrial customers with new
19 or additional load of 350 kW or greater. Enrolled customers receive discounts
20 on their demand-metered rate schedule in years one to five and return to
21 normal charges in year six. The Company proposed the BIS Rider in Docket
22 No. E002/GR-12-961 to address the need to grow load efficiently to
23 contribute to the overall fixed costs of the system. The BIS Rider requires
24 among other things (1) that prospective customers have an energy audit and
25 participate in our energy efficiency programs to ensure the load growth is
26 efficient and (2) an analysis of the necessary investment to serve a prospective
27 BIS Rider customer to ensure that other customers are not subsidizing an

1 expansion by paying for incremental distribution investments that are not
2 justified by the expected incremental revenues. There are currently eight
3 customers on the BIS Rider. The BIS Rider tariff permits the Company to
4 seek recovery of the BIS Rider discounts. The final rates compliance filing for
5 our last rate case, Docket No. E002/GR-15-826, included recovery of
6 \$379,000 in BIS Rider discounts associated with qualifying actual year 2016
7 billed kW.

8
9 Q. WHY IS THE COMPANY PROPOSING CHANGES TO THE BIS RIDER IN THIS
10 PROCEEDING?

11 A. Pursuant to the terms of the BIS Rider, after the Company signs an electric
12 service agreement (ESA) with a customer to be served under the BIS Rider,
13 we must make a compliance filing with the Commission in Docket No.
14 E002/GR-12-961. On July 29, 2019, the Company made such a compliance
15 filing for a BIS Rider ESA with RMS Company (RMS). On August 28, 2019,
16 the Minnesota Department of Commerce provided comments on the
17 compliance filing, recommending that the specific BIS Rider ESA be deemed
18 approved, but suggesting the Company clarify the language regarding delivery
19 points in its BIS Rider tariff. In a letter dated September 3, 2019, the
20 Company agreed to do so. We are proposing the tariff changes in the course
21 of this rate case so that a broad range of stakeholders have the ability to
22 review and comment on those proposed changes.

23
24 Q. PLEASE DESCRIBE THE LANGUAGE REGARDING DELIVERY POINTS IN THE BIS
25 RIDER TARIFF AND THE CLARIFICATION THAT WAS NEEDED.

26 A. Under the header Qualified Billing Demand, for both new and existing
27 customers, the BIS Rider tariff says that Qualified Billing Demand is a

1 minimum of 350 kW “at a single delivery point.” However, this language does
2 not explicitly address the reality that some of our large C&I customers have
3 multiple delivery points and more than one of those delivery points may
4 qualify for the BIS Rider, just as RMS does. RMS is receiving BIS Rider
5 discounts for their Qualified Billing Demand at two delivery points. The
6 language added to Sheet No. 139 explicitly addresses BIS Rider tariff eligibility
7 in situations where a customer has multiple delivery points. The proposed
8 tariff update states: the Qualified Billing Demand under this Rider must be a
9 minimum of 350 kW at any single delivery point. A customer may receive the
10 rate at multiple delivery points so long as each delivery point independently
11 qualifies.

12
13 Q. DOES THE COMPANY PROPOSE ANY OTHER CHANGES TO THE BIS RIDER
14 TARIFF?

15 A. Yes, the Company proposes three other miscellaneous changes to the BIS
16 Rider tariff:

17 1. Under the New Customers and Existing Customers headings, the
18 Company proposes language to clarify that a customer can receive the
19 BIS Rider discount multiple times, so long as they have the necessary
20 increase in Qualified Billing Demand and the delivery point is not
21 currently receiving service under the BIS Rider.

22 2. Under the Right to Refuse Service heading, the Company proposes to
23 modify the Company’s right to refuse service, but retains a customer’s
24 ability to get service under the tariff if they contribute to the capital
25 costs necessary to serve them. I note that when the Company makes its
26 BIS Rider compliance filings, it must provide information about the

1 impact the BIS Rider had on incentivizing the new energy
2 consumption.

- 3 3. Under the Electric Service Agreement heading, the Company proposes
4 to strike the reference to this “Stimulation” Rider as that term is not
5 used elsewhere in the tariff.
6

7 Q. WHY ARE THE COMPANY’S PROPOSED CHANGES REASONABLE?

8 A. It is important to remember that the addition of new, efficient load is
9 beneficial to the Company’s entire system and the Company’s entire customer
10 base because it allows fixed system costs to be spread more broadly. The BIS
11 Rider tariff changes the Company proposes here continue to encourage new,
12 efficient growth by clarifying two specific instances where customers may
13 qualify for the BIS Rider, but modify the Company’s right to refuse service so
14 that the BIS Rider remains a tool focused on incentivizing new growth that
15 would not have occurred absent the discount, as originally contemplated.
16

17 7. *Street Lighting*

18 Q. DOES THE PROPOSED INCREASE FOR THE LIGHTING CLASS VARY BY RATE
19 SCHEDULE TO RECOGNIZE COST DIFFERENTIALS BY SUBCATEGORY WITHIN
20 THE LIGHTING CLASS?

21 A. Yes. The proposed percent revenue increases for each lighting rate schedule
22 vary recognize lighting sub-category cost differences in the CCOSS. Street
23 lighting for municipal customers includes the System and Energy service cost
24 categories. System service is full service lighting that includes the lighting
25 system, energy, maintenance and repairs. The Energy-only category includes
26 the flat rate Street Lighting Energy Service (Closed) rate schedule and the
27 Street Lighting Energy Service – Metered rate schedule. Protective lighting

1 service is full service security lighting that is available for residential and
2 commercial customers. The proposed total lighting class increase is 11.1
3 percent for test year 2020. The higher relative cost increase indicated by the
4 CCOSS for System service was moderated to a proposed increase of 14.6
5 percent. The corresponding proposed lighting increases are 6.3 percent for
6 Protective lighting and 2.1 percent for the Energy-only lighting category.

7
8 Q. WHAT BENEFITS HAVE BEEN EXPERIENCED FROM THE COMPANY'S PROGRAM
9 TO CONVERT OLDER TECHNOLOGY LIGHTING FIXTURES TO LIGHT EMITTING
10 DIODE (LED) TECHNOLOGY, FOR COMPANY-OWNED LIGHTING PROVIDED
11 THROUGH THE STREET LIGHTING SYSTEM SERVICE TARIFF?

12 A. The Company has largely completed its mass conversion program to replace
13 High Pressure Sodium (HPS) fixtures with much more energy efficient LED
14 fixtures, which has reduced energy usage for this lighting by over 50 percent.
15 This directly reduces fuel costs, with an estimated annual savings of over
16 \$600,000, as detailed in Exhibit___(SVH-1), Schedule 9. The new and more
17 durable LED fixtures have also reduced lighting outages by 88 percent, as
18 discussed in the testimony of Ms. Bloch.

19
20 Q. HAS THE REDUCED COST FROM THE LOWER ENERGY USAGE OF THESE LED
21 FIXTURES BEEN RECOGNIZED?

22 A. Yes. Lower LED energy usage also provides the benefit of reducing lighting
23 costs through lower class demand and energy allocations. This is recognized in
24 the CCOSS sponsored by Mr. Peppin. The estimated lighting cost reductions
25 are \$1,771,000 in energy-related costs and \$903,000 in demand-related costs
26 from the LED fixture conversion program.

27

1 8. *Fuel Clause Rider*

2 Q. HAS THE PROPOSED FUEL CLAUSE RIDER BEEN UPDATED FOR THE TEST YEAR
3 2020?

4 A. Yes. The Fuel Adjustment Factor section of the Fuel Clause Rider was
5 updated to be consistent with test year 2020 information. The Fuel
6 Adjustment Factor Ratios by Service Category were updated to test year 2020
7 based on corresponding updates to Class Cost Ratios and TOD Ratios. These
8 updates were determined using the method approved by the Commission in
9 previous rate cases. The development of these updates is shown in
10 Exhibit____(SVH-1), Schedule 10.

11
12 **E. Development of 2021 and 2022 Rates**

13 Q. DO THE 2021 AND 2022 RATES SHARE A COMMON RATE DESIGN?

14 A. Yes. The proposed rate design for plan years 2021 and 2022 is consistent with
15 the rate design for test year 2020.

16
17 **IV. CONCLUSION**

18
19 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

20 A. The Company’s proposed class revenue apportionment and rate design is
21 reasonable. It serves our pricing objectives that include cost-based pricing and
22 moderation in rate changes.

23
24 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

25 A. Yes, it does.

Statement of Qualifications and Experience

Steven V. Huso

Steve Huso is a Pricing Consultant with Xcel Energy, specializing in rate design and revenue forecasting for the utility operating subsidiaries of Xcel Energy.

Huso has 39 years of electric rate design experience and has sponsored rate design testimony in proceedings before state regulatory commissions in Minnesota, North Dakota, South Dakota, Wisconsin, and Colorado.

Huso has presented several papers on rate design and has a published book chapter on real time pricing rate design (ISBN: 0792378396). In 1999, he presented a series on industrial rate design at Taiwan Power Company. In 2018, he evaluated time of use pricing in Kenya as part of a National Association of Regulatory Utility Commissioners partnership exchange.

Huso received Bachelor of Arts degrees in Mathematics and Economics from St. Olaf College and a Master of Business Administration degree from the University of St. Thomas.

Minnesota Electric Rate Book - MPUC No. 2
2020 Proposed Tariff Sheets

Sheet No. 1-2, revision 11	Sheet No. 5-10.1, revision 5 *
Sheet No. 1-3, revision 18	Sheet No. 5-11, revision 34
Sheet No. 1-4, revision 18	Sheet No. 5-11.1, revision 8 *
	Sheet No. 5-12, revision 9 *
Sheet No. 3-1, revision 7 *	Sheet No. 5-13, revision 8 *
Sheet No. 3-1.1, revision 6	Sheet No. 5-14, revision 25
Sheet No. 3-2, revision 7 *	Sheet No. 5-15, revision 11 *
Sheet No. 3-2.1, revision 6 *	Sheet No. 5-21, revision 32
Sheet No. 3-3, revision 7	Sheet No. 5-22, revision 9
Sheet No. 3-3.1, revision 6 *	Sheet No. 5-23, revision 32
Sheet No. 3-4, revision 7 *	Sheet No. 5-24, revision 14 *
Sheet No. 3-4.1, revision 6 *	Sheet No. 5-24.1, revision 13
Sheet No. 3-5, revision 7	Sheet No. 5-26, revision 32
Sheet No. 3-5.1, revision 6	Sheet No. 5-27, revision 9
Sheet No. 3-6, revision 7	Sheet No. 5-28, revision 7 *
Sheet No. 3-6.1, revision 6 *	Sheet No. 5-28.1, revision 5 *
Sheet No. 3-7, revision 7	Sheet No. 5-29, revision 28
Sheet No. 3-7.1, revision 5 *	Sheet No. 5-30, revision 16
Sheet No. 3-8, revision 7 *	Sheet No. 5-31, revision 8 *
	Sheet No. 5-32, revision 6 *
Sheet No. 5-TOC-1, revision 14	Sheet No. 5-32.1, revision 5 *
Sheet No. 5-1, revision 32	Sheet No. 5-33, revision 14
Sheet No. 5-1.1, revision 9 *	Sheet No. 5-34, revision 4
Sheet No. 5-2, revision 32	Sheet No. 5-35, revision 3
Sheet No. 5-3, revision 12 *	Sheet No. 5-36, revision 9
Sheet No. 5-4, revision 6 *	Sheet No. 5-40, revision 23
Sheet No. 5-4.1, revision 2	Sheet No. 5-41, revision 19
Sheet No. 5-4.2, original *	Sheet No. 5-42, revision 6 *
Sheet No. 5-4.3, original *	Sheet No. 5-43, revision 6 *
Sheet No. 5-5, revision 20	Sheet No. 5-44, revision 18
Sheet No. 5-6, revision 17	Sheet No. 5-45, revision 26
Sheet No. 5-8, revision 3 *	Sheet No. 5-46, revision 13
Sheet No. 5-8.1, original *	Sheet No. 5-47, revision 7 *
Sheet No. 5-8.2, original *	Sheet No. 5-47.1, revision 6 *
Sheet No. 5-8.3, original *	Sheet No. 5-48, revision 8
Sheet No. 5-9, revision 31	Sheet No. 5-49, revision 7
Sheet No. 5-10, revision 8 *	Sheet No. 5-50, revision 7

* = No substantive changes to sheet, but included to provide complete tariff.

Minnesota Electric Rate Book - MPUC No. 2
2020 Proposed Tariff Sheets

Sheet No. 5-51, revision 9 *	Sheet No. 5-92, revision 20 *
Sheet No. 5-51.1, original *	Sheet No. 5-92.1, revision 8
Sheet No. 5-51.1, original *	Sheet No. 5-93, revision 8 *
Sheet No. 5-51.1, original *	Sheet No. 5-93.1, revision 23 *
Sheet No. 5-52, revision 9*	Sheet No. 5-93.1a, revision 8 *
Sheet No. 5-52.1, original *	Sheet No. 5-93.2, revision 20 *
Sheet No. 5-52.2, original *	Sheet No. 5-93.3, revision 18 *
Sheet No. 5-52.3, original *	Sheet No. 5-93.4, revision 19 *
Sheet No. 5-64, revision 12	Sheet No. 5-93.5, revision 18 *
Sheet No. 5-65, revision 23	Sheet No. 5-93.6, revision 4 *
Sheet No. 5-65.1, revision 6	Sheet No. 5-93.7, revision 4 *
Sheet No. 5-66, revision 10	Sheet No. 5-93.8, revision 4 *
Sheet No. 5-67, revision 7	Sheet No. 5-93.9, revision 4 *
Sheet No. 5-68, revision 6	Sheet No. 5-93.10, revision 4 *
Sheet No. 5-71, revision 18	Sheet No. 5-93.11, revision 4 *
Sheet No. 5-72, revision 8	Sheet No. 5-93.12, revision 10
Sheet No. 5-73, revision 6 *	Sheet No. 5-93.13, revision 5 *
Sheet No. 5-74, revision 27	Sheet No. 5-94, revision 12 *
Sheet No. 5-74.1, revision 11 *	Sheet No. 5-95, revision 9 *
Sheet No. 5-76, revision 26	Sheet No. 5-96, revision 12 *
Sheet No. 5-77, revision 11 *	Sheet No. 5-97, revision 9
Sheet No. 5-78, revision 30	Sheet No. 5-98, revision 8 *
Sheet No. 5-78.1, revision 6 *	Sheet No. 5-99, revision 8 *
Sheet No. 5-80, revision 28	Sheet No. 5-99.1, revision 5 *
Sheet No. 5-81, revision 15 *	Sheet No. 5-100, revision 5 *
Sheet No. 5-82, revision 7 *	Sheet No. 5-101, revision 21
Sheet No. 5-83, revision 6 *	Sheet No. 5-101.1, original *
Sheet No. 5-84, revision 6 *	Sheet No. 5-102, revision 14
Sheet No. 5-84.1, revision 4 *	Sheet No. 5-103, revision 7 *
Sheet No. 5-85, revision 31	Sheet No. 5-104, revision 8 *
Sheet No. 5-86, revision 7 *	Sheet No. 5-105, revision 8 *
Sheet No. 5-87, revision 31	Sheet No. 5-106, revision 8 *
Sheet No. 5-88, revision 9	Sheet No. 5-107, revision 5 *
Sheet No. 5-89, revision 15	Sheet No. 5-108, revision 13
Sheet No. 5-91, revision 30	Sheet No. 5-109, revision 15 *
Sheet No. 5-91.1, revision 17 *	Sheet No. 5-110, revision 8 *
Sheet No. 5-91.2, revision 11 *	Sheet No. 5-111, revision 7 *
Sheet No. 5-91.3, revision 17	Sheet No. 5-112, revision 7 *

* = No substantive changes to sheet, but included to provide complete tariff.

**Minnesota Electric Rate Book - MPUC No. 2
2020 Proposed Tariff Sheets**

Sheet No. 5-113, revision 8 *	Sheet No. 5-141, revision 2 *
Sheet No. 5-114, revision 7 *	Sheet No. 5-142, revision 15 *
Sheet No. 5-115, revision 14	Sheet No. 5-143, revision 22 *
Sheet No. 5-116, revision 9	Sheet No. 5-144, revision 14 *
Sheet No. 5-116.1, revision 5 *	Sheet No. 5-145, revision 5 *
Sheet No. 5-117, revision 6	Sheet No. 5-146, revision 10 *
Sheet No. 5-118, revision 4	Sheet No. 5-147, revision 13 *
Sheet No. 5-118.1, original	Sheet No. 5-149, original *
Sheet No. 5-118.2, original	Sheet No. 5-150, revision 5 *
Sheet No. 5-119, revision 5 *	Sheet No. 5-151, revision 1 *
Sheet No. 5-120, revision 5 *	Sheet No. 5-152, revision 1 *
Sheet No. 5-121, revision 5 *	Sheet No. 5-153, original *
Sheet No. 5-122, revision 6 *	Sheet No. 5-154, original *
Sheet No. 5-123, revision 7	Sheet No. 5-155, original *
Sheet No. 5-124, revision 6	Sheet No. 5-156, original *
Sheet No. 5-125, revision 5	Sheet No. 5-157, original *
Sheet No. 5-126, revision 11 *	Sheet No. 5-158, original *
Sheet No. 5-131, revision 7 *	Sheet No. 6-14, revision 5
Sheet No. 5-132, revision 6 *	Sheet No. 6-14.1, revision 2
Sheet No. 5-133, revision 6 *	Sheet No. 6-17.3, revision 1
Sheet No. 5-134, revision 7 *	Sheet No. 6-23, revision 3
Sheet No. 5-134.1, revision 6 *	Sheet No. 6-24, revision 3
Sheet No. 5-135, revision 5 *	Sheet No. 7-42, revision 2
Sheet No. 5-136, revision 8 *	Sheet No. 7-43, revision 2
Sheet No. 5-136.1, revision 7 *	Sheet No. 7-TOC-1, revision 14
Sheet No. 5-137, revision 12 *	Sheet No. 10-75, revision 3
Sheet No. 5-138, revision 5 *	
Sheet No. 5-139, revision 3	
Sheet No. 5-140, revision 3	

* = No substantive changes to sheet, but included to provide complete tariff.

Summary List of 2020 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Table of Contents	1-2		1. Added "General Three-Part Time of Use Service." 2. Deleted "Real Time Pricing".
Table of Contents	1-3		1. Added "Interim Rate Surcharge Rider". 2. Added "Revenue Decoupling Mechanism-Demand Rider."
Table of Contents	1-4		Updated to include existing tariff sheets: 1. Voluntary Renewable*Connect Rider Service Agreement 2. Voluntary Renewable*Connect Government Rider Service Agreement 3. Customer Mobile Application Terms of Use
Index of Company's Service Area	3-1 through 3-8		Various service area updates.
Section 5-Table of Contents	5-TOC-1, 5-TOC-2		1. Added "General Three-Part Time of Use Service." 2. Deleted "Real Time Pricing". 3. Added "Revenue Decoupling Mechanism-Demand Rider."
Residential Service	5-1	A00, A01, A03	Rate changes.
Residential Time of Day Service	5-2	A02, A04	Rate changes.
Residential Time of Use Pilot Program Service	5-4.1	A72, A74	Rate changes.
Residential Electric Vehicle Service	5-5, 5-6	A08	1. Rate changes. 2. Deleted obsolete language.
Residential Electric Vehicle Pilot Service	5-7	A81, A82	Rate changes.
Energy Controlled Service (Non-Demand Metered)	5-9	A05	Rate changes.
Limited Off Peak Service	5-11	A06	Rate changes.
Limited Off Peak Service	5-12	A06	Rate change.
Automatic Protective Lighting Service	5-14	A07	Rate changes.

Summary List of 2020 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Small General Service	5-21, 5-22	A09, A10, A11, A13	1. Rate changes. 2. Changed language in Revenue Decoupling Mechanism Rider paragraph.
Small General Time of Day Service	5-23, 5-24.1	A12, A16, A18, A22	Rate changes.
General Service	5-26, 5-27	A14	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
General Time of Day Service	5-29, 5-30	A15, A17, A19	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
General Time of Use Service	5-33, 5-34, 5-35, 5-36	A25	New rate offering.
Peak Controlled Service	5-40, 5-41	A23	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
Peak Controlled Time of Day Service	5-44, 5-45, 5-46	A24	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
Rules for Application of Peak Controlled Services	5-48, 5-49, 5-50		1. Added two rules. 2. Renumbered 5-49, 5-50.
Real Time Pricing Service	5-64, 5-65, 5-65.1, 5-66, 5-67, 5-68	A62 (Firm), A63 (Controllable)	1. Propose to cancel. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section, sheet 5-65 Rate Code A62.
Hiawatha Light Rail Line Tariff	5-71, 5-72	A29	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
Street Lighting System Service	5-74	A30	Rate changes.
Street Lighting Energy Service (Closed)	5-76	A32	Rate changes.
Street Lighting Energy Service – Metered	5-78	A34	Rate changes.
Street Lighting Service – City of St. Paul	5-80	A37	Rate changes.
Small Municipal Pumping Service	5-85	A40	1. Rate changes. 2. Added "Revenue Decoupling Mechanism Rider" section.

Summary List of 2020 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Municipal Pumping Service	5-87, 5-88	A41	1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
Fire and Civil Defense Siren Service	5-89	A42	Rate changes.
Fuel Clause Rider	5-91, 5-91.3		1. Updated ratios. 2. Deleted "Base Cost of Energy" section. 3. Added "General Time of Use (A25)". 4. Deleted "Real Time Pricing (A62, A63).
Conservation Improvement Program Adjustment Rider	5-92.1		Rate changes.
Residential Controlled Air Conditioning and Water Heating Rider	5-97, 5-98		Change to rate structure.
Standby Service Rider	5-101,		Rate changes.
Supplemental Generation Service Rider	5-108,		Rate changes.
Tier 1 Energy Controlled Service Rider	5-115, 5-116		1. Rate changes. 2. Added "Revenue Decoupling Mechanism-Demand Rider" section.
Revenue Decoupling Mechanism Rider	5-117, 5-118		1. Added A72, A74, A13, A40 references. 2. Moved paragraph from 5-117 to 5-118. 3. Changed percentages from 3% to 5%. 4. Changed terms.
Revenue Decoupling Mechanism-Demand Rider	5-118.1, 5-118.2		New rider.
Photovoltaic Demand Credit Rider	5-125	A85, A86	Rate change.
Business Incentive and Sustainability Rider	5-139, 5-140		Clarified language.

Summary List of 2020 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
General Rules and Regulations	6-14		1. Updated payment options. 2. Language change to reflect future AMI meters.
General Rules and Regulations	6-14.1		Clarified language.
General Rules and Regulations	6-17.3		Corrected reference letter.
General Rules and Regulations	6-23, 6-24		Rate changes.
Section 7-Table of Contents	7-TOC-1		Updated to include existing tariff sheets: Customer Mobile Application Terms of Use.
Underground Gas and/or Electric Distribution Agreement	7-42		Deleted extra punctuation.
Underground Gas and/or Electric Distribution Agreement	7-43		Modified Xcel Energy signatory section.
Distributed Generation Standard Interconnection and Power Purchase Tariff	10-75		Corrected spelling.

**Minnesota Electric Rate Book - MPUC No. 2
2021 Proposed Tariff Sheets**

(Interim 2020 & 2021 proposed rate sheets are included in Volume 1)

Sheet No. 5-1, revision 32
Sheet No. 5-2, revision 32
Sheet No. 5-4.1, revision 2
Sheet No. 5-5, revision 20
Sheet No. 5-6, revision 17
Sheet No. 5-7, revision 6
Sheet No. 5-9, revision 31
Sheet No. 5-11, revision 34
Sheet No. 5-12, revision 9
Sheet No. 5-14, revision 25
Sheet No. 5-21, revision 32
Sheet No. 5-23, revision 32
Sheet No. 5-24.1, revision 13
Sheet No. 5-26, revision 32
Sheet No. 5-29, revision 28
Sheet No. 5-40, revision 23
Sheet No. 5-44, revision 18
Sheet No. 5-45, revision 26
Sheet No. 5-71, revision 18
Sheet No. 5-74, revision 27
Sheet No. 5-76, revision 26
Sheet No. 5-78, revision 30
Sheet No. 5-80, revision 28
Sheet No. 5-85, revision 31
Sheet No. 5-87, revision 32
Sheet No. 5-89, revision 15
Sheet No. 5-101, revision 21
Sheet No. 5-108, revision 13
Sheet No. 5-115, revision 14
Sheet No. 5-125, revision 5

Summary List of 2021 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Residential Service	5-1	A00, A01, A03	Rate changes.
Residential Time of Day Service	5-2	A02, A04	Rate changes.
Residential Time of Use Pilot Program Service	5-4.1	A72, A74	Rate changes.
Residential Electric Vehicle Service	5-5	A08	Rate changes.
Residential Electric Vehicle Pilot Service	5-7	A81, A82	Rate changes.
Energy Controlled Service (Non-Demand Metered)	5-9	A05	Rate changes.
Limited Off Peak Service	5-11	A06	Rate changes.
Limited Off Peak Service	5-12	A06	Rate change.
Automatic Protective Lighting Service	5-14	A07	Rate changes.
Small General Service	5-21	A09, A10, A11, A13	Rate changes.
Small General Time of Day Service	5-23, 5-24.1	A12, A16, A18, A22	Rate changes.
General Service	5-26	A14	Rate changes.
General Time of Day Service	5-29	A15, A17, A19	Rate changes.
Peak Controlled Service	5-40	A23	Rate changes.
Peak Controlled Time of Day Service	5-44, 5-45	A24	Rate changes.
Hiawatha Light Rail Line Tariff	5-71	A29	Rate changes.
Street Lighting System Service	5-74	A30	Rate changes.
Street Lighting Energy Service (Closed)	5-76	A32	Rate changes.
Street Lighting Energy Service – Metered	5-78	A34	Rate changes.
Street Lighting – City of St. Paul	5-80	A37	Rate changes.
Small Municipal Pumping Service	5-85	A40	Rate changes.

Summary List of 2021 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Municipal Pumping Service	5-87	A41	Rate changes.
Fire and Civil Defense Siren Service	5-89	A42	Rate changes.
Standby Service Rider	5-101		Rate changes.
Supplemental Generation Service Rider	5-108		Rate changes.
Tier 1 Energy Controlled Service Rider	5-115	A27	Rate changes.
Photovoltaic Demand Credit Rider	5-125	A85, A86	Rate change.

Minnesota Electric Rate Book - MPUC No. 2
2022 Proposed Tariff Sheets

Sheet No. 5-1, revision 32
Sheet No. 5-2, revision 32
Sheet No. 5-4.1, revision 2
Sheet No. 5-5, revision 20
Sheet No. 5-6, revision 17
Sheet No. 5-7, revision 6
Sheet No. 5-9, revision 31
Sheet No. 5-11, revision 34
Sheet No. 5-12, revision 9
Sheet No. 5-14, revision 25
Sheet No. 5-21, revision 32
Sheet No. 5-23, revision 32
Sheet No. 5-24.1, revision 13
Sheet No. 5-26, revision 32
Sheet No. 5-29, revision 28
Sheet No. 5-40, revision 23
Sheet No. 5-44, revision 18
Sheet No. 5-45, revision 26
Sheet No. 5-71, revision 18
Sheet No. 5-74, revision 27
Sheet No. 5-76, revision 26
Sheet No. 5-78, revision 30
Sheet No. 5-80, revision 28
Sheet No. 5-85, revision 31
Sheet No. 5-87, revision 32
Sheet No. 5-89, revision 15
Sheet No. 5-101, revision 21
Sheet No. 5-108, revision 13
Sheet No. 5-115, revision 14
Sheet No. 5-125, revision 5

Summary List of 2022 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Residential Service	5-1	A00, A01, A03	Rate changes.
Residential Time of Day Service	5-2	A02, A04	Rate changes.
Residential Time of Use Pilot Program Service	5-4.1	A72, A74	Rate changes.
Residential Electric Vehicle Service	5-5	A08	Rate changes.
Residential Electric Vehicle Pilot Service	5-7	A81, A82	Rate changes.
Energy Controlled Service (Non-Demand Metered)	5-9	A05	Rate changes.
Limited Off Peak Service	5-11	A06	Rate changes.
Limited Off Peak Service	5-12	A06	Rate change.
Automatic Protective Lighting Service	5-14	A07	Rate changes.
Small General Service	5-21	A09, A10, A11, A13	Rate changes.
Small General Time of Day Service	5-23, 5-24.1	A12, A16, A18, A22	Rate changes.
General Service	5-26	A14	Rate changes.
General Time of Day Service	5-29	A15, A17, A19	Rate changes.
Peak Controlled Service	5-40	A23	Rate changes.
Peak Controlled Time of Day Service	5-44, 5-45	A24	Rate changes.
Hiawatha Light Rail Line Tariff	5-71	A29	Rate changes.
Street Lighting System Service	5-74	A30	Rate changes.
Street Lighting Energy Service (Closed)	5-76	A32	Rate changes.
Street Lighting Energy Service – Metered	5-78	A34	Rate changes.
Street Lighting – City of St. Paul	5-80	A37	Rate changes.
Small Municipal Pumping Service	5-85	A40	Rate changes.

Summary List of 2022 Tariff Changes

<u>Tariff</u>	<u>Sheet No.</u>	<u>Rate Code</u>	<u>Changes</u>
Municipal Pumping Service	5-87	A41	Rate changes.
Fire and Civil Defense Siren Service	5-89	A42	Rate changes.
Standby Service Rider	5-101		Rate changes.
Supplemental Generation Service Rider	5-108		Rate changes.
Tier 1 Energy Controlled Service Rider	5-115	A27	Rate changes.
Photovoltaic Demand Credit Rider	5-125	A85, A86	Rate change.

SALES AND REVENUE BY RATE SCHEDULE

Service Schedule	Average Customers	Revenues (\$1,000s)										
		MWH Sales			Summer		Winter		Annual		Increase	
		Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
Residential												
Residential	1,164,971	3,183,290	5,160,619	8,343,908	459,561	500,899	696,798	743,111	1,156,359	1,244,010	87,650	7.58%
Residential TOD	674	2,341	5,135	7,476	340	360	608	642	948	1,001	54	5.65%
Residential EV	952	17,200	38,107	55,308	1,549	1,607	3,182	3,305	4,731	4,911	181	3.82%
Load Management	3,589	9,134	35,029	44,164	870	898	2,877	2,954	3,747	3,852	105	2.81%
Res Total	1,170,186	3,211,966	5,238,890	8,450,856	462,320	503,764	703,465	750,011	1,165,785	1,253,775	87,990	7.55%
C&I - Non-Demand												
Small General	75,036	254,055	505,788	759,843	35,485	38,213	62,520	67,440	98,005	105,653	7,648	7.80%
Small General TOD	11,052	25,114	57,501	82,616	3,350	3,597	6,689	7,192	10,039	10,789	750	7.47%
Load Management	199	635	3,036	3,671	71	76	267	281	339	357	18	5.31%
C&I N-D Total	86,287	279,804	566,326	846,130	38,906	41,885	69,476	74,913	108,383	116,798	8,416	7.76%
C&I - Demand												
General	41,660	2,785,653	5,033,970	7,819,623	317,407	334,721	506,402	534,194	823,809	868,916	45,107	5.48%
General TOD	4,755	2,786,356	4,711,573	7,497,929	254,909	268,985	385,921	407,415	640,831	676,401	35,570	5.55%
Light Rail	16	7,099	17,062	24,161	709	753	1,535	1,632	2,244	2,386	142	6.32%
Peak-Controlled	1,412	377,377	719,986	1,097,363	40,910	43,190	71,576	75,623	112,486	118,814	6,327	5.62%
Peak-Controlled TOD	342	886,985	1,587,661	2,474,646	73,950	78,272	125,816	133,206	199,766	211,478	11,712	5.86%
Energy-Controlled	11	146,691	268,961	415,652	10,591	11,191	19,554	20,659	30,146	31,850	1,704	5.65%
Real Time Pricing	3	7,587	13,794	21,380	729	787	1,139	1,247	1,868	2,034.1	166	8.87%
C&I Dmd Total	48,200	6,997,747	12,353,007	19,350,754	699,206	737,901	1,111,943	1,173,977	1,811,150	1,911,878	100,728	5.56%
C&I Total	134,486	7,277,551	12,919,332	20,196,884	738,113	779,786	1,181,420	1,248,890	1,919,532	2,028,676	109,144	5.69%
Public Authorities												
Small Mun Pumping	930	2,239	4,883	7,123	331	356	621	671	952	1,028	76	7.93%
Municipal Pumping	574	24,950	35,861	60,810	3,206	3,375	4,186	4,409	7,392	7,784	392	5.31%
Siren Service	0	0	0	0	12	12	23	25	35	37	2	6.58%
PA Total	1,504	27,189	40,744	67,933	3,548	3,743	4,831	5,105	8,379	8,849	470	5.61%
Lighting												
System Service	0	7,275	24,758	32,034	5,872	6,747	11,997	13,730	17,869	20,477	2,608	14.59%
Energy	0	5,849	19,904	25,754	593	626	1,388	1,442	1,981	2,068	87	4.37%
Metered Energy	2,249	7,972	27,129	35,101	603	607	1,990	1,996	2,594	2,603	9	0.36%
Protective Lighting	0	7,698	22,088	29,786	1,367	1,460	2,899	3,076	4,266	4,536	270	6.33%
Lighting Total	2,249	28,795	93,880	122,675	8,435	9,440	18,274	20,243	26,709	29,683	2,974	11.13%
Total Retail	1,308,426	10,545,500	18,292,846	28,838,347	1,212,415	1,296,733	1,907,989	2,024,250	3,120,405	3,320,983	200,578	6.43%
Other Rev Increase					0	271	0	542	0	812,751	813	
Interdept. Increase					0	18	0	18	0	36	36	
Total Revenue	1,308,426	10,545,500	18,292,846	28,838,347	1,212,415	1,297,022	1,907,989	2,024,810	3,120,405	3,321,832	201,427	6.46%
Interdept Present	5	3,295	3,813	7,108	349	349	385	385	735	735	0	
Retail + ID	1,308,431	10,548,796	18,296,660	28,845,455	1,212,765	1,297,371	1,908,375	2,025,195	3,121,140	3,322,567	201,427	6.45%

SALES AND REVENUE BY RATE SCHEDULE

Service Schedule	Average Customers	Revenues (\$1,000s)										
		MWH Sales			Summer		Winter		Annual		Increase	
		Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
Residential												
Residential	1,174,532	3,135,318	5,031,928	8,167,246	454,276	520,953	682,933	766,307	1,137,209	1,287,259	150,051	13.19%
Residential TOD	681	2,307	5,022	7,329	336	373	597	663	933	1,036	103	11.00%
Residential EV	1,333	25,717	45,910	71,627	2,319	2,518	3,852	4,197	6,171	6,716	545	8.83%
Load Management	3,650	9,034	34,588	43,622	865	947	2,851	3,126	3,716	4,073	357	9.61%
Res Total	1,180,196	3,172,375	5,117,448	8,289,824	457,796	524,791	690,233	774,293	1,148,029	1,299,084	151,056	13.16%
C&I - Non-Demand												
Small General	75,392	250,615	498,995	749,610	35,118	39,591	61,894	69,992	97,011	109,583	12,572	12.96%
Small General TOD	11,104	24,775	56,747	81,522	3,319	3,716	6,628	7,450	9,947	11,165	1,218	12.24%
Load Management	199	626	2,995	3,622	70	78	265	292	335	370	35	10.46%
C&I N-D Total	86,695	276,016	558,737	834,754	38,507	43,385	68,786	77,734	107,294	121,118	13,824	12.88%
C&I - Demand												
General	41,857	2,747,863	4,967,099	7,714,961	313,694	343,278	500,863	550,554	814,556	893,832	79,275	9.73%
General TOD	4,775	2,743,333	4,643,641	7,386,974	251,627	275,454	381,469	419,293	633,095	694,747	61,652	9.74%
Light Rail	16	7,003	16,815	23,818	701	773	1,516	1,680	2,217	2,454	236	10.66%
Peak-Controlled	1,419	372,269	710,417	1,082,686	40,444	44,525	70,784	78,146	111,229	122,671	11,442	10.29%
Peak-Controlled TOD	343	873,782	1,562,302	2,436,084	73,042	80,580	124,152	137,229	197,194	217,809	20,615	10.45%
Energy-Controlled	11	144,481	264,604	409,086	10,460	11,587	19,288	21,371	29,749	32,958	3,209	10.79%
Real Time Pricing	3	7,472	13,562	21,034	719	807	1,123	1,282	1,843	2,088.3	245	13.32%
C&I Dmd Total	48,425	6,896,203	12,178,439	19,074,642	690,688	757,004	1,099,195	1,209,555	1,789,883	1,966,558	176,675	9.87%
C&I Total	135,120	7,172,219	12,737,176	19,909,395	729,195	800,388	1,167,981	1,287,288	1,897,177	2,087,677	190,500	10.04%
Public Authorities												
Small Mun Pumping	932	2,241	4,819	7,060	332	373	615	696	947	1,069	122	12.89%
Municipal Pumping	574	24,984	35,384	60,368	3,215	3,508	4,138	4,543	7,353	8,051	698	9.49%
Siren Service	0	0	0	0	12	13	23	25	35	38	3	9.21%
PA Total	1,506	27,226	40,202	67,428	3,558	3,894	4,777	5,264	8,335	9,158	823	9.87%
Lighting												
System Service	0	7,281	24,752	32,034	5,874	7,046	12,001	14,332	17,875	21,378	3,503	19.60%
Energy	0	5,854	19,900	25,754	594	648	1,392	1,487	1,986	2,135	149	7.51%
Metered Energy	2,249	7,809	26,545	34,354	593	615	1,954	2,023	2,547	2,639	91	3.57%
Protective Lighting	0	7,591	21,738	29,329	1,366	1,542	2,894	3,237	4,260	4,779	519	12.18%
Lighting Total	2,249	28,534	92,936	121,470	8,427	9,851	18,241	21,079	26,668	30,930	4,262	15.98%
Total Retail	1,319,070	10,400,355	17,987,762	28,388,117	1,198,976	1,338,924	1,881,232	2,087,924	3,080,208	3,426,848	346,640	11.25%
Other Rev Increase					0	362	0	725	0	1,087	1,087	
Interdept. Increase					0	33	0	34	0	67	67	
Total Revenue	1,319,070	10,400,355	17,987,762	28,388,117	1,198,976	1,339,320	1,881,232	2,088,683	3,080,208	3,428,003	347,795	11.29%
Interdept Present	5	3,295	3,813	7,108	350	350	386	386	736	736	0	
Retail + ID	1,319,075	10,403,650	17,991,575	28,395,225	1,199,326	1,339,670	1,881,618	2,089,069	3,080,944	3,428,739	347,795	11.29%

SALES AND REVENUE BY RATE SCHEDULE

Service Schedule	Average Customers	Revenues (\$1,000s)										
		MWH Sales			Summer		Winter		Annual		Increase	
		Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
Residential												
Residential	1,183,337	3,130,356	5,016,829	8,147,185	453,756	541,458	681,357	795,621	1,135,113	1,337,079	201,966	17.79%
Residential TOD	686	2,305	5,017	7,322	336	387	597	690	933	1,077	144	15.47%
Residential EV	1,714	31,435	63,999	95,434	2,835	3,205	5,357	6,092	8,192	9,297	1,105	13.48%
Load Management	3,711	9,065	34,782	43,847	868	993	2,866	3,296	3,734	4,289	555	14.85%
Res Total	1,189,448	3,173,161	5,120,628	8,293,789	457,795	546,044	690,178	805,699	1,147,973	1,351,742	203,769	17.75%
C&I - Non-Demand												
Small General	75,741	247,369	495,622	742,991	34,698	40,440	61,518	71,981	96,215	112,421	16,206	16.84%
Small General TOD	11,156	24,456	56,362	80,818	3,283	3,794	6,590	7,660	9,873	11,454	1,581	16.02%
Load Management	200	618	2,978	3,596	70	80	263	304	333	384	51	15.34%
C&I N-D Total	87,098	272,443	554,962	827,405	38,050	44,314	68,370	79,945	106,421	124,259	17,838	16.76%
C&I - Demand												
General	42,050	2,712,335	4,932,438	7,644,773	309,522	349,110	497,222	563,509	806,744	912,619	105,875	13.12%
General TOD	4,795	2,743,042	4,669,090	7,412,132	251,757	283,933	383,373	434,361	635,129	718,294	83,165	13.09%
Light Rail	16	6,913	16,701	23,614	692	788	1,505	1,722	2,197	2,510	313	14.23%
Peak-Controlled	1,426	367,467	705,404	1,072,871	39,911	45,395	70,252	80,152	110,163	125,547	15,384	13.96%
Peak-Controlled TOD	344	862,905	1,550,110	2,413,015	72,111	82,180	123,143	140,644	195,254	222,824	27,570	14.12%
Energy-Controlled	11	142,704	262,506	405,210	9,047	10,538	18,898	21,666	27,945	32,203	4,259	15.24%
Real Time Pricing	3	7,381	13,456	20,837	710	822	1,114	1,312	1,825	2,133.5	309	16.92%
C&I Dmd Total	48,645	6,842,747	12,149,704	18,992,452	683,750	772,765	1,095,507	1,243,366	1,779,257	2,016,131	236,875	13.31%
C&I Total	135,742	7,115,190	12,704,666	19,819,856	721,800	817,079	1,163,877	1,323,311	1,885,677	2,140,390	254,713	13.51%
Public Authorities												
Small Mun Pumping	931	2,239	4,813	7,053	331	385	614	718	946	1,103	157	16.63%
Municipal Pumping	575	24,981	35,379	60,360	3,213	3,611	4,135	4,677	7,347	8,287	940	12.79%
Siren Service	0	0	0	0	12	13	23	25	35	38	3	9.21%
PA Total	1,506	27,221	40,192	67,413	3,555	4,008	4,772	5,420	8,328	9,428	1,100	13.21%
Lighting												
System Service	0	7,312	24,722	32,034	5,875	7,225	12,001	14,688	17,875	21,913	4,037	22.59%
Energy	0	5,878	19,875	25,754	595	664	1,392	1,521	1,986	2,185	199	10.00%
Metered Energy	2,249	8,032	27,156	35,187	609	647	1,998	2,120	2,607	2,768	161	6.17%
Protective Lighting	0	7,511	21,610	29,121	1,364	1,608	2,892	3,373	4,255	4,981	725	17.05%
Lighting Total	2,249	28,732	93,363	122,095	8,442	10,144	18,282	21,702	26,724	31,846	5,122	19.17%
Total Retail	1,328,945	10,344,304	17,958,849	28,303,153	1,191,593	1,377,275	1,877,109	2,156,132	3,068,702	3,533,407	464,705	15.14%
Other Rev Increase					0	436	0	872	0	1,308	1,308	
Interdept. Increase					0	45	0	47	0	91	91	
Total Revenue	1,328,945	10,344,304	17,958,849	28,303,153	1,191,593	1,377,756	1,877,109	2,157,051	3,068,702	3,534,807	466,105	15.19%
Interdept Present	5	3,295	3,813	7,108	350	350	386	386	736	736	0	
Retail + ID	1,328,950	10,347,599	17,962,662	28,310,262	1,191,943	1,378,106	1,877,495	2,157,437	3,069,438	3,535,542	466,105	15.19%

	Revenues (\$1,000s)							
	Total		Base		Fuel		Rider	
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed
Residential Regular	1,122,626	1,208,495	843,931	973,467	227,185	225,426	51,510	9,602
Res Space Heating	44,242	46,449	30,783	35,138	10,923	10,839	2,536	473
Total Residential	1,166,868	1,254,944	874,714	1,008,605	238,108	236,265	54,046	10,074
Small Comm. & Ind.	1,304,240	1,378,588	881,776	1,012,612	349,462	350,842	73,003	15,133
Large Comm. & Ind.	618,474	653,455	376,242	439,678	204,362	204,823	37,871	8,954
Total Comm. & Ind.	1,922,714	2,032,043	1,258,018	1,452,291	553,823	555,665	110,874	24,087
Street Lighting	22,444	25,147	20,149	22,999	2,046	2,037	249	111
Public Authorities	8,379	8,849	6,028	6,881	1,878	1,887	472	81
Total Retail	3,120,405	3,320,983	2,158,908	2,490,776	795,855	795,855	165,641	34,352
Other Revenues Incr.		813		813				
Interdept Rev Incr		36		72		0		-36
Retail + Increases	3,120,405	3,321,832	2,158,908	2,491,660	795,855	795,855	165,641	34,316
Interdept Present Rev.	735	735	494	494	196	196	45	45
Retail + Interdept	3,121,140	3,322,567	2,159,403	2,492,155	796,051	796,051	165,686	34,361

	Revenue Increase							
	Total		Base		Fuel		Rider	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Residential Regular	85,869	7.65%	129,537	15.35%	-1,759	-0.77%	-41,909	-81.4%
Res Space Heating	2,207	4.99%	4,355	14.15%	-85	-0.77%	-2,064	-81.4%
Total Residential	88,076	7.55%	133,892	15.31%	-1,843	-0.77%	-43,972	-81.4%
Small Comm. & Ind.	74,347	5.70%	130,836	14.84%	1,381	0.40%	-57,870	-79.3%
Large Comm. & Ind.	34,981	5.66%	63,437	16.86%	462	0.23%	-28,918	-76.4%
Total Comm. & Ind.	109,328	5.69%	194,273	15.44%	1,842	0.33%	-86,787	-78.3%
Street Lighting	2,704	12.05%	2,851	14.15%	-9	-0.42%	-138	-55.6%
Public Authorities	470	5.61%	852	14.14%	9	0.49%	-392	-82.9%
Total Retail	200,578	6.43%	331,868	15.37%	0	0.00%	-131,289	-79.3%
Other Revenues Incr.	813		813		0		0	
Interdept Rev Incr	36		72		0		-36	
Retail + Increases	201,427	6.46%	332,752	15.41%	0	0.00%	-131,325	-79.3%
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.0%
Retail + Interdept	201,427	6.45%	332,752	15.41%	0	0.00%	-131,325	-79.3%

	Revenues (\$1,000s)							
	Total		Base		Fuel		Rider	
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed
Residential Regular	1,105,057	1,251,546	830,077	1,017,523	226,346	224,592	48,633	9,432
Res Space Heating	44,053	48,769	30,636	37,389	10,996	10,911	2,420	469
Total Residential	1,149,110	1,300,315	860,713	1,054,911	237,343	235,503	51,054	9,901
Small Comm. & Ind.	1,289,945	1,419,770	870,510	1,053,186	350,244	351,624	69,190	14,960
Large Comm. & Ind.	610,410	671,455	370,378	457,856	204,310	204,769	35,722	8,829
Total Comm. & Ind.	1,900,355	2,091,225	1,240,888	1,511,043	554,555	556,393	104,912	23,788
Street Lighting	22,408	26,151	20,115	23,988	2,062	2,053	231	110
Public Authorities	8,335	9,158	5,990	7,175	1,893	1,903	452	80
Total Retail	3,080,208	3,426,848	2,127,706	2,597,117	795,852	795,852	156,650	33,880
Other Revenues Incr.		1,087		1,087				
Interdept Rev Incr		67		101		1		-34
Retail + Increases	3,080,208	3,428,003	2,127,706	2,598,305	795,852	795,852	156,650	33,845
Interdept Present Rev.	736	736	494	494	199	199	43	43
Retail + Interdept	3,080,944	3,428,739	2,128,200	2,598,800	796,051	796,051	156,692	33,888

	Revenue Increase							
	Total		Base		Fuel		Rider	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Residential Regular	146,489	13.26%	187,445	22.58%	-1,755	-0.78%	-39,202	-80.6%
Res Space Heating	4,716	10.71%	6,753	22.04%	-85	-0.78%	-1,951	-80.6%
Total Residential	151,205	13.16%	194,198	22.56%	-1,840	-0.78%	-41,153	-80.6%
Small Comm. & Ind.	129,825	10.06%	182,676	20.98%	1,380	0.39%	-54,231	-78.4%
Large Comm. & Ind.	61,044	10.00%	87,478	23.62%	459	0.22%	-26,893	-75.3%
Total Comm. & Ind.	190,869	10.04%	270,154	21.77%	1,839	0.33%	-81,124	-77.3%
Street Lighting	3,743	16.71%	3,873	19.26%	-9	-0.42%	-121	-52.5%
Public Authorities	823	9.87%	1,185	19.79%	9	0.49%	-372	-82.2%
Total Retail	346,640	11.25%	469,411	22.06%	-1	0.00%	-122,770	-78.4%
Other Revenues Incr.	1,087		1,087		0		0	
Interdept Rev Incr	67		101		1		-34	
Retail + Increases	347,795	11.29%	470,599	22.12%	0	0.00%	-122,804	-78.4%
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Retail + Interdept	347,795	11.29%	470,599	22.11%	0	0.00%	-122,804	-78.4%

	Revenues (\$1,000s)							
	Total		Base		Fuel		Rider	
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed
Residential Regular	1,104,656	1,301,827	830,145	1,066,143	227,072	225,315	47,439	10,369
Res Space Heating	44,398	51,198	30,910	39,654	11,110	11,024	2,378	520
Total Residential	1,149,054	1,353,024	861,055	1,105,797	238,182	236,339	49,817	10,888
Small Comm. & Ind.	1,277,789	1,450,716	862,764	1,084,924	348,121	349,498	66,904	16,294
Large Comm. & Ind.	611,063	693,373	370,465	477,608	205,563	206,028	35,036	9,737
Total Comm. & Ind.	1,888,852	2,144,089	1,233,228	1,562,532	553,684	555,526	101,939	26,031
Street Lighting	22,468	26,865	20,153	24,665	2,087	2,078	229	122
Public Authorities	8,328	9,428	5,989	7,432	1,899	1,908	441	88
Total Retail	3,068,702	3,533,407	2,120,424	2,700,426	795,851	795,851	152,426	37,130
Other Revenues Incr.		1,308		1,308				
Interdept Rev Incr		91		124		1		-33
Retail + Increases	3,068,702	3,534,807	2,120,424	2,701,859	795,851	795,851	152,426	37,097
Interdept Present Rev.	736	736	494	494	200	200	42	42
Retail + Interdept	3,069,438	3,535,542	2,120,919	2,702,353	796,051	796,051	152,468	37,139

	Revenue Increase							
	Total		Base		Fuel		Rider	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Residential Regular	197,171	17.85%	235,998	28.43%	-1,757	-0.77%	-37,070	-78.1%
Res Space Heating	6,800	15.32%	8,744	28.29%	-86	-0.77%	-1,858	-78.2%
Total Residential	203,971	17.75%	244,742	28.42%	-1,843	-0.77%	-38,928	-78.1%
Small Comm. & Ind.	172,927	13.53%	222,160	25.75%	1,377	0.40%	-50,610	-75.6%
Large Comm. & Ind.	82,310	13.47%	107,143	28.92%	465	0.23%	-25,299	-72.2%
Total Comm. & Ind.	255,237	13.51%	329,304	26.70%	1,842	0.33%	-75,908	-74.5%
Street Lighting	4,397	19.57%	4,513	22.39%	-9	-0.42%	-107	-46.8%
Public Authorities	1,100	13.21%	1,443	24.10%	9	0.49%	-352	-79.9%
Total Retail	464,705	15.14%	580,002	27.35%	-1	0.00%	-115,296	-75.6%
Other Revenues Incr.	1,308		1,308		0		0	
Interdept Rev Incr	91		124		1		-33	
Retail + Increases	466,105	15.19%	581,434	27.42%	0	0.00%	-115,329	-75.7%
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Retail + Interdept	466,105	15.19%	581,434	27.41%	0	0.00%	-115,329	-75.6%

Fuel Cost - Retail	Present			Proposed		
	Summer	Winter	Annual	Summer	Winter	Annual
Retail	3.025 ¢	2.639 ¢	2.781 ¢	3.025 ¢	2.639 ¢	2.781 ¢
Residential	3.079 ¢	2.686 ¢	2.830 ¢	3.058 ¢	2.668 ¢	2.811 ¢
C&I - Non-Demand	3.117 ¢	2.719 ¢	2.866 ¢	3.197 ¢	2.789 ¢	2.939 ¢
C&I-Dmd - Non-TOD			2.777 ¢			2.787 ¢
C&I-Dmd -TOD On-Peak			3.472 ¢			3.483 ¢
C&I-Dmd -TOD Off-Peak			2.271 ¢			2.279 ¢
Lighting			2.218 ¢			2.211 ¢

		Present	Proposed	Present	Proposed
Residential (A01, A03)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Overhead - Electric Sp Ht	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
	Underground - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
Energy / kWh	Summer	10.301 ¢	11.577 ¢	13.380 ¢	14.635 ¢
	Winter	8.803 ¢	9.985 ¢	11.489 ¢	12.653 ¢
	Winter - Electric Space Heat	5.988 ¢	6.789 ¢	8.674 ¢	9.457 ¢

		Present	Proposed	Present	Proposed
Residential Time of Day (A02, A04)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$12.00	\$13.50	\$12.00	\$13.50
	Overhead - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
	Underground - Electric Sp Ht	\$14.00	\$15.50	\$14.00	\$15.50
Energy / kWh	On-Peak Summer	20.497 ¢	22.618 ¢	23.576 ¢	25.676 ¢
	On-Peak Winter	16.508 ¢	18.371 ¢	19.194 ¢	21.039 ¢
	On-Peak Winter -Elec. Sp Ht	9.284 ¢	10.105 ¢	11.970 ¢	12.773 ¢
	Off-Peak Summer	4.170 ¢	4.958 ¢	7.249 ¢	8.016 ¢
	Off-Peak Winter	4.170 ¢	4.958 ¢	6.856 ¢	7.626 ¢

		Present	Proposed	Present	Proposed
Residential Electric Vehicle		Base Rates		Rates + Fuel	
Customer / Mo.	A08 EV Service	\$4.95	\$5.50	\$4.95	\$5.50
	A80 EV Pilot Bundled	\$17.47	\$18.00	\$17.47	\$18.00
	A81 EV Pilot Pre-Pay	\$7.10	\$7.50	\$7.10	\$7.50
Energy / kWh	On-Peak Summer	16.508 ¢	22.618 ¢	19.587 ¢	25.676 ¢
	On-Peak Winter	9.284 ¢	18.371 ¢	11.970 ¢	21.039 ¢
	Off-Peak Summer	4.170 ¢	4.958 ¢	7.249 ¢	8.016 ¢
	Off-Peak Winter	4.170 ¢	4.958 ¢	6.856 ¢	7.626 ¢

		Present	Proposed	Present	Proposed
Residential Time of Use Pilot (A72, A74)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	On-Peak Summer	22.576 ¢	24.726 ¢	25.655 ¢	27.784 ¢
	On-Peak Winter	19.266 ¢	21.895 ¢	21.952 ¢	24.563 ¢
	Mid-Peak Summer	9.013 ¢	10.037 ¢	12.092 ¢	13.095 ¢
	Mid-Peak Winter	7.515 ¢	8.746 ¢	10.201 ¢	11.414 ¢
	Off-Peak Summer	2.784 ¢	3.396 ¢	5.863 ¢	6.454 ¢
	Off-Peak Winter	2.784 ¢	3.396 ¢	5.470 ¢	6.064 ¢

		Present	Proposed	Present	Proposed
Energy-Controlled Non-Demand (A05)		Base Rates		Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	Standard Resid.	4.4870 ¢	5.1910 ¢	7.317 ¢	8.002 ¢
	Standard Comm.	4.4870 ¢	5.1910 ¢	7.353 ¢	8.130 ¢
	Optional Resid. - Summer	10.301 ¢	11.577 ¢	13.380 ¢	14.635 ¢
	Optional Comm.- Summer	9.256 ¢	10.589 ¢	12.373 ¢	13.786 ¢

		Present	Proposed	Present	Proposed
Limited Off-Peak (A06)		Base Rates		Rates + Fuel	
Customer / Mo.	Residential	\$4.95	\$5.50	\$4.95	\$5.50
	Commercial Sec. 1 Phase	\$10.00	\$11.00	\$10.00	\$11.00
	Commercial Sec. 3 Phase	\$13.60	\$15.00	\$13.60	\$15.00
	Commercial Higher Voltages	\$60.00	\$60.00	\$60.00	\$60.00
Energy / kWh	Residential On-Peak	36.000 ¢	40.500 ¢	38.830 ¢	43.311 ¢
	Commercial On-Peak	36.000 ¢	40.500 ¢	38.866 ¢	43.439 ¢
	Residential Secondary	3.665 ¢	4.428 ¢	6.495 ¢	7.239 ¢
	Commercial Secondary	3.665 ¢	4.428 ¢	6.531 ¢	7.367 ¢
	Commercial Primary	3.560 ¢	4.313 ¢	6.426 ¢	7.252 ¢
	Commercial T Trnsfrmd	3.398 ¢	4.146 ¢	6.264 ¢	7.084 ¢
	Commercial Transmission	3.388 ¢	4.136 ¢	6.254 ¢	7.074 ¢

		Present	Proposed	Present	Proposed
Small General (A09, A10, A11, A13)		Base Rates		Rates + Fuel	
Customer / Mo.	Metered (A10)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A09)	\$8.00	\$9.50	\$8.00	\$9.50
Demand / kW	Direct Current	\$3.61	\$3.95	\$3.61	\$3.95
Energy / kWh	Summer	9.256 ¢	10.589 ¢	12.373 ¢	13.786 ¢
	Winter	7.757 ¢	8.998 ¢	10.476 ¢	11.787 ¢

		Present	Proposed	Present	Proposed
Small Municipal Pumping (A40)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	Summer	9.256 ¢	10.589 ¢	12.373 ¢	13.786 ¢
	Winter	7.757 ¢	8.998 ¢	10.476 ¢	11.787 ¢

		Present	Proposed	Present	Proposed
Small General TOD (A12, A16, A18, A22)		Base Rates		Rates + Fuel	
Customer / Mo.	TOD Metered (A12)	\$12.00	\$13.50	\$12.00	\$13.50
	KWH Metered (A16)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A18)	\$8.00	\$9.50	\$8.00	\$9.50
	Low Wattage <100W (A22)	\$0.30	\$0.32	\$0.30	\$0.32
	Low Wattage <400W (A22)	\$1.20	\$1.28	\$1.20	\$1.28
Energy / kWh	On-Peak Summer	14.880 ¢	16.786 ¢	17.997 ¢	19.983 ¢
	On-Peak Winter	11.723 ¢	13.442 ¢	14.442 ¢	16.231 ¢
	Off-Peak Summer	4.170 ¢	4.958 ¢	7.287 ¢	8.155 ¢
	Off-Peak Winter	4.170 ¢	4.958 ¢	6.889 ¢	7.747 ¢
	Constant Use - Summer	7.919 ¢	9.098 ¢	11.036 ¢	12.295 ¢
	Constant Use - Winter	6.814 ¢	7.927 ¢	9.533 ¢	10.716 ¢
Demand-Metered Voltage Discounts		Base Rates		Rates + Fuel	
Voltage Discount / kWh	Primary	0.105 ¢	0.115 ¢	0.105 ¢	0.115 ¢
	Transmission Transformed	0.267 ¢	0.282 ¢	0.267 ¢	0.282 ¢
	Transmission	0.277 ¢	0.293 ¢	0.277 ¢	0.293 ¢
Voltage Discount / kW	Primary	\$0.80	\$0.60	\$0.80	\$0.60
	Transmission Transformed	\$1.55	\$1.70	\$1.55	\$1.70
	Transmission	\$2.35	\$2.50	\$2.35	\$2.50

General (A14)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Energy / kWh		3.407 ¢	3.948 ¢	6.184 ¢	6.735 ¢
Energy Credit / kWh		-1.518 ¢	-1.660 ¢	-1.518 ¢	-1.660 ¢

Municipal Pumping (A41)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Energy / kWh		3.407 ¢	3.948 ¢	6.184 ¢	6.735 ¢
Energy Credit / kWh		-1.518 ¢	-1.660 ¢	-1.518 ¢	-1.660 ¢

		Present	Proposed	Present	Proposed
General Time of Day (A15)		Base Rates		Rates + Fuel	
Customer / Mo.	Standard A15)	\$29.64	\$31.00	\$29.64	\$31.00
	kWh Metered (A17)	\$25.64	\$27.00	\$25.64	\$27.00
	Unmetered (A19)	\$21.64	\$23.00	\$21.64	\$23.00
On-Peak Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Off-Peak Demand / kW		\$2.35	\$2.50	\$2.35	\$2.50
Energy / kWh	On-Peak	4.855 ¢	5.611 ¢	8.327 ¢	9.094 ¢
	Off-Peak	2.341 ¢	2.737 ¢	4.612 ¢	5.016 ¢
Energy Credit / kWh		-1.518 ¢	-1.660 ¢	-1.518 ¢	-1.660 ¢

		Present	Proposed	Present	Proposed
Hiawatha Light Rail Line (A29)		Base Rates		Rates + Fuel	
Customer / Mo.		\$100.00	\$100.00	\$100.00	\$100.00
Generation Demand / kW	Summer	\$8.71	\$9.10	\$8.71	\$9.10
	Winter	\$4.41	\$4.60	\$4.41	\$4.60
Transmission & Distribution Demand / kW		\$5.28	\$6.84	\$5.28	\$6.84
Off-Peak Demand / kW	Primary	\$1.55	\$1.90	\$1.55	\$1.90
Energy / kWh	On-Peak Primary	4.750 ¢	5.496 ¢	8.222 ¢	8.979 ¢
	Off-Peak Primary	2.236 ¢	2.622 ¢	4.507 ¢	4.901 ¢
Energy Credit / kWh		-1.303 ¢	-1.420 ¢	-1.303 ¢	-1.420 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled (A23)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
Firm Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Control Demand / kW	Tier 2 - Level A	\$8.88	\$10.41	\$8.88	\$10.41
	Tier 2 - Level B	\$7.86	\$9.28	\$7.86	\$9.28
	Tier 2 - Level C	\$7.34	\$8.74	\$7.34	\$8.74
	Tier 1 - Level B	\$7.15	\$8.54	\$7.15	\$8.54
	Tier 1 - Level C	\$6.56	\$7.92	\$6.56	\$7.92
	Tier 1 - Short Notice	\$6.09	\$7.42	\$6.09	\$7.42
Energy / kWh		3.407 ¢	3.948 ¢	6.184 ¢	6.735 ¢
Energy Credit / kWh		-1.518 ¢	-1.660 ¢	-1.518 ¢	-1.660 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled TOD (A24)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Control Demand / kW	Tier 2 - Level A	\$8.88	\$10.41	\$8.88	\$10.41
	Tier 2 - Level B	\$7.86	\$9.28	\$7.86	\$9.28
	Tier 2 - Level C	\$7.34	\$8.74	\$7.34	\$8.74
	Tier 1 - Level B	\$7.15	\$8.54	\$7.15	\$8.54
	Tier 1 - Level C	\$6.56	\$7.92	\$6.56	\$7.92
	Tier 1 - Short Notice	\$6.09	\$7.42	\$6.09	\$7.42
Off-Peak Demand / kW		\$2.35	\$2.50	\$2.35	\$2.50
Energy / kWh	On-Peak	4.855 ¢	5.611 ¢	8.327 ¢	9.094 ¢
	Off-Peak	2.341 ¢	2.737 ¢	4.612 ¢	5.016 ¢
Energy Credit / kWh		-1.5180 ¢	-1.6600 ¢	-1.5180 ¢	-1.6600 ¢

		Present	Proposed	Present	Proposed
Tier 1 Energy-Controlled Rider (A27)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$16.54	\$14.79	\$16.54
	Winter	\$10.49	\$12.04	\$10.49	\$12.04
Control Demand / kW	Tier 1 - Level B	\$7.15	\$8.54	\$7.15	\$8.54
	Tier 1 - Level C	\$6.56	\$7.92	\$6.56	\$7.92
	Tier 1 - Short Notice	\$6.09	\$7.42	\$6.09	\$7.42
Off-Peak Demand / kW		\$2.35	\$2.50	\$2.35	\$2.50
Energy / kWh	Firm On-Peak	4.855 ¢	5.611 ¢	8.327 ¢	9.094 ¢
	Firm Off-Peak	2.341 ¢	2.737 ¢	4.612 ¢	5.016 ¢
	Controllable On-Peak	4.647 ¢	5.414 ¢	8.119 ¢	8.897 ¢
	Controllable Off-Peak	2.280 ¢	2.711 ¢	4.551 ¢	4.990 ¢
	Control Period Energy	9.000 ¢	9.000 ¢	12.472 ¢	12.483 ¢
Energy Credit / kWh		-1.518 ¢	-1.660 ¢	-1.518 ¢	-1.660 ¢

	Present	Proposed
Fire & Civil Defense Siren (A42)		
HP Capacity / Mo.	\$0.76	\$0.81
Min Charge / Mo.	\$3.66	\$3.88

Standby Service Rider				
Supplemental Generation Service Rider				
Customer / Mo.			\$25.64	\$27.00
Demand / Contract kW	Standby	Unscheduled Maint	\$3.06	\$3.32
	Standby	Scheduled Maint	\$2.96	\$3.22
	Standby	Non-Firm	\$2.35	\$2.50
	Supplemental		\$3.40	\$3.72
Peak Surcharge / kWh	Standby	Summer	6.312 ¢	7.124 ¢
	Standby	Winter	4.130 ¢	4.841 ¢

Photovoltaic Demand Credit Rider (A85, A86)				
Customer / Mo.			\$25.75	\$27.00
Peak Credit / kWh	A85	Closed	7.139 ¢	7.139 ¢
	A86	Standard	7.139 ¢	7.139 ¢

Comparison Of Present & Proposed Rates

		Present	Proposed	Present	Proposed
Automatic Protective Lighting (A07)		Base Rates		Rates + Fuel	
Area	100 W HPSodium	\$7.41	\$8.10	\$8.30	\$8.99
	175 W Mercury	\$7.41	\$8.10	\$8.96	\$9.72
	250 W HPSodium	\$11.83	\$12.95	\$14.17	\$15.28
	400 W Mercury	\$11.83	\$12.95	\$15.34	\$16.56
	30-40W LED	\$7.28	\$7.97	\$7.58	\$8.27
	110-165W LED	\$11.33	\$12.45	\$12.51	\$13.63
Directional	250 W HPSodium	\$14.08	\$13.50	\$16.42	\$15.83
	400 W HPSodium	\$17.62	\$17.29	\$21.30	\$20.95
	1000 W Mercury	\$27.33	\$26.55	\$35.74	\$34.93

		Present	Proposed	Present	Proposed
Street Lighting System (A30)		Base Rates		Rates + Fuel	
Overhead	70 W HPSodium	\$9.63	\$12.18	\$10.25	\$12.80
	100 W HPSodium	\$10.17	\$12.76	\$11.06	\$13.65
	150 W HPSodium	\$10.95	\$13.78	\$12.26	\$15.08
	200 W HPSodium	\$12.88	\$15.63	\$14.69	\$17.43
	250 W HPSodium	\$13.87	\$16.74	\$16.21	\$19.07
	400 W HPSodium	\$16.85	\$20.27	\$20.53	\$23.93
	175 W Metal Halide	\$14.98	\$17.08	\$16.53	\$18.62
	30-40W LED	\$10.32	\$12.29	\$10.62	\$12.59
	50-75W LED	\$11.01	\$12.98	\$11.51	\$13.47
	110-165W LED	\$14.46	\$16.12	\$15.64	\$17.30
	200-250W LED	\$17.98	\$19.54	\$19.85	\$21.40
	Underground	70 W HPSodium	\$19.54	\$22.81	\$20.16
100 W HPSodium		\$20.07	\$23.39	\$20.96	\$24.28
150 W HPSodium		\$20.86	\$24.42	\$22.17	\$25.72
250 W HPSodium		\$23.38	\$27.15	\$25.72	\$29.48
400 W HPSodium		\$26.06	\$30.52	\$29.74	\$34.18
175 W Metal Halide		\$27.90	\$31.16	\$29.45	\$32.70
30-40W LED		\$20.22	\$22.92	\$20.52	\$23.22
50-75W LED		\$20.91	\$23.61	\$21.41	\$24.10
110-165W LED		\$23.96	\$26.54	\$25.14	\$27.72
200-250W LED		\$27.19	\$29.80	\$29.06	\$31.66
Decorative UG	100 W HPSodium	\$31.67	\$35.04	\$32.56	\$35.93
	150 W HPSodium	\$32.84	\$36.27	\$34.15	\$37.57
	250 W HPSodium	\$34.89	\$38.76	\$37.23	\$41.09
	400 W HPSodium	\$37.38	\$42.02	\$41.06	\$45.68
	175 W Metal Halide	\$37.38	\$42.02	\$38.93	\$43.56
Pre-Pay Option	70 W HPSodium	\$5.97	\$6.56	\$6.59	\$7.18
	100 W HPSodium	\$6.66	\$7.34	\$7.55	\$8.23
	150 W HPSodium	\$7.54	\$8.35	\$8.85	\$9.65
	250 W HPSodium	\$9.61	\$10.70	\$11.95	\$13.03
	400 W HPSodium	\$12.42	\$13.89	\$16.10	\$17.55
	175 W Metal Halide	\$13.54	\$14.91	\$15.09	\$16.45
	30-40W LED	\$4.90	\$5.37	\$5.20	\$5.67
	50-75W LED	\$5.49	\$6.04	\$5.99	\$6.53
	110-165W LED	\$7.05	\$7.79	\$8.23	\$8.97
	200-250W LED	\$8.93	\$9.91	\$10.80	\$11.77

	Present	Proposed	Present	Proposed
Street Lighting Energy (A32)	Base Rates		Rates + Fuel	
100 W Mercury	\$2.45	\$2.61	\$3.42	\$3.57
175 W Mercury	\$3.64	\$3.84	\$5.19	\$5.38
250 W Mercury	\$4.94	\$5.18	\$7.12	\$7.34
400 W Mercury	\$7.69	\$8.01	\$11.20	\$11.51
700 W Mercury	\$12.78	\$13.27	\$18.77	\$19.23
1000 W Mercury	\$17.77	\$18.43	\$26.18	\$26.81
1F72HO Fluorescent	\$3.61	\$3.61	\$4.60	\$4.60
<30W LED	\$1.06	\$1.09	\$1.25	\$1.28
30-45W LED	\$1.34	\$1.32	\$1.64	\$1.62
50-75W LED	\$1.85	\$1.74	\$2.35	\$2.23
110-165W LED	\$3.44	\$3.20	\$4.62	\$4.38
200-250W LED	\$5.14	\$4.66	\$7.01	\$6.52
50 W HPSodium	\$1.37	\$1.49	\$1.81	\$1.93
70 W HPSodium	\$1.73	\$1.86	\$2.35	\$2.48
100 W HPSodium	\$2.29	\$2.45	\$3.18	\$3.34
150 W HPSodium	\$3.14	\$3.32	\$4.45	\$4.62
200 W HPSodium	\$4.18	\$4.40	\$5.99	\$6.20
250 W HPSodium	\$5.28	\$5.53	\$7.62	\$7.86
400 W HPSodium	\$8.03	\$8.37	\$11.71	\$12.03
750 W HPSodium	\$13.80	\$14.31	\$20.28	\$20.76

Street Lighting Energy - Metered (A34)	Base Rates		Rates + Fuel	
Customer / Mo.	\$5.00	\$5.50	\$5.00	\$5.50
Energy Charge per kWh	4.534 ¢	4.680 ¢	6.752 ¢	6.891 ¢

Street Lighting Energy - City of St. Paul (A37)	Base Rates		Rates + Fuel	
100 W HPSodium	\$5.48	\$5.65	\$6.37	\$6.54
150 W HPSodium	\$6.14	\$6.34	\$7.45	\$7.64
250 W HPSodium	\$8.60	\$9.02	\$10.94	\$11.35

Fuel Cost - Retail	Present			Proposed		
	Summer	Winter	Annual	Summer	Winter	Annual
Retail	3.025 ¢	2.639 ¢	2.781 ¢	3.025 ¢	2.639 ¢	2.781 ¢
Residential	3.079 ¢	2.686 ¢	2.830 ¢	3.058 ¢	2.668 ¢	2.811 ¢
C&I - Non-Demand	3.117 ¢	2.719 ¢	2.866 ¢	3.197 ¢	2.789 ¢	2.939 ¢
C&I-Dmd - Non-TOD			2.777 ¢			2.787 ¢
C&I-Dmd -TOD On-Peak			3.472 ¢			3.483 ¢
C&I-Dmd -TOD Off-Peak			2.271 ¢			2.279 ¢
Lighting			2.218 ¢			2.211 ¢

		Present	Proposed	Present	Proposed
Residential (A01, A03)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Overhead - Electric Sp Ht	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
	Underground - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
Energy / kWh	Summer	10.301 ¢	12.374 ¢	13.380 ¢	15.432 ¢
	Winter	8.803 ¢	10.722 ¢	11.489 ¢	13.390 ¢
	Winter - Electric Space Heat	5.988 ¢	7.358 ¢	8.674 ¢	10.026 ¢

		Present	Proposed	Present	Proposed
Residential Time of Day (A02, A04)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$12.00	\$13.50	\$12.00	\$13.50
	Overhead - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
	Underground - Electric Sp Ht	\$14.00	\$15.50	\$14.00	\$15.50
Energy / kWh	On-Peak Summer	20.497 ¢	24.174 ¢	23.576 ¢	27.232 ¢
	On-Peak Winter	16.508 ¢	19.767 ¢	19.194 ¢	22.435 ¢
	On-Peak Winter -Elec. Sp Ht	9.284 ¢	11.085 ¢	11.970 ¢	13.753 ¢
	Off-Peak Summer	4.170 ¢	5.300 ¢	7.249 ¢	8.358 ¢
	Off-Peak Winter	4.170 ¢	5.300 ¢	6.856 ¢	7.968 ¢

		Present	Proposed	Present	Proposed
Residential Electric Vehicle		Base Rates		Rates + Fuel	
Customer / Mo.	A08 EV Service	\$4.95	\$5.50	\$4.95	\$5.50
	A80 EV Pilot Bundled	\$17.47	\$18.00	\$17.47	\$18.00
	A81 EV Pilot Pre-Pay	\$7.10	\$7.50	\$7.10	\$7.50
Energy / kWh	On-Peak Summer	20.497 ¢	24.174 ¢	23.576 ¢	27.232 ¢
	On-Peak Winter	16.508 ¢	19.767 ¢	19.194 ¢	22.435 ¢
	Off-Peak Summer	4.170 ¢	5.300 ¢	7.249 ¢	8.358 ¢
	Off-Peak Winter	4.170 ¢	5.300 ¢	6.856 ¢	7.968 ¢

		Present	Proposed	Present	Proposed
Residential Time of Use Pilot (A72, A74)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	On-Peak Summer	22.576 ¢	24.726 ¢	25.655 ¢	27.784 ¢
	On-Peak Winter	19.266 ¢	21.895 ¢	21.952 ¢	24.563 ¢
	Mid-Peak Summer	9.013 ¢	10.037 ¢	12.092 ¢	13.095 ¢
	Mid-Peak Winter	7.515 ¢	8.746 ¢	10.201 ¢	11.414 ¢
	Off-Peak Summer	2.784 ¢	3.396 ¢	5.863 ¢	6.454 ¢
	Off-Peak Winter	2.784 ¢	3.396 ¢	5.470 ¢	6.064 ¢

		Present	Proposed	Present	Proposed
Energy-Controlled Non-Demand (A05)		Base Rates		Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	Standard Resid.	4.4870 ¢	5.7560 ¢	7.317 ¢	8.567 ¢
	Standard Comm.	4.4870 ¢	5.7560 ¢	7.353 ¢	8.695 ¢
	Optional Resid. - Summer	10.301 ¢	12.374 ¢	13.380 ¢	15.432 ¢
	Optional Comm.- Summer	9.256 ¢	11.273 ¢	12.373 ¢	14.470 ¢

		Present	Proposed	Present	Proposed
Limited Off-Peak (A06)		Base Rates		Rates + Fuel	
Customer / Mo.	Residential	\$4.95	\$5.50	\$4.95	\$5.50
	Commercial Sec. 1 Phase	\$10.00	\$11.00	\$10.00	\$11.00
	Commercial Sec. 3 Phase	\$13.60	\$15.00	\$13.60	\$15.00
	Commercial Higher Voltages	\$60.00	\$60.00	\$60.00	\$60.00
Energy / kWh	Residential On-Peak	36.000 ¢	40.800 ¢	38.830 ¢	43.611 ¢
	Commercial On-Peak	36.000 ¢	40.800 ¢	38.866 ¢	43.739 ¢
	Residential Secondary	3.665 ¢	4.770 ¢	6.495 ¢	7.581 ¢
	Commercial Secondary	3.665 ¢	4.770 ¢	6.531 ¢	7.709 ¢
	Commercial Primary	3.560 ¢	4.650 ¢	6.426 ¢	7.589 ¢
	Commercial T Trnsfrmd	3.398 ¢	4.475 ¢	6.264 ¢	7.413 ¢
	Commercial Transmision	3.388 ¢	4.464 ¢	6.254 ¢	7.403 ¢

		Present	Proposed	Present	Proposed
Small General (A09, A10, A11, A13)		Base Rates		Rates + Fuel	
Customer / Mo.	Metered (A10)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A09)	\$8.00	\$9.50	\$8.00	\$9.50
Demand / kW	Direct Current	\$3.61	\$4.00	\$3.61	\$4.00
Energy / kWh	Summer	9.256 ¢	11.273 ¢	12.373 ¢	14.470 ¢
	Winter	7.757 ¢	9.621 ¢	10.476 ¢	12.410 ¢

		Present	Proposed	Present	Proposed
Small Municipal Pumping (A40)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	Summer	9.256 ¢	11.273 ¢	12.373 ¢	14.470 ¢
	Winter	7.757 ¢	9.621 ¢	10.476 ¢	12.410 ¢

		Present	Proposed	Present	Proposed
Small General TOD (A12, A16, A18, A22)		Base Rates		Rates + Fuel	
Customer / Mo.	TOD Metered (A12)	\$12.00	\$13.50	\$12.00	\$13.50
	KWH Metered (A16)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A18)	\$8.00	\$9.50	\$8.00	\$9.50
	Low Wattage <100W (A22)	\$0.30	\$0.33	\$0.30	\$0.33
	Low Wattage <400W (A22)	\$1.20	\$1.30	\$1.20	\$1.30
Energy / kWh	On-Peak Summer	14.880 ¢	17.846 ¢	17.997 ¢	21.043 ¢
	On-Peak Winter	11.723 ¢	14.374 ¢	14.442 ¢	17.163 ¢
	Off-Peak Summer	4.170 ¢	5.300 ¢	7.287 ¢	8.497 ¢
	Off-Peak Winter	4.170 ¢	5.300 ¢	6.889 ¢	8.089 ¢
	Constant Use - Summer	7.919 ¢	9.691 ¢	11.036 ¢	12.888 ¢
	Constant Use - Winter	6.814 ¢	8.476 ¢	9.533 ¢	11.265 ¢
Demand-Metered Voltage Discounts		Base Rates		Rates + Fuel	
Voltage Discount / kWh	Primary	0.105 ¢	0.120 ¢	0.105 ¢	0.120 ¢
	Transmission Transformed	0.267 ¢	0.295 ¢	0.267 ¢	0.295 ¢
	Transmission	0.277 ¢	0.306 ¢	0.277 ¢	0.306 ¢
Voltage Discount / kW	Primary	\$0.80	\$0.60	\$0.80	\$0.60
	Transmission Transformed	\$1.55	\$1.80	\$1.55	\$1.80
	Transmission	\$2.35	\$2.75	\$2.35	\$2.75

General (A14)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Energy / kWh		3.407 ¢	4.211 ¢	6.184 ¢	6.998 ¢
Energy Credit / kWh		-1.518 ¢	-1.775 ¢	-1.518 ¢	-1.775 ¢

Municipal Pumping (A41)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Energy / kWh		3.407 ¢	4.211 ¢	6.184 ¢	6.998 ¢
Energy Credit / kWh		-1.518 ¢	-1.775 ¢	-1.518 ¢	-1.775 ¢

		Present	Proposed	Present	Proposed
General Time of Day (A15)		Base Rates		Rates + Fuel	
Customer / Mo.	Standard A15)	\$29.64	\$31.00	\$29.64	\$31.00
	kWh Metered (A17)	\$25.64	\$27.00	\$25.64	\$27.00
	Unmetered (A19)	\$21.64	\$23.00	\$21.64	\$23.00
On-Peak Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Off-Peak Demand / kW		\$2.35	\$2.75	\$2.35	\$2.75
Energy / kWh	On-Peak	4.855 ¢	5.984 ¢	8.327 ¢	9.467 ¢
	Off-Peak	2.341 ¢	2.919 ¢	4.612 ¢	5.198 ¢
Energy Credit / kWh		-1.518 ¢	-1.775 ¢	-1.518 ¢	-1.775 ¢

		Present	Proposed	Present	Proposed
Hiawatha Light Rail Line (A29)		Base Rates		Rates + Fuel	
Customer / Mo.		\$100.00	\$100.00	\$100.00	\$100.00
Generation Demand / kW	Summer	\$8.71	\$9.40	\$8.71	\$9.40
	Winter	\$4.41	\$4.90	\$4.41	\$4.90
Transmission & Distribution Demand / kW		\$5.28	\$7.09	\$5.28	\$7.09
Off-Peak Demand / kW	Primary	\$1.55	\$2.15	\$1.55	\$2.15
Energy / kWh	On-Peak Primary	4.750 ¢	5.864 ¢	8.222 ¢	9.347 ¢
	Off-Peak Primary	2.236 ¢	2.799 ¢	4.507 ¢	5.078 ¢
Energy Credit / kWh		-1.303 ¢	-1.520 ¢	-1.303 ¢	-1.520 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled (A23)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
Firm Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Control Demand / kW	Tier 2 - Level A	\$8.88	\$10.98	\$8.88	\$10.98
	Tier 2 - Level B	\$7.86	\$9.83	\$7.86	\$9.83
	Tier 2 - Level C	\$7.34	\$9.29	\$7.34	\$9.29
	Tier 1 - Level B	\$7.15	\$9.09	\$7.15	\$9.09
	Tier 1 - Level C	\$6.56	\$8.47	\$6.56	\$8.47
	Tier 1 - Short Notice	\$6.09	\$7.97	\$6.09	\$7.97
Energy / kWh		3.407 ¢	4.211 ¢	6.184 ¢	6.998 ¢
Energy Credit / kWh		-1.518 ¢	-1.775 ¢	-1.518 ¢	-1.775 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled TOD (A24)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Control Demand / kW	Tier 2 - Level A	\$8.88	\$10.98	\$8.88	\$10.98
	Tier 2 - Level B	\$7.86	\$9.83	\$7.86	\$9.83
	Tier 2 - Level C	\$7.34	\$9.29	\$7.34	\$9.29
	Tier 1 - Level B	\$7.15	\$9.09	\$7.15	\$9.09
	Tier 1 - Level C	\$6.56	\$8.47	\$6.56	\$8.47
	Tier 1 - Short Notice	\$6.09	\$7.97	\$6.09	\$7.97
Off-Peak Demand / kW		\$2.35	\$2.75	\$2.35	\$2.75
Energy / kWh	On-Peak	4.855 ¢	5.984 ¢	8.327 ¢	9.467 ¢
	Off-Peak	2.341 ¢	2.919 ¢	4.612 ¢	5.198 ¢
Energy Credit / kWh		-1.5180 ¢	-1.7750 ¢	-1.5180 ¢	-1.7750 ¢

		Present	Proposed	Present	Proposed
Tier 1 Energy-Controlled Rider (A27)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$17.09	\$14.79	\$17.09
	Winter	\$10.49	\$12.59	\$10.49	\$12.59
Control Demand / kW	Tier 1 - Level B	\$7.15	\$9.09	\$7.15	\$9.09
	Tier 1 - Level C	\$6.56	\$8.47	\$6.56	\$8.47
	Tier 1 - Short Notice	\$6.09	\$7.97	\$6.09	\$7.97
Off-Peak Demand / kW		\$2.35	\$2.75	\$2.35	\$2.75
Energy / kWh	Firm On-Peak	4.855 ¢	5.984 ¢	8.327 ¢	9.467 ¢
	Firm Off-Peak	2.341 ¢	2.919 ¢	4.612 ¢	5.198 ¢
	Controllable On-Peak	4.647 ¢	5.775 ¢	8.119 ¢	9.258 ¢
	Controllable Off-Peak	2.280 ¢	2.893 ¢	4.551 ¢	5.172 ¢
	Control Period Energy	9.000 ¢	9.000 ¢	12.472 ¢	12.483 ¢
Energy Credit / kWh		-1.518 ¢	-1.775 ¢	-1.518 ¢	-1.775 ¢

	Present	Proposed
Fire & Civil Defense Siren (A42)		
HP Capacity / Mo.	\$0.76	\$0.83
Min Charge / Mo.	\$3.66	\$4.02

Standby Service Rider Supplemental Generation Service Rider				
Customer / Mo.			\$25.64	\$27.00
Demand / Contract kW	Standby	Unscheduled Maint	\$3.06	\$3.59
	Standby	Scheduled Maint	\$2.96	\$3.49
	Standby	Non-Firm	\$2.35	\$2.75
		Supplemental	\$3.40	\$4.01
Peak Surcharge / kWh	Standby	Summer	6.312 ¢	7.276 ¢
	Standby	Winter	4.130 ¢	4.993 ¢

Photovoltaic Demand Credit Rider (A85, A86)				
Customer / Mo.			\$25.75	\$27.00
Peak Credit / kWh	A85	Closed	7.139 ¢	7.139 ¢
	A86	Standard	7.139 ¢	7.139 ¢

		Present	Proposed	Present	Proposed
Automatic Protective Lighting (A07)		Base Rates		Rates + Fuel	
Area	100 W HPSodium	\$7.41	\$8.59	\$8.32	\$9.49
	175 W Mercury	\$7.41	\$8.59	\$8.98	\$10.25
	250 W HPSodium	\$11.83	\$13.77	\$14.21	\$16.14
	400 W Mercury	\$11.83	\$13.77	\$15.40	\$17.51
	30-40W LED	\$7.28	\$8.46	\$7.58	\$8.76
	110-165W LED	\$11.33	\$13.27	\$12.53	\$14.47
Directional	250 W HPSodium	\$14.08	\$14.37	\$16.46	\$16.74
	400 W HPSodium	\$17.62	\$18.44	\$21.36	\$22.16
	1000 W Mercury	\$27.33	\$26.56	\$35.88	\$35.07

		Present	Proposed	Present	Proposed
Street Lighting System (A30)		Base Rates		Rates + Fuel	
Overhead	70 W HPSodium	\$9.63	\$12.96	\$10.26	\$13.59
	100 W HPSodium	\$10.17	\$13.55	\$11.08	\$14.45
	150 W HPSodium	\$10.95	\$14.56	\$12.28	\$15.88
	200 W HPSodium	\$12.88	\$16.40	\$14.72	\$18.23
	250 W HPSodium	\$13.87	\$17.50	\$16.25	\$19.87
	400 W HPSodium	\$16.85	\$21.02	\$20.59	\$24.74
	175 W Metal Halide	\$14.98	\$17.84	\$16.55	\$19.41
	30-40W LED	\$10.32	\$13.07	\$10.62	\$13.37
	50-75W LED	\$11.01	\$13.76	\$11.51	\$14.26
	110-165W LED	\$14.46	\$16.90	\$15.66	\$18.10
	200-250W LED	\$17.98	\$20.31	\$19.88	\$22.20
Underground	70 W HPSodium	\$19.54	\$23.59	\$20.17	\$24.22
	100 W HPSodium	\$20.07	\$24.18	\$20.98	\$25.08
	150 W HPSodium	\$20.86	\$25.19	\$22.19	\$26.51
	250 W HPSodium	\$23.38	\$27.92	\$25.76	\$30.29
	400 W HPSodium	\$26.06	\$31.28	\$29.80	\$35.00
	175 W Metal Halide	\$27.90	\$31.92	\$29.47	\$33.49
	30-40W LED	\$20.22	\$23.70	\$20.52	\$24.00
	50-75W LED	\$20.91	\$24.39	\$21.41	\$24.89
	110-165W LED	\$23.96	\$27.31	\$25.16	\$28.51
	200-250W LED	\$27.19	\$30.57	\$29.09	\$32.46
Decorative UG	100 W HPSodium	\$31.67	\$35.83	\$32.58	\$36.73
	150 W HPSodium	\$32.84	\$37.04	\$34.17	\$38.36
	250 W HPSodium	\$34.89	\$39.52	\$37.27	\$41.89
	400 W HPSodium	\$37.38	\$42.78	\$41.12	\$46.50
	175 W Metal Halide	\$37.38	\$42.78	\$38.95	\$44.35
Pre-Pay Option	70 W HPSodium	\$5.97	\$6.56	\$6.60	\$7.19
	100 W HPSodium	\$6.66	\$7.35	\$7.57	\$8.25
	150 W HPSodium	\$7.54	\$8.35	\$8.87	\$9.67
	250 W HPSodium	\$9.61	\$10.70	\$11.99	\$13.07
	400 W HPSodium	\$12.42	\$13.89	\$16.16	\$17.61
	175 W Metal Halide	\$13.54	\$14.90	\$15.11	\$16.47
	30-40W LED	\$4.90	\$5.37	\$5.20	\$5.67
	50-75W LED	\$5.49	\$6.03	\$5.99	\$6.53
	110-165W LED	\$7.05	\$7.79	\$8.25	\$8.99
	200-250W LED	\$8.93	\$9.91	\$10.83	\$11.80

	Present	Proposed	Present	Proposed
Street Lighting Energy (A32)	Base Rates		Rates + Fuel	
100 W Mercury	\$2.45	\$2.71	\$3.43	\$3.69
175 W Mercury	\$3.64	\$4.00	\$5.21	\$5.56
250 W Mercury	\$4.94	\$5.39	\$7.15	\$7.60
400 W Mercury	\$7.69	\$8.37	\$11.26	\$11.92
700 W Mercury	\$12.78	\$13.87	\$18.86	\$19.92
1000 W Mercury	\$17.77	\$19.27	\$26.32	\$27.78
1F72HO Fluorescent	\$3.61	\$3.61	\$4.62	\$4.61
<30W LED	\$1.06	\$1.11	\$1.25	\$1.31
30-45W LED	\$1.34	\$1.35	\$1.64	\$1.65
50-75W LED	\$1.85	\$1.79	\$2.35	\$2.29
110-165W LED	\$3.44	\$3.32	\$4.64	\$4.52
200-250W LED	\$5.14	\$4.85	\$7.04	\$6.74
50 W HPSodium	\$1.37	\$1.53	\$1.82	\$1.98
70 W HPSodium	\$1.73	\$1.93	\$2.36	\$2.55
100 W HPSodium	\$2.29	\$2.54	\$3.20	\$3.44
150 W HPSodium	\$3.14	\$3.45	\$4.47	\$4.77
200 W HPSodium	\$4.18	\$4.58	\$6.02	\$6.41
250 W HPSodium	\$5.28	\$5.77	\$7.66	\$8.14
400 W HPSodium	\$8.03	\$8.74	\$11.77	\$12.46
750 W HPSodium	\$13.80	\$14.96	\$20.38	\$21.51

Street Lighting Energy - Metered (A34)	Base Rates		Rates + Fuel	
Customer / Mo.	\$5.00	\$5.50	\$5.00	\$5.50
Energy Charge per kWh	4.534 ¢	4.901 ¢	6.752 ¢	7.112 ¢

Street Lighting Energy - City of St. Paul (A37)	Base Rates		Rates + Fuel	
100 W HPSodium	\$5.48	\$5.64	\$6.37	\$6.54
150 W HPSodium	\$6.14	\$6.32	\$7.45	\$7.64
250 W HPSodium	\$8.60	\$9.01	\$10.94	\$11.38

Fuel Cost - Retail	Present			Proposed		
	Summer	Winter	Annual	Summer	Winter	Annual
Retail	3.025 ¢	2.639 ¢	2.781 ¢	3.025 ¢	2.639 ¢	2.781 ¢
Residential	3.079 ¢	2.686 ¢	2.830 ¢	3.058 ¢	2.668 ¢	2.811 ¢
C&I - Non-Demand	3.117 ¢	2.719 ¢	2.866 ¢	3.197 ¢	2.789 ¢	2.939 ¢
C&I-Dmd - Non-TOD			2.777 ¢			2.787 ¢
C&I-Dmd -TOD On-Peak			3.472 ¢			3.483 ¢
C&I-Dmd -TOD Off-Peak			2.271 ¢			2.279 ¢
Lighting			2.218 ¢			2.211 ¢

		Present	Proposed	Present	Proposed
Residential (A01, A03)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Overhead - Electric Sp Ht	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
	Underground - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
Energy / kWh	Summer	10.301 ¢	13.020 ¢	13.380 ¢	16.078 ¢
	Winter	8.803 ¢	11.322 ¢	11.489 ¢	13.990 ¢
	Winter - Electric Space Heat	5.988 ¢	7.811 ¢	8.674 ¢	10.479 ¢

		Present	Proposed	Present	Proposed
Residential Time of Day (A02, A04)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
	Underground	\$12.00	\$13.50	\$12.00	\$13.50
	Overhead - Electric Sp Ht	\$12.00	\$13.50	\$12.00	\$13.50
	Underground - Electric Sp Ht	\$14.00	\$15.50	\$14.00	\$15.50
Energy / kWh	On-Peak Summer	20.497 ¢	25.357 ¢	23.576 ¢	28.415 ¢
	On-Peak Winter	16.508 ¢	20.827 ¢	19.194 ¢	23.495 ¢
	On-Peak Winter -Elec. Sp Ht	9.284 ¢	11.771 ¢	11.970 ¢	14.439 ¢
	Off-Peak Summer	4.170 ¢	5.624 ¢	7.249 ¢	8.682 ¢
	Off-Peak Winter	4.170 ¢	5.624 ¢	6.856 ¢	8.292 ¢

		Present	Proposed	Present	Proposed
Residential Electric Vehicle		Base Rates		Rates + Fuel	
Customer / Mo.	A08 EV Service	\$4.95	\$5.50	\$4.95	\$5.50
	A80 EV Pilot Bundled	\$17.47	\$18.00	\$17.47	\$18.00
	A81 EV Pilot Pre-Pay	\$7.10	\$7.50	\$7.10	\$7.50
Energy / kWh	On-Peak Summer	20.497 ¢	25.357 ¢	23.576 ¢	28.415 ¢
	On-Peak Winter	16.508 ¢	20.827 ¢	19.194 ¢	23.495 ¢
	Off-Peak Summer	4.170 ¢	5.624 ¢	7.249 ¢	8.682 ¢
	Off-Peak Winter	4.170 ¢	5.624 ¢	6.856 ¢	8.292 ¢

		Present	Proposed	Present	Proposed
Residential Time of Use Pilot (A72, A74)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$8.00	\$9.50	\$8.00	\$9.50
	Underground	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	On-Peak Summer	22.576 ¢	24.726 ¢	25.655 ¢	27.784 ¢
	On-Peak Winter	19.266 ¢	21.895 ¢	21.952 ¢	24.563 ¢
	Mid-Peak Summer	9.013 ¢	10.037 ¢	12.092 ¢	13.095 ¢
	Mid-Peak Winter	7.515 ¢	8.746 ¢	10.201 ¢	11.414 ¢
	Off-Peak Summer	2.784 ¢	3.396 ¢	5.863 ¢	6.454 ¢
	Off-Peak Winter	2.784 ¢	3.396 ¢	5.470 ¢	6.064 ¢

		Present	Proposed	Present	Proposed
Energy-Controlled Non-Demand (A05)		Base Rates		Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	Standard Resid.	4.4870 ¢	6.1730 ¢	7.317 ¢	8.984 ¢
	Standard Comm.	4.4870 ¢	6.1730 ¢	7.353 ¢	9.112 ¢
	Optional Resid. - Summer	10.301 ¢	13.020 ¢	13.380 ¢	16.078 ¢
	Optional Comm.- Summer	9.256 ¢	11.780 ¢	12.373 ¢	14.977 ¢

		Present	Proposed	Present	Proposed
Limited Off-Peak (A06)		Base Rates		Rates + Fuel	
Customer / Mo.	Residential	\$4.95	\$5.50	\$4.95	\$5.50
	Commercial Sec. 1 Phase	\$10.00	\$11.00	\$10.00	\$11.00
	Commercial Sec. 3 Phase	\$13.60	\$15.00	\$13.60	\$15.00
	Commercial Higher Voltages	\$60.00	\$60.00	\$60.00	\$60.00
Energy / kWh	Residential On-Peak	36.000 ¢	42.500 ¢	38.830 ¢	45.311 ¢
	Commercial On-Peak	36.000 ¢	42.500 ¢	38.866 ¢	45.439 ¢
	Residential Secondary	3.665 ¢	5.094 ¢	6.495 ¢	7.905 ¢
	Commercial Secondary	3.665 ¢	5.094 ¢	6.531 ¢	8.033 ¢
	Commercial Primary	3.560 ¢	4.970 ¢	6.426 ¢	7.909 ¢
	Commercial T Trnsfrmd	3.398 ¢	4.789 ¢	6.264 ¢	7.728 ¢
	Commercial Transmission	3.388 ¢	4.778 ¢	6.254 ¢	7.717 ¢

		Present	Proposed	Present	Proposed
Small General (A09, A10, A11, A13)		Base Rates		Rates + Fuel	
Customer / Mo.	Metered (A10)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A09)	\$8.00	\$9.50	\$8.00	\$9.50
Demand / kW	Direct Current	\$3.61	\$4.05	\$3.61	\$4.05
Energy / kWh	Summer	9.256 ¢	11.780 ¢	12.373 ¢	14.977 ¢
	Winter	7.757 ¢	10.081 ¢	10.476 ¢	12.870 ¢

		Present	Proposed	Present	Proposed
Small Municipal Pumping (A40)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$11.50	\$10.00	\$11.50
Energy / kWh	Summer	9.256 ¢	11.780 ¢	12.373 ¢	14.977 ¢
	Winter	7.757 ¢	10.081 ¢	10.476 ¢	12.870 ¢

		Present	Proposed	Present	Proposed
Small General TOD (A12, A16, A18, A22)		Base Rates		Rates + Fuel	
Customer / Mo.	TOD Metered (A12)	\$12.00	\$13.50	\$12.00	\$13.50
	KWH Metered (A16)	\$10.00	\$11.50	\$10.00	\$11.50
	Unmetered (A18)	\$8.00	\$9.50	\$8.00	\$9.50
	Low Wattage <100W (A22)	\$0.30	\$0.34	\$0.30	\$0.34
	Low Wattage <400W (A22)	\$1.20	\$1.32	\$1.20	\$1.32
Energy / kWh	On-Peak Summer	14.880 ¢	18.554 ¢	17.997 ¢	21.751 ¢
	On-Peak Winter	11.723 ¢	14.984 ¢	14.442 ¢	17.773 ¢
	Off-Peak Summer	4.170 ¢	5.624 ¢	7.287 ¢	8.821 ¢
	Off-Peak Winter	4.170 ¢	5.624 ¢	6.889 ¢	8.413 ¢
	Constant Use - Summer	7.919 ¢	10.150 ¢	11.036 ¢	13.347 ¢
	Constant Use - Winter	6.814 ¢	8.900 ¢	9.533 ¢	11.689 ¢
Demand-Metered Voltage Discounts		Base Rates		Rates + Fuel	
Voltage Discount / kWh	Primary	0.105 ¢	0.124 ¢	0.105 ¢	0.124 ¢
	Transmission Transformed	0.267 ¢	0.305 ¢	0.267 ¢	0.305 ¢
	Transmission	0.277 ¢	0.316 ¢	0.277 ¢	0.316 ¢
Voltage Discount / kW	Primary	\$0.80	\$0.60	\$0.80	\$0.60
	Transmission Transformed	\$1.55	\$2.00	\$1.55	\$2.00
	Transmission	\$2.35	\$3.00	\$2.35	\$3.00
General (A14)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Energy / kWh		3.407 ¢	4.430 ¢	6.184 ¢	7.217 ¢
Energy Credit / kWh		-1.518 ¢	-1.868 ¢	-1.518 ¢	-1.868 ¢
Municipal Pumping (A41)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.64	\$27.00	\$25.64	\$27.00
Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Energy / kWh		3.407 ¢	4.430 ¢	6.184 ¢	7.217 ¢
Energy Credit / kWh		-1.518 ¢	-1.868 ¢	-1.518 ¢	-1.868 ¢

		Present	Proposed	Present	Proposed
General Time of Day (A15)		Base Rates		Rates + Fuel	
Customer / Mo.	Standard A15)	\$29.64	\$31.00	\$29.64	\$31.00
	kWh Metered (A17)	\$25.64	\$27.00	\$25.64	\$27.00
	Unmetered (A19)	\$21.64	\$23.00	\$21.64	\$23.00
On-Peak Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Off-Peak Demand / kW		\$2.35	\$3.00	\$2.35	\$3.00
Energy / kWh	On-Peak	4.855 ¢	6.296 ¢	8.327 ¢	9.779 ¢
	Off-Peak	2.341 ¢	3.071 ¢	4.612 ¢	5.350 ¢
Energy Credit / kWh		-1.518 ¢	-1.868 ¢	-1.518 ¢	-1.868 ¢

		Present	Proposed	Present	Proposed
Hiawatha Light Rail Line (A29)		Base Rates		Rates + Fuel	
Customer / Mo.		\$100.00	\$100.00	\$100.00	\$100.00
Generation Demand / kW	Summer	\$8.71	\$9.60	\$8.71	\$9.60
	Winter	\$4.41	\$4.99	\$4.41	\$4.99
Transmission & Distribution Demand / kW		\$5.28	\$7.34	\$5.28	\$7.34
Off-Peak Demand / kW	Primary	\$1.55	\$2.40	\$1.55	\$2.40
Energy / kWh	On-Peak Primary	4.750 ¢	6.172 ¢	8.222 ¢	9.655 ¢
	Off-Peak Primary	2.236 ¢	2.947 ¢	4.507 ¢	5.226 ¢
Energy Credit / kWh		-1.303 ¢	-1.600 ¢	-1.303 ¢	-1.600 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled (A23)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
Firm Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Control Demand / kW	Tier 2 - Level A	\$8.88	\$11.36	\$8.88	\$11.36
	Tier 2 - Level B	\$7.86	\$10.21	\$7.86	\$10.21
	Tier 2 - Level C	\$7.34	\$9.67	\$7.34	\$9.67
	Tier 1 - Level B	\$7.15	\$9.47	\$7.15	\$9.47
	Tier 1 - Level C	\$6.56	\$8.85	\$6.56	\$8.85
	Tier 1 - Short Notice	\$6.09	\$8.35	\$6.09	\$8.35
Energy / kWh		3.407 ¢	4.430 ¢	6.184 ¢	7.217 ¢
Energy Credit / kWh		-1.518 ¢	-1.868 ¢	-1.518 ¢	-1.868 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled TOD (A24)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Control Demand / kW	Tier 2 - Level A	\$8.88	\$11.36	\$8.88	\$11.36
	Tier 2 - Level B	\$7.86	\$10.21	\$7.86	\$10.21
	Tier 2 - Level C	\$7.34	\$9.67	\$7.34	\$9.67
	Tier 1 - Level B	\$7.15	\$9.47	\$7.15	\$9.47
	Tier 1 - Level C	\$6.56	\$8.85	\$6.56	\$8.85
	Tier 1 - Short Notice	\$6.09	\$8.35	\$6.09	\$8.35
Off-Peak Demand / kW		\$2.35	\$3.00	\$2.35	\$3.00
Energy / kWh	On-Peak	4.855 ¢	6.296 ¢	8.327 ¢	9.779 ¢
	Off-Peak	2.341 ¢	3.071 ¢	4.612 ¢	5.350 ¢
Energy Credit / kWh		-1.5180 ¢	-1.8680 ¢	-1.5180 ¢	-1.8680 ¢

		Present	Proposed	Present	Proposed
Tier 1 Energy-Controlled Rider (A27)		Base Rates		Rates + Fuel	
Customer / Mo.		\$55.00	\$60.00	\$55.00	\$60.00
On-Peak Demand / kW	Summer	\$14.79	\$17.54	\$14.79	\$17.54
	Winter	\$10.49	\$12.93	\$10.49	\$12.93
Control Demand / kW	Tier 1 - Level B	\$7.15	\$9.47	\$7.15	\$9.47
	Tier 1 - Level C	\$6.56	\$8.85	\$6.56	\$8.85
	Tier 1 - Short Notice	\$6.09	\$8.35	\$6.09	\$8.35
Off-Peak Demand / kW		\$2.35	\$3.00	\$2.35	\$3.00
Energy / kWh	Firm On-Peak	4.855 ¢	6.296 ¢	8.327 ¢	9.779 ¢
	Firm Off-Peak	2.341 ¢	3.071 ¢	4.612 ¢	5.350 ¢
	Controllable On-Peak	4.647 ¢	6.086 ¢	8.119 ¢	9.569 ¢
	Controllable Off-Peak	2.280 ¢	3.047 ¢	4.551 ¢	5.326 ¢
	Control Period Energy	9.000 ¢	9.000 ¢	12.472 ¢	12.483 ¢
Energy Credit / kWh		-1.518 ¢	-1.868 ¢	-1.518 ¢	-1.868 ¢

	Present	Proposed
Fire & Civil Defense Siren (A42)		
HP Capacity / Mo.	\$0.76	\$0.83
Min Charge / Mo.	\$3.66	\$4.02

Standby Service Rider				
Supplemental Generation Service Rider				
Customer / Mo.			\$25.64	\$27.00
Demand / Contract kW	Standby	Unscheduled Maint	\$3.06	\$3.85
	Standby	Scheduled Maint	\$2.96	\$3.75
	Standby	Non-Firm	\$2.35	\$3.00
		Supplemental	\$3.40	\$4.28
Peak Surcharge / kWh	Standby	Summer	6.312 ¢	7.378 ¢
	Standby	Winter	4.130 ¢	5.038 ¢

Photovoltaic Demand Credit Rider (A85, A86)				
Customer / Mo.			\$25.75	\$27.00
Peak Credit / kWh	A85	Closed	7.139 ¢	7.139 ¢
	A86	Standard	7.139 ¢	7.139 ¢

		Present	Proposed	Present	Proposed
Automatic Protective Lighting (A07)		Base Rates		Rates + Fuel	
Area	100 W HPSodium	\$7.41	\$8.99	\$8.32	\$9.90
	175 W Mercury	\$7.41	\$8.99	\$8.99	\$10.70
	250 W HPSodium	\$11.83	\$14.45	\$14.22	\$16.83
	400 W Mercury	\$11.83	\$14.45	\$15.41	\$18.25
	30-40W LED	\$7.28	\$8.86	\$7.58	\$9.16
	110-165W LED	\$11.33	\$13.95	\$12.54	\$15.15
Directional	250 W HPSodium	\$14.08	\$15.10	\$16.47	\$17.48
	400 W HPSodium	\$17.62	\$19.41	\$21.37	\$23.14
	1000 W Mercury	\$27.33	\$26.55	\$35.90	\$35.09

		Present	Proposed	Present	Proposed
Street Lighting System (A30)		Base Rates		Rates + Fuel	
Overhead	70 W HPSodium	\$9.63	\$13.32	\$10.26	\$13.95
	100 W HPSodium	\$10.17	\$13.92	\$11.08	\$14.83
	150 W HPSodium	\$10.95	\$14.94	\$12.28	\$16.26
	200 W HPSodium	\$12.88	\$16.84	\$14.72	\$18.68
	250 W HPSodium	\$13.87	\$17.97	\$16.26	\$20.35
	400 W HPSodium	\$16.85	\$21.54	\$20.60	\$25.27
	175 W Metal Halide	\$14.98	\$18.38	\$16.56	\$19.95
	30-40W LED	\$10.32	\$13.48	\$10.62	\$13.78
	50-75W LED	\$11.01	\$14.19	\$11.51	\$14.69
	110-165W LED	\$14.46	\$17.45	\$15.67	\$18.65
	200-250W LED	\$17.98	\$20.96	\$19.89	\$22.86
Underground	70 W HPSodium	\$19.54	\$24.12	\$20.17	\$24.75
	100 W HPSodium	\$20.07	\$24.71	\$20.98	\$25.62
	150 W HPSodium	\$20.86	\$25.74	\$22.19	\$27.06
	250 W HPSodium	\$23.38	\$28.53	\$25.77	\$30.91
	400 W HPSodium	\$26.06	\$31.93	\$29.81	\$35.66
	175 W Metal Halide	\$27.90	\$32.66	\$29.48	\$34.23
	30-40W LED	\$20.22	\$24.28	\$20.52	\$24.58
	50-75W LED	\$20.91	\$24.98	\$21.41	\$25.48
	110-165W LED	\$23.96	\$28.01	\$25.17	\$29.21
	200-250W LED	\$27.19	\$31.34	\$29.10	\$33.24
Decorative UG	100 W HPSodium	\$31.67	\$36.61	\$32.58	\$37.52
	150 W HPSodium	\$32.84	\$37.87	\$34.17	\$39.19
	250 W HPSodium	\$34.89	\$40.37	\$37.28	\$42.75
	400 W HPSodium	\$37.38	\$43.66	\$41.13	\$47.39
	175 W Metal Halide	\$37.38	\$43.66	\$38.96	\$45.23
Pre-Pay Option	70 W HPSodium	\$5.97	\$6.56	\$6.60	\$7.19
	100 W HPSodium	\$6.66	\$7.34	\$7.57	\$8.25
	150 W HPSodium	\$7.54	\$8.35	\$8.87	\$9.67
	250 W HPSodium	\$9.61	\$10.70	\$12.00	\$13.08
	400 W HPSodium	\$12.42	\$13.90	\$16.17	\$17.63
	175 W Metal Halide	\$13.54	\$14.91	\$15.12	\$16.48
	30-40W LED	\$4.90	\$5.37	\$5.20	\$5.67
	50-75W LED	\$5.49	\$6.03	\$5.99	\$6.53
	110-165W LED	\$7.05	\$7.80	\$8.26	\$9.00
	200-250W LED	\$8.93	\$9.92	\$10.84	\$11.82

	Present	Proposed	Present	Proposed
Street Lighting Energy (A32)	Base Rates		Rates + Fuel	
100 W Mercury	\$2.45	\$2.78	\$3.44	\$3.77
175 W Mercury	\$3.64	\$4.12	\$5.22	\$5.69
250 W Mercury	\$4.94	\$5.57	\$7.16	\$7.78
400 W Mercury	\$7.69	\$8.65	\$11.27	\$12.21
700 W Mercury	\$12.78	\$14.35	\$18.88	\$20.42
1000 W Mercury	\$17.77	\$19.95	\$26.34	\$28.48
1F72HO Fluorescent	\$3.61	\$3.61	\$4.62	\$4.62
<30W LED	\$1.06	\$1.13	\$1.25	\$1.32
30-45W LED	\$1.34	\$1.37	\$1.64	\$1.67
50-75W LED	\$1.85	\$1.83	\$2.35	\$2.33
110-165W LED	\$3.44	\$3.42	\$4.65	\$4.62
200-250W LED	\$5.14	\$5.00	\$7.05	\$6.90
50 W HPSodium	\$1.37	\$1.57	\$1.82	\$2.02
70 W HPSodium	\$1.73	\$1.98	\$2.36	\$2.60
100 W HPSodium	\$2.29	\$2.61	\$3.20	\$3.52
150 W HPSodium	\$3.14	\$3.56	\$4.47	\$4.88
200 W HPSodium	\$4.18	\$4.72	\$6.02	\$6.56
250 W HPSodium	\$5.28	\$5.95	\$7.67	\$8.33
400 W HPSodium	\$8.03	\$9.03	\$11.78	\$12.77
750 W HPSodium	\$13.80	\$15.48	\$20.40	\$22.05

Street Lighting Energy - Metered (A34)	Base Rates		Rates + Fuel	
Customer / Mo.	\$5.00	\$5.50	\$5.00	\$5.50
Energy Charge per kWh	4.534 ¢	5.078 ¢	6.752 ¢	7.289 ¢

Street Lighting Energy - City of St. Paul (A37)	Base Rates		Rates + Fuel	
100 W HPSodium	\$5.48	\$5.63	\$6.37	\$6.54
150 W HPSodium	\$6.14	\$6.32	\$7.45	\$7.64
250 W HPSodium	\$8.60	\$9.01	\$10.94	\$11.39

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Overhead) - A01

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$38.90	\$42.04	\$3.14	8.08%
	300	\$44.96	\$48.43	\$3.47	7.71%
	400	\$57.09	\$61.20	\$4.11	7.20%
	500	\$69.22	\$73.97	\$4.75	6.87%
	600	\$81.35	\$86.75	\$5.40	6.64%
	675	\$90.44	\$96.32	\$5.88	6.50%
	750	\$99.54	\$105.90	\$6.36	6.39%
	1000	\$129.86	\$137.83	\$7.97	6.14%
	1500	\$190.50	\$201.69	\$11.19	5.88%
	2000	\$251.14	\$265.55	\$14.41	5.74%
	3000	\$372.42	\$393.27	\$20.85	5.60%
	4000	\$493.70	\$520.99	\$27.29	5.53%
	5000	\$614.98	\$648.71	\$33.73	5.48%
SUMMER	250	\$43.63	\$47.00	\$3.37	7.73%
	300	\$50.64	\$54.38	\$3.74	7.39%
	400	\$64.66	\$69.13	\$4.48	6.92%
	500	\$78.67	\$83.88	\$5.21	6.62%
	600	\$92.69	\$98.64	\$5.95	6.41%
	675	\$103.21	\$109.70	\$6.50	6.30%
	750	\$113.72	\$120.77	\$7.05	6.20%
	1000	\$148.77	\$157.66	\$8.89	5.97%
	1500	\$218.86	\$231.43	\$12.56	5.74%
	2000	\$288.96	\$305.20	\$16.24	5.62%
	3000	\$429.15	\$452.74	\$23.59	5.50%
	4000	\$569.34	\$600.28	\$30.94	5.43%
	5000	\$709.52	\$747.82	\$38.30	5.40%
AVERAGE MONTHLY	250	\$40.48	\$43.70	\$3.22	7.96%
	300	\$46.85	\$50.41	\$3.56	7.59%
	400	\$59.61	\$63.85	\$4.23	7.10%
	500	\$72.37	\$77.28	\$4.91	6.78%
	600	\$85.13	\$90.71	\$5.58	6.56%
	675	\$94.70	\$100.78	\$6.09	6.43%
	750	\$104.27	\$110.86	\$6.59	6.32%
	1000	\$136.16	\$144.44	\$8.28	6.08%
	1500	\$199.95	\$211.60	\$11.65	5.83%
	2000	\$263.75	\$278.77	\$15.02	5.70%
	3000	\$391.33	\$413.09	\$21.76	5.56%
	4000	\$518.91	\$547.42	\$28.51	5.49%
	5000	\$646.50	\$681.75	\$35.25	5.45%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - A01

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$33.86	\$36.05	\$2.19	6.47%
	300	\$38.52	\$40.84	\$2.32	6.03%
	400	\$47.83	\$50.42	\$2.59	5.41%
	500	\$57.15	\$59.99	\$2.85	4.99%
	600	\$66.46	\$69.57	\$3.11	4.68%
	675	\$73.44	\$76.75	\$3.31	4.51%
	750	\$80.43	\$83.93	\$3.51	4.36%
	1000	\$103.71	\$107.87	\$4.16	4.01%
	1500	\$150.28	\$155.75	\$5.48	3.64%
	2000	\$196.84	\$203.63	\$6.79	3.45%
	3000	\$289.97	\$299.39	\$9.42	3.25%
	4000	\$383.10	\$395.15	\$12.05	3.14%
	5000	\$476.23	\$490.91	\$14.68	3.08%
SUMMER	250	\$45.63	\$49.00	\$3.37	7.39%
	300	\$52.64	\$56.38	\$3.74	7.11%
	400	\$66.66	\$71.13	\$4.48	6.71%
	500	\$80.67	\$85.88	\$5.21	6.46%
	600	\$94.69	\$100.64	\$5.95	6.28%
	675	\$105.21	\$111.70	\$6.50	6.18%
	750	\$115.72	\$122.77	\$7.05	6.09%
	1000	\$150.77	\$159.66	\$8.89	5.89%
	1500	\$220.86	\$233.43	\$12.56	5.69%
	2000	\$290.96	\$307.20	\$16.24	5.58%
	3000	\$431.15	\$454.74	\$23.59	5.47%
	4000	\$571.34	\$602.28	\$30.94	5.42%
	5000	\$711.52	\$749.82	\$38.30	5.38%
AVERAGE MONTHLY	250	\$37.78	\$40.37	\$2.59	6.84%
	300	\$43.22	\$46.02	\$2.80	6.47%
	400	\$54.11	\$57.32	\$3.22	5.94%
	500	\$64.99	\$68.62	\$3.64	5.59%
	600	\$75.87	\$79.93	\$4.06	5.35%
	675	\$84.03	\$88.40	\$4.37	5.20%
	750	\$92.19	\$96.88	\$4.69	5.08%
	1000	\$119.40	\$125.13	\$5.74	4.81%
	1500	\$173.80	\$181.64	\$7.84	4.51%
	2000	\$228.21	\$238.15	\$9.94	4.36%
	3000	\$337.03	\$351.17	\$14.14	4.20%
	4000	\$445.85	\$464.19	\$18.35	4.11%
	5000	\$554.66	\$577.21	\$22.55	4.07%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Underground) - A03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$40.90	\$44.04	\$3.14	7.69%
	300	\$46.96	\$50.43	\$3.47	7.38%
	400	\$59.09	\$63.20	\$4.11	6.96%
	500	\$71.22	\$75.97	\$4.75	6.67%
	600	\$83.35	\$88.75	\$5.40	6.48%
	675	\$92.44	\$98.32	\$5.88	6.36%
	750	\$101.54	\$107.90	\$6.36	6.27%
	1000	\$131.86	\$139.83	\$7.97	6.05%
	1500	\$192.50	\$203.69	\$11.19	5.81%
	2000	\$253.14	\$267.55	\$14.41	5.69%
	3000	\$374.42	\$395.27	\$20.85	5.57%
	4000	\$495.70	\$522.99	\$27.29	5.50%
	5000	\$616.98	\$650.71	\$33.73	5.47%
SUMMER	250	\$45.63	\$49.00	\$3.37	7.39%
	300	\$52.64	\$56.38	\$3.74	7.11%
	400	\$66.66	\$71.13	\$4.48	6.71%
	500	\$80.67	\$85.88	\$5.21	6.46%
	600	\$94.69	\$100.64	\$5.95	6.28%
	675	\$105.21	\$111.70	\$6.50	6.18%
	750	\$115.72	\$122.77	\$7.05	6.09%
	1000	\$150.77	\$159.66	\$8.89	5.89%
	1500	\$220.86	\$233.43	\$12.56	5.69%
	2000	\$290.96	\$307.20	\$16.24	5.58%
	3000	\$431.15	\$454.74	\$23.59	5.47%
	4000	\$571.34	\$602.28	\$30.94	5.42%
	5000	\$711.52	\$749.82	\$38.30	5.38%
AVERAGE MONTHLY	250	\$42.48	\$45.70	\$3.22	7.58%
	300	\$48.85	\$52.41	\$3.56	7.28%
	400	\$61.61	\$65.85	\$4.23	6.87%
	500	\$74.37	\$79.28	\$4.91	6.60%
	600	\$87.13	\$92.71	\$5.58	6.40%
	675	\$96.70	\$102.78	\$6.09	6.29%
	750	\$106.27	\$112.86	\$6.59	6.20%
	1000	\$138.16	\$146.44	\$8.28	5.99%
	1500	\$201.95	\$213.60	\$11.65	5.77%
	2000	\$265.75	\$280.77	\$15.02	5.65%
	3000	\$393.33	\$415.09	\$21.76	5.53%
	4000	\$520.91	\$549.42	\$28.51	5.47%
	5000	\$648.50	\$683.75	\$35.25	5.44%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - A03

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$35.86	\$38.05	\$2.19	6.11%
	300	\$40.52	\$42.84	\$2.32	5.73%
	400	\$49.83	\$52.42	\$2.59	5.19%
	500	\$59.15	\$61.99	\$2.85	4.82%
	600	\$68.46	\$71.57	\$3.11	4.55%
	675	\$75.44	\$78.75	\$3.31	4.39%
	750	\$82.43	\$85.93	\$3.51	4.25%
	1000	\$105.71	\$109.87	\$4.16	3.94%
	1500	\$152.28	\$157.75	\$5.48	3.60%
	2000	\$198.84	\$205.63	\$6.79	3.42%
	3000	\$291.97	\$301.39	\$9.42	3.23%
	4000	\$385.10	\$397.15	\$12.05	3.13%
	5000	\$478.23	\$492.91	\$14.68	3.07%
SUMMER	250	\$47.63	\$51.00	\$3.37	7.08%
	300	\$54.64	\$58.38	\$3.74	6.85%
	400	\$68.66	\$73.13	\$4.48	6.52%
	500	\$82.67	\$87.88	\$5.21	6.30%
	600	\$96.69	\$102.64	\$5.95	6.15%
	675	\$107.21	\$113.70	\$6.50	6.06%
	750	\$117.72	\$124.77	\$7.05	5.99%
	1000	\$152.77	\$161.66	\$8.89	5.82%
	1500	\$222.86	\$235.43	\$12.56	5.64%
	2000	\$292.96	\$309.20	\$16.24	5.54%
	3000	\$433.15	\$456.74	\$23.59	5.45%
4000	\$573.34	\$604.28	\$30.94	5.40%	
5000	\$713.52	\$751.82	\$38.30	5.37%	
AVERAGE MONTHLY	250	\$39.78	\$42.37	\$2.59	6.50%
	300	\$45.22	\$48.02	\$2.80	6.18%
	400	\$56.11	\$59.32	\$3.22	5.73%
	500	\$66.99	\$70.62	\$3.64	5.43%
	600	\$77.87	\$81.93	\$4.06	5.21%
	675	\$86.03	\$90.40	\$4.37	5.08%
	750	\$94.19	\$98.88	\$4.69	4.98%
	1000	\$121.40	\$127.13	\$5.74	4.73%
	1500	\$175.80	\$183.64	\$7.84	4.46%
	2000	\$230.21	\$240.15	\$9.94	4.32%
	3000	\$339.03	\$353.17	\$14.14	4.17%
4000	\$447.85	\$466.19	\$18.35	4.10%	
5000	\$556.66	\$579.21	\$22.55	4.05%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - A02

35% On-Peak
 65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$40.11	\$43.21	\$3.10	7.73%
	300	\$46.02	\$49.43	\$3.41	7.42%
	400	\$57.83	\$61.87	\$4.04	6.98%
	500	\$69.65	\$74.31	\$4.66	6.70%
	600	\$81.46	\$86.75	\$5.29	6.50%
	675	\$90.32	\$96.08	\$5.76	6.38%
	750	\$99.18	\$105.41	\$6.23	6.28%
	1000	\$128.71	\$136.51	\$7.80	6.06%
	1500	\$187.78	\$198.71	\$10.93	5.82%
	2000	\$246.85	\$260.90	\$14.06	5.69%
	3000	\$364.98	\$385.30	\$20.32	5.57%
	4000	\$483.11	\$509.69	\$26.58	5.50%
	5000	\$601.25	\$634.09	\$32.84	5.46%
SUMMER	250	\$44.59	\$47.90	\$3.32	7.44%
	300	\$51.39	\$55.06	\$3.68	7.15%
	400	\$64.99	\$69.38	\$4.39	6.75%
	500	\$78.59	\$83.69	\$5.10	6.49%
	600	\$92.19	\$98.01	\$5.82	6.31%
	675	\$102.40	\$108.75	\$6.35	6.20%
	750	\$112.60	\$119.49	\$6.89	6.12%
	1000	\$146.60	\$155.28	\$8.67	5.92%
	1500	\$214.61	\$226.86	\$12.24	5.70%
	2000	\$282.63	\$298.44	\$15.81	5.59%
	3000	\$418.65	\$441.60	\$22.95	5.48%
	4000	\$554.67	\$584.76	\$30.08	5.42%
	5000	\$690.70	\$727.92	\$37.22	5.39%
AVERAGE MONTHLY	250	\$41.60	\$44.78	\$3.17	7.63%
	300	\$47.81	\$51.31	\$3.50	7.32%
	400	\$60.22	\$64.37	\$4.16	6.90%
	500	\$72.63	\$77.44	\$4.81	6.62%
	600	\$85.04	\$90.50	\$5.47	6.43%
	675	\$94.35	\$100.30	\$5.96	6.31%
	750	\$103.65	\$110.10	\$6.45	6.22%
	1000	\$134.68	\$142.76	\$8.09	6.01%
	1500	\$196.73	\$208.09	\$11.36	5.78%
	2000	\$258.77	\$273.41	\$14.64	5.66%
	3000	\$382.87	\$404.06	\$21.19	5.54%
	4000	\$506.97	\$534.71	\$27.75	5.47%
	5000	\$631.06	\$665.36	\$34.30	5.44%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - A02

35% On-Peak

65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$35.79	\$37.98	\$2.19	6.11%
	300	\$40.43	\$42.75	\$2.32	5.73%
	400	\$49.72	\$52.30	\$2.58	5.19%
	500	\$59.00	\$61.85	\$2.84	4.82%
	600	\$68.29	\$71.39	\$3.10	4.54%
	675	\$75.25	\$78.55	\$3.30	4.38%
	750	\$82.22	\$85.71	\$3.49	4.25%
	1000	\$105.43	\$109.58	\$4.15	3.93%
	1500	\$151.85	\$157.31	\$5.46	3.59%
	2000	\$198.28	\$205.04	\$6.76	3.41%
	3000	\$291.13	\$300.50	\$9.38	3.22%
	4000	\$383.98	\$395.97	\$11.99	3.12%
	5000	\$476.83	\$491.43	\$14.60	3.06%
SUMMER	250	\$46.59	\$49.90	\$3.32	7.12%
	300	\$53.39	\$57.06	\$3.68	6.89%
	400	\$66.99	\$71.38	\$4.39	6.55%
	500	\$80.59	\$85.69	\$5.10	6.33%
	600	\$94.19	\$100.01	\$5.82	6.18%
	675	\$104.40	\$110.75	\$6.35	6.08%
	750	\$114.60	\$121.49	\$6.89	6.01%
	1000	\$148.60	\$157.28	\$8.67	5.84%
	1500	\$216.61	\$228.86	\$12.24	5.65%
	2000	\$284.63	\$300.44	\$15.81	5.55%
	3000	\$420.65	\$443.60	\$22.95	5.46%
	4000	\$556.67	\$586.76	\$30.08	5.40%
	5000	\$692.70	\$729.92	\$37.22	5.37%
AVERAGE MONTHLY	250	\$39.39	\$41.96	\$2.56	6.51%
	300	\$44.75	\$47.52	\$2.77	6.19%
	400	\$55.48	\$58.66	\$3.18	5.74%
	500	\$66.20	\$69.80	\$3.60	5.43%
	600	\$76.92	\$80.93	\$4.01	5.21%
	675	\$84.97	\$89.28	\$4.32	5.08%
	750	\$93.01	\$97.64	\$4.63	4.97%
	1000	\$119.82	\$125.48	\$5.66	4.72%
	1500	\$173.44	\$181.16	\$7.72	4.45%
	2000	\$227.06	\$236.84	\$9.78	4.31%
	3000	\$334.30	\$348.20	\$13.90	4.16%
	4000	\$441.54	\$459.56	\$18.02	4.08%
	5000	\$548.78	\$570.93	\$22.14	4.03%

Comparison Of Bills At Present & Proposed Rates

SMALL GENERAL SERVICE

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$38.57	\$42.01	\$3.44	8.92%
	300	\$44.13	\$47.96	\$3.83	8.69%
	400	\$55.24	\$59.87	\$4.62	8.37%
	500	\$66.36	\$71.77	\$5.41	8.16%
	600	\$77.47	\$83.68	\$6.20	8.01%
	750	\$94.15	\$101.54	\$7.39	7.85%
	1000	\$121.94	\$131.30	\$9.36	7.68%
	1500	\$177.52	\$190.83	\$13.31	7.50%
	2000	\$233.10	\$250.36	\$17.26	7.41%
	3000	\$344.25	\$369.42	\$25.16	7.31%
	4000	\$455.41	\$488.47	\$33.06	7.26%
5000	\$566.57	\$607.53	\$40.96	7.23%	
SUMMER	250	\$43.31	\$47.01	\$3.69	8.53%
	300	\$49.82	\$53.96	\$4.14	8.31%
	400	\$62.83	\$67.86	\$5.03	8.01%
	500	\$75.84	\$81.77	\$5.92	7.81%
	600	\$88.86	\$95.67	\$6.82	7.67%
	750	\$108.37	\$116.53	\$8.15	7.52%
	1000	\$140.91	\$151.29	\$10.38	7.37%
	1500	\$205.97	\$220.81	\$14.84	7.21%
	2000	\$271.03	\$290.34	\$19.30	7.12%
	3000	\$401.16	\$429.38	\$28.22	7.04%
	4000	\$531.28	\$568.43	\$37.15	6.99%
5000	\$661.41	\$707.48	\$46.07	6.96%	
AVERAGE MONTHLY	250	\$40.15	\$43.67	\$3.52	8.78%
	300	\$46.02	\$49.96	\$3.94	8.55%
	400	\$57.77	\$62.53	\$4.76	8.24%
	500	\$69.52	\$75.10	\$5.58	8.03%
	600	\$81.27	\$87.68	\$6.41	7.88%
	750	\$98.89	\$106.53	\$7.64	7.73%
	1000	\$128.26	\$137.96	\$9.70	7.57%
	1500	\$187.00	\$200.82	\$13.82	7.39%
	2000	\$245.74	\$263.68	\$17.94	7.30%
	3000	\$363.22	\$389.41	\$26.18	7.21%
	4000	\$480.70	\$515.13	\$34.42	7.16%
5000	\$598.18	\$640.85	\$42.66	7.13%	

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Secondary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$416.03	\$437.46	\$21.43	5.15%
15	6,000	400	\$609.57	\$643.07	\$33.49	5.49%
15	9,000	600	\$757.58	\$798.88	\$41.30	5.45%
25	5,000	200	\$674.72	\$709.93	\$35.21	5.22%
25	10,000	400	\$997.30	\$1,052.61	\$55.31	5.55%
25	15,000	600	\$1,243.98	\$1,312.30	\$68.32	5.49%
50	10,000	200	\$1,321.47	\$1,391.11	\$69.65	5.27%
50	20,000	400	\$1,966.63	\$2,076.48	\$109.86	5.59%
50	30,000	600	\$2,459.98	\$2,595.85	\$135.87	5.52%
75	15,000	200	\$1,968.21	\$2,072.30	\$104.08	5.29%
75	30,000	400	\$2,935.95	\$3,100.35	\$164.40	5.60%
75	45,000	600	\$3,675.98	\$3,879.40	\$203.42	5.53%
100	20,000	200	\$2,614.96	\$2,753.48	\$138.52	5.30%
100	40,000	400	\$3,905.27	\$4,124.22	\$218.95	5.61%
100	60,000	600	\$4,891.99	\$5,162.96	\$270.97	5.54%
200	40,000	200	\$5,201.94	\$5,478.22	\$276.28	5.31%
200	80,000	400	\$7,782.57	\$8,219.69	\$437.13	5.62%
200	120,000	600	\$9,755.99	\$10,297.16	\$541.17	5.55%
300	60,000	200	\$7,788.92	\$8,202.96	\$414.04	5.32%
300	120,000	400	\$11,659.86	\$12,315.16	\$655.31	5.62%
300	180,000	600	\$14,620.00	\$15,431.37	\$811.38	5.55%
400	80,000	200	\$10,375.90	\$10,927.69	\$551.80	5.32%
400	160,000	400	\$15,537.15	\$16,410.64	\$873.49	5.62%
400	240,000	600	\$19,484.00	\$20,565.58	\$1,081.58	5.55%
500	100,000	200	\$12,962.87	\$13,652.43	\$689.55	5.32%
500	200,000	400	\$19,414.44	\$20,506.11	\$1,091.67	5.62%
500	300,000	600	\$24,348.01	\$25,699.79	\$1,351.78	5.55%
750	150,000	200	\$19,430.32	\$20,464.27	\$1,033.95	5.32%
750	300,000	400	\$29,107.67	\$30,744.79	\$1,637.12	5.62%
750	450,000	600	\$36,508.03	\$38,535.31	\$2,027.29	5.55%
1,000	200,000	200	\$25,897.77	\$27,276.11	\$1,378.34	5.32%
1,000	400,000	400	\$38,800.91	\$40,983.47	\$2,182.57	5.63%
1,000	600,000	600	\$48,668.04	\$51,370.84	\$2,702.80	5.55%

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Primary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$400.88	\$425.01	\$24.13	6.02%
15	6,000	400	\$591.28	\$627.17	\$35.89	6.07%
15	9,000	600	\$736.14	\$779.54	\$43.40	5.90%
25	5,000	200	\$649.48	\$689.19	\$39.71	6.11%
25	10,000	400	\$966.81	\$1,026.12	\$59.31	6.13%
25	15,000	600	\$1,208.25	\$1,280.06	\$71.82	5.94%
50	10,000	200	\$1,270.98	\$1,349.62	\$78.65	6.19%
50	20,000	400	\$1,905.65	\$2,023.50	\$117.86	6.18%
50	30,000	600	\$2,388.51	\$2,531.38	\$142.87	5.98%
75	15,000	200	\$1,892.48	\$2,010.06	\$117.58	6.21%
75	30,000	400	\$2,844.48	\$3,020.88	\$176.40	6.20%
75	45,000	600	\$3,568.78	\$3,782.70	\$213.92	5.99%
100	20,000	200	\$2,513.98	\$2,670.50	\$156.52	6.23%
100	40,000	400	\$3,783.31	\$4,018.26	\$234.95	6.21%
100	60,000	600	\$4,749.05	\$5,034.02	\$284.97	6.00%
200	40,000	200	\$4,999.98	\$5,312.26	\$312.28	6.25%
200	80,000	400	\$7,538.65	\$8,007.77	\$469.13	6.22%
200	120,000	600	\$9,470.11	\$10,039.28	\$569.17	6.01%
300	60,000	200	\$7,485.98	\$7,954.02	\$468.04	6.25%
300	120,000	400	\$11,293.98	\$11,997.28	\$703.31	6.23%
300	180,000	600	\$14,191.18	\$15,044.55	\$853.38	6.01%
400	80,000	200	\$9,971.98	\$10,595.77	\$623.80	6.26%
400	160,000	400	\$15,049.31	\$15,986.80	\$937.49	6.23%
400	240,000	600	\$18,912.24	\$20,049.82	\$1,137.58	6.02%
500	100,000	200	\$12,457.97	\$13,237.53	\$779.55	6.26%
500	200,000	400	\$18,804.64	\$19,976.31	\$1,171.67	6.23%
500	300,000	600	\$23,633.31	\$25,055.09	\$1,421.78	6.02%
750	150,000	200	\$18,672.97	\$19,841.92	\$1,168.95	6.26%
750	300,000	400	\$28,192.97	\$29,950.09	\$1,757.12	6.23%
750	450,000	600	\$35,435.98	\$37,568.26	\$2,132.29	6.02%
1,000	200,000	200	\$24,887.97	\$26,446.31	\$1,558.34	6.26%
1,000	400,000	400	\$37,581.31	\$39,923.87	\$2,342.57	6.23%
1,000	600,000	600	\$47,238.64	\$50,081.44	\$2,842.80	6.02%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Secondary Voltage)

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$417.46	\$438.84	\$21.37	5.12%
15	6,000	400	\$608.45	\$641.83	\$33.38	5.49%
15	9,000	600	\$753.89	\$795.02	\$41.13	5.46%
25	5,000	200	\$674.45	\$709.56	\$35.11	5.21%
25	10,000	400	\$992.76	\$1,047.88	\$55.12	5.55%
25	15,000	600	\$1,235.17	\$1,303.20	\$68.03	5.51%
50	10,000	200	\$1,316.93	\$1,386.38	\$69.46	5.27%
50	20,000	400	\$1,953.54	\$2,063.02	\$109.48	5.60%
50	30,000	600	\$2,438.35	\$2,573.66	\$135.30	5.55%
75	15,000	200	\$1,959.40	\$2,063.20	\$103.80	5.30%
75	30,000	400	\$2,914.32	\$3,078.16	\$163.83	5.62%
75	45,000	600	\$3,641.54	\$3,844.11	\$202.57	5.56%
100	20,000	200	\$2,601.87	\$2,740.02	\$138.15	5.31%
100	40,000	400	\$3,875.10	\$4,093.29	\$218.19	5.63%
100	60,000	600	\$4,844.73	\$5,114.56	\$269.84	5.57%
200	40,000	200	\$5,171.77	\$5,447.29	\$275.53	5.33%
200	80,000	400	\$7,718.22	\$8,153.84	\$435.61	5.64%
200	120,000	600	\$9,657.48	\$10,196.38	\$538.90	5.58%
300	60,000	200	\$7,741.66	\$8,154.56	\$412.90	5.33%
300	120,000	400	\$11,561.34	\$12,214.38	\$653.04	5.65%
300	180,000	600	\$14,470.23	\$15,278.20	\$807.97	5.58%
500	100,000	200	\$12,881.45	\$13,569.11	\$687.66	5.34%
500	200,000	400	\$19,247.58	\$20,335.47	\$1,087.89	5.65%
500	300,000	600	\$24,095.72	\$25,441.84	\$1,346.11	5.59%
1,000	200,000	200	\$25,730.91	\$27,105.47	\$1,374.56	5.34%
1,000	400,000	400	\$38,463.19	\$40,638.20	\$2,175.01	5.65%
1,000	600,000	600	\$48,159.47	\$50,850.92	\$2,691.46	5.59%
3,000	600,000	200	\$77,128.78	\$81,250.92	\$4,122.15	5.34%
3,000	1,200,000	400	\$115,325.61	\$121,849.10	\$6,523.49	5.66%
3,000	1,800,000	600	\$144,414.44	\$152,487.28	\$8,072.84	5.59%
5,000	1,000,000	200	\$128,526.64	\$135,396.37	\$6,869.74	5.34%
5,000	2,000,000	400	\$192,188.03	\$203,060.00	\$10,871.98	5.66%
5,000	3,000,000	600	\$240,669.41	\$254,123.63	\$13,454.22	5.59%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Primary Voltage)

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$402.32	\$426.39	\$24.07	5.98%
15	6,000	400	\$590.15	\$625.93	\$35.78	6.06%
15	9,000	600	\$732.45	\$775.68	\$43.23	5.90%
25	5,000	200	\$649.21	\$688.82	\$39.61	6.10%
25	10,000	400	\$962.27	\$1,021.39	\$59.12	6.14%
25	15,000	600	\$1,199.43	\$1,270.97	\$71.53	5.96%
50	10,000	200	\$1,266.44	\$1,344.89	\$78.46	6.20%
50	20,000	400	\$1,892.56	\$2,010.04	\$117.48	6.21%
50	30,000	600	\$2,366.88	\$2,509.19	\$142.30	6.01%
75	15,000	200	\$1,883.66	\$2,000.97	\$117.30	6.23%
75	30,000	400	\$2,822.85	\$2,998.69	\$175.83	6.23%
75	45,000	600	\$3,534.34	\$3,747.40	\$213.07	6.03%
100	20,000	200	\$2,500.89	\$2,657.04	\$156.15	6.24%
100	40,000	400	\$3,753.14	\$3,987.33	\$234.19	6.24%
100	60,000	600	\$4,701.79	\$4,985.62	\$283.84	6.04%
200	40,000	200	\$4,969.81	\$5,281.33	\$311.53	6.27%
200	80,000	400	\$7,474.30	\$7,941.92	\$467.61	6.26%
200	120,000	600	\$9,371.60	\$9,938.50	\$566.90	6.05%
300	60,000	200	\$7,438.72	\$7,905.62	\$466.90	6.28%
300	120,000	400	\$11,195.46	\$11,896.50	\$701.04	6.26%
300	180,000	600	\$14,041.41	\$14,891.38	\$849.97	6.05%
500	100,000	200	\$12,376.55	\$13,154.21	\$777.66	6.28%
500	200,000	400	\$18,637.78	\$19,805.67	\$1,167.89	6.27%
500	300,000	600	\$23,381.02	\$24,797.14	\$1,416.11	6.06%
1,000	200,000	200	\$24,721.11	\$26,275.67	\$1,554.56	6.29%
1,000	400,000	400	\$37,243.59	\$39,578.60	\$2,335.01	6.27%
1,000	600,000	600	\$46,730.07	\$49,561.52	\$2,831.46	6.06%
3,000	600,000	200	\$74,099.38	\$78,761.52	\$4,662.15	6.29%
3,000	1,200,000	400	\$111,666.81	\$118,670.30	\$7,003.49	6.27%
3,000	1,800,000	600	\$140,126.24	\$148,619.08	\$8,492.84	6.06%
5,000	1,000,000	200	\$123,477.64	\$131,247.37	\$7,769.74	6.29%
5,000	2,000,000	400	\$186,090.03	\$197,762.00	\$11,671.98	6.27%
5,000	3,000,000	600	\$233,522.41	\$247,676.63	\$14,154.22	6.06%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Transmission Transformed Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$386.20	\$404.87	\$18.66	4.83%
15	6,000	400	\$569.18	\$599.38	\$30.21	5.31%
15	9,000	600	\$706.61	\$744.10	\$37.49	5.31%
25	5,000	200	\$622.35	\$652.94	\$30.59	4.92%
25	10,000	400	\$927.31	\$977.14	\$49.83	5.37%
25	15,000	600	\$1,156.37	\$1,218.34	\$61.97	5.36%
50	10,000	200	\$1,212.73	\$1,273.14	\$60.42	4.98%
50	20,000	400	\$1,822.64	\$1,921.54	\$98.90	5.43%
50	30,000	600	\$2,280.75	\$2,403.94	\$123.18	5.40%
75	15,000	200	\$1,803.10	\$1,893.34	\$90.24	5.00%
75	30,000	400	\$2,717.97	\$2,865.94	\$147.96	5.44%
75	45,000	600	\$3,405.14	\$3,589.53	\$184.39	5.41%
100	20,000	200	\$2,393.47	\$2,513.54	\$120.07	5.02%
100	40,000	400	\$3,613.30	\$3,810.33	\$197.03	5.45%
100	60,000	600	\$4,529.53	\$4,775.12	\$245.60	5.42%
200	40,000	200	\$4,754.97	\$4,994.33	\$239.37	5.03%
200	80,000	400	\$7,194.62	\$7,587.92	\$393.29	5.47%
200	120,000	600	\$9,027.08	\$9,517.50	\$490.42	5.43%
300	60,000	200	\$7,116.46	\$7,475.12	\$358.66	5.04%
300	120,000	400	\$10,775.94	\$11,365.50	\$589.56	5.47%
300	180,000	600	\$13,524.63	\$14,259.88	\$735.25	5.44%
500	100,000	200	\$11,839.45	\$12,436.71	\$597.26	5.04%
500	200,000	400	\$17,938.58	\$18,920.67	\$982.09	5.47%
500	300,000	600	\$22,519.72	\$23,744.64	\$1,224.91	5.44%
1,000	200,000	200	\$23,646.91	\$24,840.67	\$1,193.76	5.05%
1,000	400,000	400	\$35,845.19	\$37,808.60	\$1,963.41	5.48%
1,000	600,000	600	\$45,007.47	\$47,456.52	\$2,449.06	5.44%
3,000	600,000	200	\$70,876.78	\$74,456.52	\$3,579.75	5.05%
3,000	1,200,000	400	\$107,471.61	\$113,360.30	\$5,888.69	5.48%
3,000	1,800,000	600	\$134,958.44	\$142,304.08	\$7,345.64	5.44%
5,000	1,000,000	200	\$118,106.64	\$124,072.37	\$5,965.74	5.05%
5,000	2,000,000	400	\$179,098.03	\$188,912.00	\$9,813.98	5.48%
5,000	3,000,000	600	\$224,909.41	\$237,151.63	\$12,242.22	5.44%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Transmission Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$373.90	\$392.56	\$18.66	4.99%
15	6,000	400	\$556.58	\$586.78	\$30.20	5.43%
15	9,000	600	\$693.71	\$731.19	\$37.48	5.40%
25	5,000	200	\$601.85	\$632.44	\$30.59	5.08%
25	10,000	400	\$906.31	\$956.13	\$49.82	5.50%
25	15,000	600	\$1,134.87	\$1,196.83	\$61.96	5.46%
50	10,000	200	\$1,171.73	\$1,232.13	\$60.41	5.16%
50	20,000	400	\$1,780.64	\$1,879.52	\$98.88	5.55%
50	30,000	600	\$2,237.75	\$2,360.91	\$123.15	5.50%
75	15,000	200	\$1,741.60	\$1,831.83	\$90.23	5.18%
75	30,000	400	\$2,654.97	\$2,802.91	\$147.93	5.57%
75	45,000	600	\$3,340.64	\$3,524.98	\$184.34	5.52%
100	20,000	200	\$2,311.47	\$2,431.52	\$120.05	5.19%
100	40,000	400	\$3,529.30	\$3,726.29	\$196.99	5.58%
100	60,000	600	\$4,443.53	\$4,689.06	\$245.54	5.53%
200	40,000	200	\$4,590.97	\$4,830.29	\$239.33	5.21%
200	80,000	400	\$7,026.62	\$7,419.84	\$393.21	5.60%
200	120,000	600	\$8,855.08	\$9,345.38	\$490.30	5.54%
300	60,000	200	\$6,870.46	\$7,229.06	\$358.60	5.22%
300	120,000	400	\$10,523.94	\$11,113.38	\$589.44	5.60%
300	180,000	600	\$13,266.63	\$14,001.70	\$735.07	5.54%
500	100,000	200	\$11,429.45	\$12,026.61	\$597.16	5.22%
500	200,000	400	\$17,518.58	\$18,500.47	\$981.89	5.60%
500	300,000	600	\$22,089.72	\$23,314.34	\$1,224.61	5.54%
1,000	200,000	200	\$22,826.91	\$24,020.47	\$1,193.56	5.23%
1,000	400,000	400	\$35,005.19	\$36,968.20	\$1,963.01	5.61%
1,000	600,000	600	\$44,147.47	\$46,595.92	\$2,448.46	5.55%
3,000	600,000	200	\$68,416.78	\$71,995.92	\$3,579.15	5.23%
3,000	1,200,000	400	\$104,951.61	\$110,839.10	\$5,887.49	5.61%
3,000	1,800,000	600	\$132,378.44	\$139,722.28	\$7,343.84	5.55%
5,000	1,000,000	200	\$114,006.64	\$119,971.37	\$5,964.74	5.23%
5,000	2,000,000	400	\$174,898.03	\$184,710.00	\$9,811.98	5.61%
5,000	3,000,000	600	\$220,609.41	\$232,848.63	\$12,239.22	5.55%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Overhead) - A01

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$38.84	\$43.88	\$5.04	12.98%
	300	\$44.89	\$50.64	\$5.74	12.79%
	400	\$57.00	\$64.15	\$7.15	12.54%
	500	\$69.10	\$77.66	\$8.55	12.38%
	600	\$81.21	\$91.16	\$9.96	12.26%
	675	\$90.28	\$101.30	\$11.01	12.20%
	750	\$99.36	\$111.43	\$12.07	12.14%
	1000	\$129.62	\$145.20	\$15.58	12.02%
	1500	\$190.15	\$212.75	\$22.60	11.89%
	2000	\$250.67	\$280.29	\$29.62	11.82%
	3000	\$371.71	\$415.38	\$43.67	11.75%
	4000	\$492.76	\$550.47	\$57.72	11.71%
	5000	\$613.80	\$685.57	\$71.77	11.69%
SUMMER	250	\$43.57	\$48.99	\$5.42	12.44%
	300	\$50.57	\$56.76	\$6.20	12.26%
	400	\$64.56	\$72.31	\$7.75	12.01%
	500	\$78.56	\$87.87	\$9.31	11.85%
	600	\$92.55	\$103.42	\$10.87	11.74%
	675	\$103.05	\$115.08	\$12.03	11.68%
	750	\$113.54	\$126.74	\$13.20	11.63%
	1000	\$148.53	\$165.62	\$17.09	11.51%
	1500	\$218.51	\$243.38	\$24.87	11.38%
	2000	\$288.48	\$321.14	\$32.65	11.32%
	3000	\$428.44	\$476.65	\$48.21	11.25%
	4000	\$568.39	\$632.16	\$63.77	11.22%
	5000	\$708.34	\$787.68	\$79.33	11.20%
AVERAGE MONTHLY	250	\$40.42	\$45.58	\$5.17	12.79%
	300	\$46.78	\$52.68	\$5.90	12.60%
	400	\$59.52	\$66.87	\$7.35	12.35%
	500	\$72.25	\$81.06	\$8.81	12.19%
	600	\$84.99	\$95.25	\$10.26	12.07%
	675	\$94.54	\$105.89	\$11.35	12.01%
	750	\$104.09	\$116.53	\$12.44	11.95%
	1000	\$135.93	\$152.01	\$16.08	11.83%
	1500	\$199.60	\$222.96	\$23.36	11.70%
	2000	\$263.27	\$293.91	\$30.63	11.64%
	3000	\$390.62	\$435.81	\$45.19	11.57%
	4000	\$517.97	\$577.70	\$59.74	11.53%
	5000	\$645.31	\$719.60	\$74.29	11.51%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - A01

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$33.80	\$37.47	\$3.67	10.85%
	300	\$38.45	\$42.55	\$4.10	10.66%
	400	\$47.74	\$52.69	\$4.95	10.37%
	500	\$57.03	\$62.84	\$5.81	10.19%
	600	\$66.32	\$72.98	\$6.66	10.05%
	675	\$73.28	\$80.59	\$7.31	9.97%
	750	\$80.25	\$88.20	\$7.95	9.90%
	1000	\$103.47	\$113.56	\$10.09	9.75%
	1500	\$149.92	\$164.29	\$14.37	9.58%
	2000	\$196.37	\$215.01	\$18.64	9.49%
	3000	\$289.26	\$316.46	\$27.20	9.40%
	4000	\$382.16	\$417.91	\$35.76	9.36%
	5000	\$475.05	\$519.37	\$44.32	9.33%
SUMMER	250	\$45.57	\$50.99	\$5.42	11.89%
	300	\$52.57	\$58.76	\$6.20	11.79%
	400	\$66.56	\$74.31	\$7.75	11.65%
	500	\$80.56	\$89.87	\$9.31	11.56%
	600	\$94.55	\$105.42	\$10.87	11.49%
	675	\$105.05	\$117.08	\$12.03	11.46%
	750	\$115.54	\$128.74	\$13.20	11.42%
	1000	\$150.53	\$167.62	\$17.09	11.35%
	1500	\$220.51	\$245.38	\$24.87	11.28%
	2000	\$290.48	\$323.14	\$32.65	11.24%
	3000	\$430.44	\$478.65	\$48.21	11.20%
	4000	\$570.39	\$634.16	\$63.77	11.18%
	5000	\$710.34	\$789.68	\$79.33	11.17%
AVERAGE MONTHLY	250	\$37.72	\$41.98	\$4.25	11.27%
	300	\$43.15	\$47.95	\$4.80	11.12%
	400	\$54.01	\$59.90	\$5.89	10.90%
	500	\$64.87	\$71.85	\$6.98	10.75%
	600	\$75.73	\$83.79	\$8.06	10.65%
	675	\$83.87	\$92.75	\$8.88	10.59%
	750	\$92.01	\$101.71	\$9.70	10.54%
	1000	\$119.16	\$131.58	\$12.42	10.42%
	1500	\$173.45	\$191.32	\$17.87	10.30%
	2000	\$227.74	\$251.05	\$23.31	10.24%
	3000	\$336.32	\$370.53	\$34.21	10.17%
	4000	\$444.90	\$490.00	\$45.10	10.14%
	5000	\$553.48	\$609.47	\$55.99	10.12%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Underground) - A03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$40.84	\$45.88	\$5.04	12.34%
	300	\$46.89	\$52.64	\$5.74	12.25%
	400	\$59.00	\$66.15	\$7.15	12.12%
	500	\$71.10	\$79.66	\$8.55	12.03%
	600	\$83.21	\$93.16	\$9.96	11.97%
	675	\$92.28	\$103.30	\$11.01	11.93%
	750	\$101.36	\$113.43	\$12.07	11.90%
	1000	\$131.62	\$147.20	\$15.58	11.83%
	1500	\$192.15	\$214.75	\$22.60	11.76%
	2000	\$252.67	\$282.29	\$29.62	11.72%
	3000	\$373.71	\$417.38	\$43.67	11.69%
	4000	\$494.76	\$552.47	\$57.72	11.67%
5000	\$615.80	\$687.57	\$71.77	11.65%	
SUMMER	250	\$45.57	\$50.99	\$5.42	11.89%
	300	\$52.57	\$58.76	\$6.20	11.79%
	400	\$66.56	\$74.31	\$7.75	11.65%
	500	\$80.56	\$89.87	\$9.31	11.56%
	600	\$94.55	\$105.42	\$10.87	11.49%
	675	\$105.05	\$117.08	\$12.03	11.46%
	750	\$115.54	\$128.74	\$13.20	11.42%
	1000	\$150.53	\$167.62	\$17.09	11.35%
	1500	\$220.51	\$245.38	\$24.87	11.28%
	2000	\$290.48	\$323.14	\$32.65	11.24%
	3000	\$430.44	\$478.65	\$48.21	11.20%
	4000	\$570.39	\$634.16	\$63.77	11.18%
5000	\$710.34	\$789.68	\$79.33	11.17%	
AVERAGE MONTHLY	250	\$42.42	\$47.58	\$5.17	12.18%
	300	\$48.78	\$54.68	\$5.90	12.08%
	400	\$61.52	\$68.87	\$7.35	11.95%
	500	\$74.25	\$83.06	\$8.81	11.86%
	600	\$86.99	\$97.25	\$10.26	11.80%
	675	\$96.54	\$107.89	\$11.35	11.76%
	750	\$106.09	\$118.53	\$12.44	11.73%
	1000	\$137.93	\$154.01	\$16.08	11.66%
	1500	\$201.60	\$224.96	\$23.36	11.59%
	2000	\$265.27	\$295.91	\$30.63	11.55%
	3000	\$392.62	\$437.81	\$45.19	11.51%
	4000	\$519.97	\$579.70	\$59.74	11.49%
5000	\$647.31	\$721.60	\$74.29	11.48%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - A03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$35.80	\$39.47	\$3.67	10.25%
	300	\$40.45	\$44.55	\$4.10	10.13%
	400	\$49.74	\$54.69	\$4.95	9.96%
	500	\$59.03	\$64.84	\$5.81	9.84%
	600	\$68.32	\$74.98	\$6.66	9.75%
	675	\$75.28	\$82.59	\$7.31	9.70%
	750	\$82.25	\$90.20	\$7.95	9.66%
	1000	\$105.47	\$115.56	\$10.09	9.56%
	1500	\$151.92	\$166.29	\$14.37	9.46%
	2000	\$198.37	\$217.01	\$18.64	9.40%
	3000	\$291.26	\$318.46	\$27.20	9.34%
	4000	\$384.16	\$419.91	\$35.76	9.31%
	5000	\$477.05	\$521.37	\$44.32	9.29%
SUMMER	250	\$47.57	\$52.99	\$5.42	11.39%
	300	\$54.57	\$60.76	\$6.20	11.36%
	400	\$68.56	\$76.31	\$7.75	11.31%
	500	\$82.56	\$91.87	\$9.31	11.28%
	600	\$96.55	\$107.42	\$10.87	11.25%
	675	\$107.05	\$119.08	\$12.03	11.24%
	750	\$117.54	\$130.74	\$13.20	11.23%
	1000	\$152.53	\$169.62	\$17.09	11.20%
	1500	\$222.51	\$247.38	\$24.87	11.18%
	2000	\$292.48	\$325.14	\$32.65	11.16%
	3000	\$432.44	\$480.65	\$48.21	11.15%
	4000	\$572.39	\$636.16	\$63.77	11.14%
	5000	\$712.34	\$791.68	\$79.33	11.14%
AVERAGE MONTHLY	250	\$39.72	\$43.98	\$4.25	10.71%
	300	\$45.15	\$49.95	\$4.80	10.62%
	400	\$56.01	\$61.90	\$5.89	10.51%
	500	\$66.87	\$73.85	\$6.98	10.43%
	600	\$77.73	\$85.79	\$8.06	10.38%
	675	\$85.87	\$94.75	\$8.88	10.34%
	750	\$94.01	\$103.71	\$9.70	10.32%
	1000	\$121.16	\$133.58	\$12.42	10.25%
	1500	\$175.45	\$193.32	\$17.87	10.18%
	2000	\$229.74	\$253.05	\$23.31	10.15%
	3000	\$338.32	\$372.53	\$34.21	10.11%
	4000	\$446.90	\$492.00	\$45.10	10.09%
	5000	\$555.48	\$611.47	\$55.99	10.08%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - A02

35% On-Peak
 65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$40.05	\$44.99	\$4.93	12.31%
	300	\$45.95	\$51.56	\$5.61	12.21%
	400	\$57.74	\$64.71	\$6.97	12.08%
	500	\$69.53	\$77.86	\$8.33	11.99%
	600	\$81.32	\$91.01	\$9.69	11.92%
	675	\$90.16	\$100.88	\$10.72	11.89%
	750	\$99.00	\$110.74	\$11.74	11.85%
	1000	\$128.48	\$143.62	\$15.14	11.78%
	1500	\$187.43	\$209.37	\$21.94	11.71%
	2000	\$246.37	\$275.12	\$28.75	11.67%
	3000	\$364.27	\$406.63	\$42.36	11.63%
	4000	\$482.17	\$538.13	\$55.96	11.61%
	5000	\$600.06	\$669.64	\$69.57	11.59%
SUMMER	250	\$44.53	\$49.82	\$5.29	11.88%
	300	\$51.32	\$57.36	\$6.04	11.78%
	400	\$64.89	\$72.44	\$7.55	11.63%
	500	\$78.47	\$87.53	\$9.05	11.54%
	600	\$92.05	\$102.61	\$10.56	11.47%
	675	\$102.24	\$113.92	\$11.69	11.43%
	750	\$112.42	\$125.23	\$12.81	11.40%
	1000	\$146.37	\$162.94	\$16.58	11.32%
	1500	\$214.26	\$238.36	\$24.10	11.25%
	2000	\$282.15	\$313.77	\$31.62	11.21%
	3000	\$417.94	\$464.61	\$46.67	11.17%
	4000	\$553.73	\$615.44	\$61.71	11.14%
	5000	\$689.51	\$766.27	\$76.76	11.13%
AVERAGE MONTHLY	250	\$41.55	\$46.60	\$5.05	12.16%
	300	\$47.74	\$53.49	\$5.76	12.06%
	400	\$60.12	\$67.29	\$7.16	11.92%
	500	\$72.51	\$81.08	\$8.57	11.82%
	600	\$84.90	\$94.88	\$9.98	11.76%
	675	\$94.19	\$105.22	\$11.04	11.72%
	750	\$103.48	\$115.57	\$12.10	11.69%
	1000	\$134.44	\$150.06	\$15.62	11.62%
	1500	\$196.37	\$219.03	\$22.66	11.54%
	2000	\$258.30	\$288.01	\$29.71	11.50%
	3000	\$382.16	\$425.95	\$43.79	11.46%
	4000	\$506.02	\$563.90	\$57.88	11.44%
	5000	\$629.88	\$701.85	\$71.97	11.43%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - A02

35% On-Peak

65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$35.73	\$39.39	\$3.66	10.23%
	300	\$40.36	\$44.45	\$4.08	10.11%
	400	\$49.63	\$54.56	\$4.93	9.94%
	500	\$58.89	\$64.67	\$5.78	9.82%
	600	\$68.15	\$74.78	\$6.63	9.73%
	675	\$75.09	\$82.36	\$7.27	9.68%
	750	\$82.04	\$89.95	\$7.91	9.64%
	1000	\$105.19	\$115.23	\$10.04	9.54%
	1500	\$151.50	\$165.79	\$14.29	9.43%
	2000	\$197.81	\$216.35	\$18.54	9.37%
	3000	\$290.42	\$317.47	\$27.05	9.31%
	4000	\$383.03	\$418.58	\$35.55	9.28%
	5000	\$475.64	\$519.70	\$44.06	9.26%
SUMMER	250	\$46.53	\$51.82	\$5.29	11.37%
	300	\$53.32	\$59.36	\$6.04	11.33%
	400	\$66.89	\$74.44	\$7.55	11.28%
	500	\$80.47	\$89.53	\$9.05	11.25%
	600	\$94.05	\$104.61	\$10.56	11.22%
	675	\$104.24	\$115.92	\$11.69	11.21%
	750	\$114.42	\$127.23	\$12.81	11.20%
	1000	\$148.37	\$164.94	\$16.58	11.17%
	1500	\$216.26	\$240.36	\$24.10	11.14%
	2000	\$284.15	\$315.77	\$31.62	11.13%
	3000	\$419.94	\$466.61	\$46.67	11.11%
	4000	\$555.73	\$617.44	\$61.71	11.10%
	5000	\$691.51	\$768.27	\$76.76	11.10%
AVERAGE MONTHLY	250	\$39.33	\$43.53	\$4.20	10.68%
	300	\$44.68	\$49.42	\$4.74	10.60%
	400	\$55.38	\$61.19	\$5.80	10.48%
	500	\$66.08	\$72.95	\$6.87	10.40%
	600	\$76.78	\$84.72	\$7.94	10.34%
	675	\$84.81	\$93.55	\$8.74	10.31%
	750	\$92.83	\$102.38	\$9.54	10.28%
	1000	\$119.58	\$131.80	\$12.22	10.21%
	1500	\$173.09	\$190.64	\$17.56	10.14%
	2000	\$226.59	\$249.49	\$22.90	10.11%
	3000	\$333.59	\$367.18	\$33.59	10.07%
	4000	\$440.60	\$484.87	\$44.27	10.05%
	5000	\$547.60	\$602.56	\$54.96	10.04%

Comparison Of Bills At Present & Proposed Rates

SMALL GENERAL SERVICE

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$38.51	\$43.56	\$5.05	13.11%
	300	\$44.06	\$49.83	\$5.77	13.09%
	400	\$55.15	\$62.35	\$7.21	13.07%
	500	\$66.24	\$74.88	\$8.64	13.05%
	600	\$77.33	\$87.41	\$10.08	13.03%
	750	\$93.97	\$106.21	\$12.23	13.02%
	1000	\$121.70	\$137.53	\$15.83	13.00%
	1500	\$177.16	\$200.17	\$23.01	12.99%
	2000	\$232.62	\$262.82	\$30.19	12.98%
	3000	\$343.54	\$388.11	\$44.56	12.97%
	4000	\$454.47	\$513.40	\$58.93	12.97%
5000	\$565.39	\$638.69	\$73.30	12.96%	
SUMMER	250	\$43.25	\$48.71	\$5.46	12.62%
	300	\$49.75	\$56.00	\$6.26	12.58%
	400	\$62.74	\$70.59	\$7.86	12.53%
	500	\$75.72	\$85.18	\$9.46	12.49%
	600	\$88.71	\$99.77	\$11.06	12.46%
	750	\$108.20	\$121.65	\$13.46	12.44%
	1000	\$140.67	\$158.13	\$17.46	12.41%
	1500	\$205.61	\$231.07	\$25.46	12.38%
	2000	\$270.56	\$304.02	\$33.46	12.37%
	3000	\$400.45	\$449.90	\$49.46	12.35%
	4000	\$530.34	\$595.79	\$65.46	12.34%
5000	\$660.23	\$741.68	\$81.45	12.34%	
AVERAGE MONTHLY	250	\$40.09	\$45.28	\$5.19	12.94%
	300	\$45.95	\$51.88	\$5.93	12.91%
	400	\$57.68	\$65.10	\$7.42	12.87%
	500	\$69.40	\$78.32	\$8.91	12.84%
	600	\$81.13	\$91.53	\$10.41	12.83%
	750	\$98.71	\$111.36	\$12.64	12.81%
	1000	\$128.02	\$144.39	\$16.37	12.79%
	1500	\$186.65	\$210.47	\$23.83	12.77%
	2000	\$245.27	\$276.55	\$31.28	12.75%
	3000	\$362.51	\$408.71	\$46.19	12.74%
	4000	\$479.76	\$540.86	\$61.11	12.74%
5000	\$597.00	\$673.02	\$76.02	12.73%	

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Secondary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$415.22	\$453.59	\$38.37	9.24%
15	6,000	400	\$608.27	\$667.10	\$58.83	9.67%
15	9,000	600	\$755.77	\$827.35	\$71.59	9.47%
25	5,000	200	\$673.39	\$736.83	\$63.44	9.42%
25	10,000	400	\$995.12	\$1,092.67	\$97.55	9.80%
25	15,000	600	\$1,240.96	\$1,359.77	\$118.81	9.57%
50	10,000	200	\$1,318.79	\$1,444.92	\$126.13	9.56%
50	20,000	400	\$1,962.27	\$2,156.61	\$194.35	9.90%
50	30,000	600	\$2,453.94	\$2,690.80	\$236.86	9.65%
75	15,000	200	\$1,964.20	\$2,153.02	\$188.82	9.61%
75	30,000	400	\$2,929.41	\$3,220.55	\$291.14	9.94%
75	45,000	600	\$3,666.92	\$4,021.84	\$354.92	9.68%
100	20,000	200	\$2,609.61	\$2,861.11	\$251.51	9.64%
100	40,000	400	\$3,896.56	\$4,284.50	\$387.94	9.96%
100	60,000	600	\$4,879.90	\$5,352.88	\$472.97	9.69%
200	40,000	200	\$5,191.24	\$5,693.50	\$502.26	9.68%
200	80,000	400	\$7,765.13	\$8,540.26	\$775.13	9.98%
200	120,000	600	\$9,731.82	\$10,677.02	\$945.20	9.71%
300	60,000	200	\$7,772.87	\$8,525.88	\$753.01	9.69%
300	120,000	400	\$11,633.71	\$12,796.02	\$1,162.31	9.99%
300	180,000	600	\$14,583.75	\$16,001.16	\$1,417.42	9.72%
400	80,000	200	\$10,354.50	\$11,358.26	\$1,003.76	9.69%
400	160,000	400	\$15,502.28	\$17,051.78	\$1,549.50	10.00%
400	240,000	600	\$19,435.67	\$21,325.31	\$1,889.64	9.72%
500	100,000	200	\$12,936.12	\$14,190.64	\$1,254.52	9.70%
500	200,000	400	\$19,370.86	\$21,307.55	\$1,936.69	10.00%
500	300,000	600	\$24,287.59	\$26,649.45	\$2,361.86	9.72%
750	150,000	200	\$19,390.20	\$21,271.59	\$1,881.40	9.70%
750	300,000	400	\$29,042.30	\$31,946.95	\$2,904.66	10.00%
750	450,000	600	\$36,417.40	\$39,959.81	\$3,542.42	9.73%
1,000	200,000	200	\$25,844.27	\$28,352.55	\$2,508.28	9.71%
1,000	400,000	400	\$38,713.73	\$42,586.36	\$3,872.62	10.00%
1,000	600,000	600	\$48,547.20	\$53,270.17	\$4,722.97	9.73%

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Primary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$400.08	\$440.99	\$40.91	10.23%
15	6,000	400	\$589.97	\$650.89	\$60.92	10.33%
15	9,000	600	\$734.33	\$807.55	\$73.22	9.97%
25	5,000	200	\$648.14	\$715.82	\$67.68	10.44%
25	10,000	400	\$964.63	\$1,065.66	\$101.03	10.47%
25	15,000	600	\$1,205.23	\$1,326.75	\$121.53	10.08%
50	10,000	200	\$1,268.30	\$1,402.91	\$134.61	10.61%
50	20,000	400	\$1,901.29	\$2,102.59	\$201.31	10.59%
50	30,000	600	\$2,382.47	\$2,624.77	\$242.30	10.17%
75	15,000	200	\$1,888.47	\$2,090.00	\$201.54	10.67%
75	30,000	400	\$2,837.94	\$3,139.52	\$301.58	10.63%
75	45,000	600	\$3,559.72	\$3,922.80	\$363.08	10.20%
100	20,000	200	\$2,508.63	\$2,777.09	\$268.47	10.70%
100	40,000	400	\$3,774.60	\$4,176.46	\$401.86	10.65%
100	60,000	600	\$4,736.96	\$5,220.82	\$483.85	10.21%
200	40,000	200	\$4,989.28	\$5,525.46	\$536.18	10.75%
200	80,000	400	\$7,521.21	\$8,324.18	\$802.97	10.68%
200	120,000	600	\$9,445.94	\$10,412.90	\$966.96	10.24%
300	60,000	200	\$7,469.93	\$8,273.82	\$803.89	10.76%
300	120,000	400	\$11,267.83	\$12,471.90	\$1,204.07	10.69%
300	180,000	600	\$14,154.93	\$15,604.98	\$1,450.06	10.24%
400	80,000	200	\$9,950.58	\$11,022.18	\$1,071.60	10.77%
400	160,000	400	\$15,014.44	\$16,619.62	\$1,605.18	10.69%
400	240,000	600	\$18,863.91	\$20,797.07	\$1,933.16	10.25%
500	100,000	200	\$12,431.22	\$13,770.54	\$1,339.32	10.77%
500	200,000	400	\$18,761.06	\$20,767.35	\$2,006.29	10.69%
500	300,000	600	\$23,572.89	\$25,989.15	\$2,416.26	10.25%
750	150,000	200	\$18,632.85	\$20,641.44	\$2,008.60	10.78%
750	300,000	400	\$28,127.60	\$31,136.65	\$3,009.06	10.70%
750	450,000	600	\$35,345.35	\$38,969.36	\$3,624.02	10.25%
1,000	200,000	200	\$24,834.47	\$27,512.35	\$2,677.88	10.78%
1,000	400,000	400	\$37,494.13	\$41,505.96	\$4,011.82	10.70%
1,000	600,000	600	\$47,117.80	\$51,949.57	\$4,831.77	10.25%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Secondary Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$416.66	\$454.83	\$38.17	9.16%
15	6,000	400	\$607.14	\$665.58	\$58.44	9.63%
15	9,000	600	\$752.08	\$823.08	\$71.00	9.44%
25	5,000	200	\$673.12	\$736.23	\$63.12	9.38%
25	10,000	400	\$990.58	\$1,087.48	\$96.90	9.78%
25	15,000	600	\$1,232.15	\$1,349.98	\$117.83	9.56%
50	10,000	200	\$1,314.25	\$1,439.73	\$125.48	9.55%
50	20,000	400	\$1,949.18	\$2,142.23	\$193.05	9.90%
50	30,000	600	\$2,432.31	\$2,667.23	\$234.92	9.66%
75	15,000	200	\$1,955.39	\$2,143.23	\$187.84	9.61%
75	30,000	400	\$2,907.78	\$3,196.98	\$289.20	9.95%
75	45,000	600	\$3,632.48	\$3,984.48	\$352.00	9.69%
100	20,000	200	\$2,596.52	\$2,846.73	\$250.21	9.64%
100	40,000	400	\$3,866.38	\$4,251.73	\$385.34	9.97%
100	60,000	600	\$4,832.64	\$5,301.73	\$469.08	9.71%
200	40,000	200	\$5,161.07	\$5,660.73	\$499.66	9.68%
200	80,000	400	\$7,700.79	\$8,470.72	\$769.94	10.00%
200	120,000	600	\$9,633.31	\$10,570.72	\$937.41	9.73%
300	60,000	200	\$7,725.61	\$8,474.73	\$749.12	9.70%
300	120,000	400	\$11,535.19	\$12,689.72	\$1,154.53	10.01%
300	180,000	600	\$14,433.97	\$15,839.71	\$1,405.74	9.74%
500	100,000	200	\$12,854.69	\$14,102.72	\$1,248.03	9.71%
500	200,000	400	\$19,204.00	\$21,127.71	\$1,923.71	10.02%
500	300,000	600	\$24,035.30	\$26,377.69	\$2,342.39	9.75%
1,000	200,000	200	\$25,677.41	\$28,172.71	\$2,495.30	9.72%
1,000	400,000	400	\$38,376.02	\$42,222.68	\$3,846.66	10.02%
1,000	600,000	600	\$48,038.63	\$52,722.66	\$4,684.03	9.75%
3,000	600,000	200	\$76,968.27	\$84,452.66	\$7,484.39	9.72%
3,000	1,200,000	400	\$115,064.10	\$126,602.58	\$11,538.49	10.03%
3,000	1,800,000	600	\$144,051.92	\$158,102.51	\$14,050.58	9.75%
5,000	1,000,000	200	\$128,259.13	\$140,732.61	\$12,473.48	9.73%
5,000	2,000,000	400	\$191,752.17	\$210,982.48	\$19,230.31	10.03%
5,000	3,000,000	600	\$240,065.22	\$263,482.35	\$23,417.14	9.75%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Primary Voltage)

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$401.51	\$442.23	\$40.72	10.14%
15	6,000	400	\$588.85	\$649.38	\$60.53	10.28%
15	9,000	600	\$730.64	\$803.27	\$72.63	9.94%
25	5,000	200	\$647.87	\$715.23	\$67.36	10.40%
25	10,000	400	\$960.09	\$1,060.47	\$100.38	10.46%
25	15,000	600	\$1,196.41	\$1,316.97	\$120.55	10.08%
50	10,000	200	\$1,263.76	\$1,397.72	\$133.96	10.60%
50	20,000	400	\$1,888.20	\$2,088.21	\$200.01	10.59%
50	30,000	600	\$2,360.84	\$2,601.20	\$240.36	10.18%
75	15,000	200	\$1,879.65	\$2,080.22	\$200.56	10.67%
75	30,000	400	\$2,816.31	\$3,115.95	\$299.64	10.64%
75	45,000	600	\$3,525.27	\$3,885.43	\$360.16	10.22%
100	20,000	200	\$2,495.54	\$2,762.71	\$267.17	10.71%
100	40,000	400	\$3,744.42	\$4,143.69	\$399.26	10.66%
100	60,000	600	\$4,689.70	\$5,169.67	\$479.96	10.23%
200	40,000	200	\$4,959.11	\$5,492.69	\$533.58	10.76%
200	80,000	400	\$7,456.87	\$8,254.64	\$797.78	10.70%
200	120,000	600	\$9,347.43	\$10,306.60	\$959.17	10.26%
300	60,000	200	\$7,422.67	\$8,222.67	\$800.00	10.78%
300	120,000	400	\$11,169.31	\$12,365.60	\$1,196.29	10.71%
300	180,000	600	\$14,005.15	\$15,443.53	\$1,438.38	10.27%
500	100,000	200	\$12,349.79	\$13,682.62	\$1,332.83	10.79%
500	200,000	400	\$18,594.20	\$20,587.51	\$1,993.31	10.72%
500	300,000	600	\$23,320.60	\$25,717.39	\$2,396.79	10.28%
1,000	200,000	200	\$24,667.61	\$27,332.51	\$2,664.90	10.80%
1,000	400,000	400	\$37,156.42	\$41,142.28	\$3,985.86	10.73%
1,000	600,000	600	\$46,609.23	\$51,402.06	\$4,792.83	10.28%
3,000	600,000	200	\$73,938.87	\$81,932.06	\$7,993.19	10.81%
3,000	1,200,000	400	\$111,405.30	\$123,361.38	\$11,956.09	10.73%
3,000	1,800,000	600	\$139,763.72	\$154,140.71	\$14,376.98	10.29%
5,000	1,000,000	200	\$123,210.13	\$136,531.61	\$13,321.48	10.81%
5,000	2,000,000	400	\$185,654.17	\$205,580.48	\$19,926.31	10.73%
5,000	3,000,000	600	\$232,918.22	\$256,879.35	\$23,961.14	10.29%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Transmission Transformed Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$385.40	\$418.97	\$33.57	8.71%
15	6,000	400	\$567.87	\$620.86	\$52.99	9.33%
15	9,000	600	\$704.80	\$769.50	\$64.71	9.18%
25	5,000	200	\$621.02	\$676.47	\$55.45	8.93%
25	10,000	400	\$925.13	\$1,012.95	\$87.82	9.49%
25	15,000	600	\$1,153.35	\$1,260.69	\$107.34	9.31%
50	10,000	200	\$1,210.05	\$1,320.20	\$110.15	9.10%
50	20,000	400	\$1,818.28	\$1,993.17	\$174.89	9.62%
50	30,000	600	\$2,274.71	\$2,488.64	\$213.93	9.40%
75	15,000	200	\$1,799.09	\$1,963.94	\$164.85	9.16%
75	30,000	400	\$2,711.43	\$2,973.39	\$261.96	9.66%
75	45,000	600	\$3,396.08	\$3,716.59	\$320.51	9.44%
100	20,000	200	\$2,388.12	\$2,607.67	\$219.55	9.19%
100	40,000	400	\$3,604.58	\$3,953.61	\$349.02	9.68%
100	60,000	600	\$4,517.44	\$4,944.55	\$427.10	9.45%
200	40,000	200	\$4,744.27	\$5,182.61	\$438.34	9.24%
200	80,000	400	\$7,177.19	\$7,874.48	\$697.30	9.72%
200	120,000	600	\$9,002.91	\$9,856.36	\$853.45	9.48%
300	60,000	200	\$7,100.41	\$7,757.55	\$657.14	9.25%
300	120,000	400	\$10,749.79	\$11,795.36	\$1,045.57	9.73%
300	180,000	600	\$13,488.37	\$14,768.17	\$1,279.80	9.49%
500	100,000	200	\$11,812.69	\$12,907.42	\$1,094.73	9.27%
500	200,000	400	\$17,895.00	\$19,637.11	\$1,742.11	9.74%
500	300,000	600	\$22,459.30	\$24,591.79	\$2,132.49	9.49%
1,000	200,000	200	\$23,593.41	\$25,782.11	\$2,188.70	9.28%
1,000	400,000	400	\$35,758.02	\$39,241.48	\$3,483.46	9.74%
1,000	600,000	600	\$44,886.63	\$49,150.86	\$4,264.23	9.50%
3,000	600,000	200	\$70,716.27	\$77,280.86	\$6,564.59	9.28%
3,000	1,200,000	400	\$107,210.10	\$117,658.98	\$10,448.89	9.75%
3,000	1,800,000	600	\$134,595.92	\$147,387.11	\$12,791.18	9.50%
5,000	1,000,000	200	\$117,839.13	\$128,779.61	\$10,940.48	9.28%
5,000	2,000,000	400	\$178,662.17	\$196,076.48	\$17,414.31	9.75%
5,000	3,000,000	600	\$224,305.22	\$245,623.35	\$21,318.14	9.50%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Transmission Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$373.10	\$404.41	\$31.30	8.39%
15	6,000	400	\$555.27	\$605.98	\$50.71	9.13%
15	9,000	600	\$691.90	\$754.30	\$62.40	9.02%
25	5,000	200	\$600.52	\$652.19	\$51.67	8.60%
25	10,000	400	\$904.13	\$988.14	\$84.01	9.29%
25	15,000	600	\$1,131.85	\$1,235.35	\$103.50	9.14%
50	10,000	200	\$1,169.05	\$1,271.64	\$102.59	8.78%
50	20,000	400	\$1,776.28	\$1,943.55	\$167.27	9.42%
50	30,000	600	\$2,231.71	\$2,437.96	\$206.25	9.24%
75	15,000	200	\$1,737.59	\$1,891.10	\$153.51	8.83%
75	30,000	400	\$2,648.43	\$2,898.96	\$250.53	9.46%
75	45,000	600	\$3,331.58	\$3,640.57	\$308.99	9.27%
100	20,000	200	\$2,306.12	\$2,510.55	\$204.43	8.86%
100	40,000	400	\$3,520.58	\$3,854.37	\$333.78	9.48%
100	60,000	600	\$4,431.44	\$4,843.19	\$411.74	9.29%
200	40,000	200	\$4,580.27	\$4,988.37	\$408.10	8.91%
200	80,000	400	\$7,009.19	\$7,676.00	\$666.82	9.51%
200	120,000	600	\$8,830.91	\$9,653.64	\$822.73	9.32%
300	60,000	200	\$6,854.41	\$7,466.19	\$611.78	8.93%
300	120,000	400	\$10,497.79	\$11,497.64	\$999.85	9.52%
300	180,000	600	\$13,230.37	\$14,464.09	\$1,233.72	9.32%
500	100,000	200	\$11,402.69	\$12,421.82	\$1,019.13	8.94%
500	200,000	400	\$17,475.00	\$19,140.91	\$1,665.91	9.53%
500	300,000	600	\$22,029.30	\$24,084.99	\$2,055.69	9.33%
1,000	200,000	200	\$22,773.41	\$24,810.91	\$2,037.50	8.95%
1,000	400,000	400	\$34,918.02	\$38,249.08	\$3,331.06	9.54%
1,000	600,000	600	\$44,026.63	\$48,137.26	\$4,110.63	9.34%
3,000	600,000	200	\$68,256.27	\$74,367.26	\$6,110.99	8.95%
3,000	1,200,000	400	\$104,690.10	\$114,681.78	\$9,991.69	9.54%
3,000	1,800,000	600	\$132,015.92	\$144,346.31	\$12,330.38	9.34%
5,000	1,000,000	200	\$113,739.13	\$123,923.61	\$10,184.48	8.95%
5,000	2,000,000	400	\$174,462.17	\$191,114.48	\$16,652.31	9.54%
5,000	3,000,000	600	\$220,005.22	\$240,555.35	\$20,550.14	9.34%

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Overhead) - A01

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$38.80	\$45.41	\$6.60	17.02%
	300	\$44.85	\$52.47	\$7.62	16.99%
	400	\$56.94	\$66.59	\$9.65	16.95%
	500	\$69.03	\$80.71	\$11.68	16.93%
	600	\$81.12	\$94.83	\$13.72	16.91%
	675	\$90.18	\$105.42	\$15.24	16.90%
	750	\$99.25	\$116.01	\$16.76	16.89%
	1000	\$129.47	\$151.31	\$21.84	16.87%
	1500	\$189.92	\$221.92	\$32.00	16.85%
	2000	\$250.36	\$292.52	\$42.16	16.84%
	3000	\$371.26	\$433.73	\$62.48	16.83%
	4000	\$492.15	\$574.94	\$82.80	16.82%
5000	\$613.04	\$716.15	\$103.11	16.82%	
SUMMER	250	\$43.53	\$50.63	\$7.10	16.31%
	300	\$50.52	\$58.73	\$8.21	16.26%
	400	\$64.50	\$74.94	\$10.44	16.19%
	500	\$78.48	\$91.15	\$12.67	16.15%
	600	\$92.46	\$107.36	\$14.90	16.12%
	675	\$102.95	\$119.52	\$16.57	16.10%
	750	\$113.43	\$131.67	\$18.24	16.08%
	1000	\$148.38	\$172.20	\$23.82	16.05%
	1500	\$218.28	\$253.24	\$34.96	16.02%
	2000	\$288.18	\$334.29	\$46.11	16.00%
	3000	\$427.98	\$496.38	\$68.40	15.98%
	4000	\$567.78	\$658.47	\$90.69	15.97%
5000	\$707.58	\$820.56	\$112.98	15.97%	
AVERAGE MONTHLY	250	\$40.38	\$47.15	\$6.77	16.76%
	300	\$46.74	\$54.56	\$7.82	16.73%
	400	\$59.46	\$69.37	\$9.92	16.68%
	500	\$72.18	\$84.19	\$12.01	16.64%
	600	\$84.90	\$99.01	\$14.11	16.62%
	675	\$94.44	\$110.12	\$15.68	16.61%
	750	\$103.98	\$121.23	\$17.26	16.60%
	1000	\$135.77	\$158.28	\$22.50	16.57%
	1500	\$199.37	\$232.36	\$32.99	16.55%
	2000	\$262.97	\$306.45	\$43.48	16.53%
	3000	\$390.16	\$454.62	\$64.45	16.52%
	4000	\$517.36	\$602.79	\$85.43	16.51%
5000	\$644.55	\$750.96	\$106.40	16.51%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - A01

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$33.77	\$38.63	\$4.86	14.41%
	300	\$38.40	\$43.94	\$5.53	14.41%
	400	\$47.68	\$54.55	\$6.87	14.41%
	500	\$56.95	\$65.16	\$8.20	14.41%
	600	\$66.23	\$75.77	\$9.54	14.41%
	675	\$73.18	\$83.72	\$10.54	14.41%
	750	\$80.14	\$91.68	\$11.54	14.40%
	1000	\$103.32	\$118.20	\$14.88	14.40%
	1500	\$149.69	\$171.25	\$21.56	14.40%
	2000	\$196.06	\$224.30	\$28.24	14.40%
	3000	\$288.81	\$330.40	\$41.60	14.40%
	4000	\$381.55	\$436.50	\$54.96	14.40%
5000	\$474.29	\$542.60	\$68.31	14.40%	
SUMMER	250	\$45.53	\$52.63	\$7.10	15.59%
	300	\$52.52	\$60.73	\$8.21	15.64%
	400	\$66.50	\$76.94	\$10.44	15.70%
	500	\$80.48	\$93.15	\$12.67	15.74%
	600	\$94.46	\$109.36	\$14.90	15.77%
	675	\$104.95	\$121.52	\$16.57	15.79%
	750	\$115.43	\$133.67	\$18.24	15.81%
	1000	\$150.38	\$174.20	\$23.82	15.84%
	1500	\$220.28	\$255.24	\$34.96	15.87%
	2000	\$290.18	\$336.29	\$46.11	15.89%
	3000	\$429.98	\$498.38	\$68.40	15.91%
	4000	\$569.78	\$660.47	\$90.69	15.92%
5000	\$709.58	\$822.56	\$112.98	15.92%	
AVERAGE MONTHLY	250	\$37.69	\$43.30	\$5.61	14.88%
	300	\$43.11	\$49.53	\$6.43	14.91%
	400	\$53.95	\$62.01	\$8.06	14.94%
	500	\$64.79	\$74.49	\$9.69	14.96%
	600	\$75.64	\$86.96	\$11.33	14.98%
	675	\$83.77	\$96.32	\$12.55	14.98%
	750	\$91.90	\$105.68	\$13.78	14.99%
	1000	\$119.01	\$136.87	\$17.86	15.01%
	1500	\$173.22	\$199.25	\$26.03	15.03%
	2000	\$227.44	\$261.63	\$34.20	15.04%
	3000	\$335.86	\$386.40	\$50.53	15.05%
	4000	\$444.29	\$511.16	\$66.87	15.05%
5000	\$552.72	\$635.92	\$83.20	15.05%	

RESIDENTIAL SERVICE (Underground) - A03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$40.80	\$47.41	\$6.60	16.19%
	300	\$46.85	\$54.47	\$7.62	16.27%
	400	\$58.94	\$68.59	\$9.65	16.38%
	500	\$71.03	\$82.71	\$11.68	16.45%
	600	\$83.12	\$96.83	\$13.72	16.50%
	675	\$92.18	\$107.42	\$15.24	16.53%
	750	\$101.25	\$118.01	\$16.76	16.56%
	1000	\$131.47	\$153.31	\$21.84	16.61%
	1500	\$191.92	\$223.92	\$32.00	16.67%
	2000	\$252.36	\$294.52	\$42.16	16.71%
	3000	\$373.26	\$435.73	\$62.48	16.74%
	4000	\$494.15	\$576.94	\$82.80	16.76%
5000	\$615.04	\$718.15	\$103.11	16.77%	
SUMMER	250	\$45.53	\$52.63	\$7.10	15.59%
	300	\$52.52	\$60.73	\$8.21	15.64%
	400	\$66.50	\$76.94	\$10.44	15.70%
	500	\$80.48	\$93.15	\$12.67	15.74%
	600	\$94.46	\$109.36	\$14.90	15.77%
	675	\$104.95	\$121.52	\$16.57	15.79%
	750	\$115.43	\$133.67	\$18.24	15.81%
	1000	\$150.38	\$174.20	\$23.82	15.84%
	1500	\$220.28	\$255.24	\$34.96	15.87%
	2000	\$290.18	\$336.29	\$46.11	15.89%
	3000	\$429.98	\$498.38	\$68.40	15.91%
	4000	\$569.78	\$660.47	\$90.69	15.92%
5000	\$709.58	\$822.56	\$112.98	15.92%	
AVERAGE MONTHLY	250	\$42.38	\$49.15	\$6.77	15.97%
	300	\$48.74	\$56.56	\$7.82	16.04%
	400	\$61.46	\$71.37	\$9.92	16.13%
	500	\$74.18	\$86.19	\$12.01	16.20%
	600	\$86.90	\$101.01	\$14.11	16.24%
	675	\$96.44	\$112.12	\$15.68	16.26%
	750	\$105.98	\$123.23	\$17.26	16.28%
	1000	\$137.77	\$160.28	\$22.50	16.33%
	1500	\$201.37	\$234.36	\$32.99	16.38%
	2000	\$264.97	\$308.45	\$43.48	16.41%
	3000	\$392.16	\$456.62	\$64.45	16.44%
	4000	\$519.36	\$604.79	\$85.43	16.45%
5000	\$646.55	\$752.96	\$106.40	16.46%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - A03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$35.77	\$40.63	\$4.86	13.60%
	300	\$40.40	\$45.94	\$5.53	13.69%
	400	\$49.68	\$56.55	\$6.87	13.83%
	500	\$58.95	\$67.16	\$8.20	13.92%
	600	\$68.23	\$77.77	\$9.54	13.98%
	675	\$75.18	\$85.72	\$10.54	14.02%
	750	\$82.14	\$93.68	\$11.54	14.05%
	1000	\$105.32	\$120.20	\$14.88	14.13%
	1500	\$151.69	\$173.25	\$21.56	14.21%
	2000	\$198.06	\$226.30	\$28.24	14.26%
	3000	\$290.81	\$332.40	\$41.60	14.30%
	4000	\$383.55	\$438.50	\$54.96	14.33%
5000	\$476.29	\$544.60	\$68.31	14.34%	
SUMMER	250	\$47.53	\$54.63	\$7.10	14.93%
	300	\$54.52	\$62.73	\$8.21	15.06%
	400	\$68.50	\$78.94	\$10.44	15.24%
	500	\$82.48	\$95.15	\$12.67	15.36%
	600	\$96.46	\$111.36	\$14.90	15.45%
	675	\$106.95	\$123.52	\$16.57	15.50%
	750	\$117.43	\$135.67	\$18.24	15.54%
	1000	\$152.38	\$176.20	\$23.82	15.63%
	1500	\$222.28	\$257.24	\$34.96	15.73%
	2000	\$292.18	\$338.29	\$46.11	15.78%
	3000	\$431.98	\$500.38	\$68.40	15.83%
	4000	\$571.78	\$662.47	\$90.69	15.86%
5000	\$711.58	\$824.56	\$112.98	15.88%	
AVERAGE MONTHLY	250	\$39.69	\$45.30	\$5.61	14.13%
	300	\$45.11	\$51.53	\$6.43	14.25%
	400	\$55.95	\$64.01	\$8.06	14.40%
	500	\$66.79	\$76.49	\$9.69	14.51%
	600	\$77.64	\$88.96	\$11.33	14.59%
	675	\$85.77	\$98.32	\$12.55	14.63%
	750	\$93.90	\$107.68	\$13.78	14.67%
	1000	\$121.01	\$138.87	\$17.86	14.76%
	1500	\$175.22	\$201.25	\$26.03	14.85%
	2000	\$229.44	\$263.63	\$34.20	14.90%
	3000	\$337.86	\$388.40	\$50.53	14.96%
	4000	\$446.29	\$513.16	\$66.87	14.98%
5000	\$554.72	\$637.92	\$83.20	15.00%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - A02

35% On-Peak
 65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$40.02	\$46.47	\$6.45	16.12%
	300	\$45.90	\$53.34	\$7.43	16.19%
	400	\$57.68	\$67.08	\$9.40	16.30%
	500	\$69.45	\$80.83	\$11.37	16.38%
	600	\$81.23	\$94.57	\$13.34	16.43%
	675	\$90.06	\$104.88	\$14.82	16.46%
	750	\$98.89	\$115.19	\$16.30	16.48%
	1000	\$128.32	\$149.55	\$21.22	16.54%
	1500	\$187.20	\$218.27	\$31.07	16.60%
	2000	\$246.07	\$286.99	\$40.92	16.63%
	3000	\$363.81	\$424.43	\$60.61	16.66%
	4000	\$481.56	\$561.87	\$80.31	16.68%
5000	\$599.30	\$699.31	\$100.00	16.69%	
SUMMER	250	\$44.49	\$51.40	\$6.92	15.55%
	300	\$51.27	\$59.26	\$7.99	15.59%
	400	\$64.83	\$74.98	\$10.15	15.66%
	500	\$78.40	\$90.70	\$12.31	15.70%
	600	\$91.96	\$106.42	\$14.46	15.73%
	675	\$102.13	\$118.21	\$16.08	15.74%
	750	\$112.31	\$130.00	\$17.70	15.76%
	1000	\$146.21	\$169.30	\$23.09	15.79%
	1500	\$214.03	\$247.90	\$33.87	15.82%
	2000	\$281.85	\$326.50	\$44.65	15.84%
	3000	\$417.48	\$483.70	\$66.21	15.86%
	4000	\$553.12	\$640.89	\$87.78	15.87%
5000	\$688.75	\$798.09	\$109.34	15.87%	
AVERAGE MONTHLY	250	\$41.51	\$48.11	\$6.60	15.91%
	300	\$47.69	\$55.31	\$7.62	15.98%
	400	\$60.06	\$69.72	\$9.65	16.07%
	500	\$72.43	\$84.12	\$11.68	16.13%
	600	\$84.80	\$98.52	\$13.72	16.17%
	675	\$94.08	\$109.32	\$15.24	16.20%
	750	\$103.36	\$120.12	\$16.76	16.22%
	1000	\$134.29	\$156.13	\$21.84	16.27%
	1500	\$196.14	\$228.14	\$32.00	16.32%
	2000	\$258.00	\$300.16	\$42.16	16.34%
	3000	\$381.70	\$444.18	\$62.48	16.37%
	4000	\$505.41	\$588.21	\$82.80	16.38%
5000	\$629.12	\$732.23	\$103.11	16.39%	

Comparison Of Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - A02

35% On-Peak
 65% Off-Peak

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$35.70	\$40.54	\$4.85	13.58%
	300	\$40.32	\$45.83	\$5.51	13.67%
	400	\$49.56	\$56.40	\$6.84	13.80%
	500	\$58.81	\$66.98	\$8.17	13.89%
	600	\$68.06	\$77.55	\$9.50	13.95%
	675	\$74.99	\$85.48	\$10.49	13.99%
	750	\$81.93	\$93.41	\$11.49	14.02%
	1000	\$105.04	\$119.85	\$14.81	14.10%
	1500	\$151.27	\$172.72	\$21.45	14.18%
	2000	\$197.50	\$225.59	\$28.09	14.22%
	3000	\$289.96	\$331.34	\$41.37	14.27%
	4000	\$382.42	\$437.08	\$54.66	14.29%
5000	\$474.88	\$542.83	\$67.94	14.31%	
SUMMER	250	\$46.49	\$53.40	\$6.92	14.88%
	300	\$53.27	\$61.26	\$7.99	15.01%
	400	\$66.83	\$76.98	\$10.15	15.19%
	500	\$80.40	\$92.70	\$12.31	15.31%
	600	\$93.96	\$108.42	\$14.46	15.39%
	675	\$104.13	\$120.21	\$16.08	15.44%
	750	\$114.31	\$132.00	\$17.70	15.48%
	1000	\$148.21	\$171.30	\$23.09	15.58%
	1500	\$216.03	\$249.90	\$33.87	15.68%
	2000	\$283.85	\$328.50	\$44.65	15.73%
	3000	\$419.48	\$485.70	\$66.21	15.78%
	4000	\$555.12	\$642.89	\$87.78	15.81%
5000	\$690.75	\$800.09	\$109.34	15.83%	
AVERAGE MONTHLY	250	\$39.29	\$44.83	\$5.54	14.09%
	300	\$44.64	\$50.97	\$6.34	14.20%
	400	\$55.32	\$63.26	\$7.94	14.36%
	500	\$66.01	\$75.55	\$9.55	14.46%
	600	\$76.69	\$87.84	\$11.15	14.54%
	675	\$84.71	\$97.06	\$12.35	14.59%
	750	\$92.72	\$106.28	\$13.56	14.62%
	1000	\$119.43	\$137.00	\$17.57	14.71%
	1500	\$172.86	\$198.45	\$25.59	14.80%
	2000	\$226.28	\$259.90	\$33.61	14.85%
	3000	\$333.14	\$382.79	\$49.65	14.91%
	4000	\$439.99	\$505.69	\$65.70	14.93%
5000	\$546.84	\$628.58	\$81.74	14.95%	

Comparison Of Bills At Present & Proposed Rates

SMALL GENERAL SERVICE

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$38.47	\$44.73	\$6.26	16.28%
	300	\$44.01	\$51.24	\$7.22	16.41%
	400	\$55.09	\$64.24	\$9.15	16.61%
	500	\$66.16	\$77.24	\$11.07	16.73%
	600	\$77.24	\$90.24	\$13.00	16.82%
	750	\$93.86	\$109.74	\$15.88	16.92%
	1000	\$121.55	\$142.24	\$20.69	17.02%
	1500	\$176.93	\$207.25	\$30.31	17.13%
	2000	\$232.32	\$272.25	\$39.93	17.19%
	3000	\$343.09	\$402.26	\$59.17	17.25%
	4000	\$453.86	\$532.27	\$78.41	17.28%
5000	\$564.63	\$662.27	\$97.65	17.29%	
SUMMER	250	\$43.21	\$50.00	\$6.79	15.71%
	300	\$49.70	\$57.56	\$7.85	15.80%
	400	\$62.67	\$72.66	\$9.99	15.94%
	500	\$75.65	\$87.77	\$12.12	16.02%
	600	\$88.62	\$102.88	\$14.26	16.09%
	750	\$108.08	\$125.54	\$17.46	16.15%
	1000	\$140.52	\$163.31	\$22.79	16.22%
	1500	\$205.39	\$238.85	\$33.46	16.29%
	2000	\$270.25	\$314.39	\$44.13	16.33%
	3000	\$399.99	\$465.46	\$65.47	16.37%
	4000	\$529.73	\$616.54	\$86.81	16.39%
5000	\$659.47	\$767.62	\$108.15	16.40%	
AVERAGE MONTHLY	250	\$40.05	\$46.49	\$6.44	16.07%
	300	\$45.91	\$53.34	\$7.43	16.19%
	400	\$57.62	\$67.05	\$9.43	16.36%
	500	\$69.33	\$80.75	\$11.42	16.48%
	600	\$81.04	\$94.45	\$13.42	16.56%
	750	\$98.60	\$115.01	\$16.41	16.64%
	1000	\$127.87	\$149.26	\$21.39	16.73%
	1500	\$186.42	\$217.78	\$31.36	16.82%
	2000	\$244.96	\$286.30	\$41.33	16.87%
	3000	\$362.06	\$423.33	\$61.27	16.92%
	4000	\$479.15	\$560.36	\$81.21	16.95%
5000	\$596.24	\$697.39	\$101.15	16.96%	

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Secondary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$414.64	\$466.15	\$51.51	12.42%
15	6,000	400	\$607.55	\$686.59	\$79.04	13.01%
15	9,000	600	\$754.91	\$850.98	\$96.07	12.73%
25	5,000	200	\$672.41	\$757.77	\$85.36	12.70%
25	10,000	400	\$993.92	\$1,125.16	\$131.24	13.20%
25	15,000	600	\$1,239.53	\$1,399.15	\$159.62	12.88%
50	10,000	200	\$1,316.84	\$1,486.83	\$169.99	12.91%
50	20,000	400	\$1,959.86	\$2,221.60	\$261.74	13.35%
50	30,000	600	\$2,451.08	\$2,769.58	\$318.49	12.99%
75	15,000	200	\$1,961.27	\$2,215.88	\$254.61	12.98%
75	30,000	400	\$2,925.81	\$3,318.04	\$392.24	13.41%
75	45,000	600	\$3,662.64	\$4,140.01	\$477.37	13.03%
100	20,000	200	\$2,605.71	\$2,944.94	\$339.23	13.02%
100	40,000	400	\$3,891.75	\$4,414.49	\$522.74	13.43%
100	60,000	600	\$4,874.19	\$5,510.44	\$636.25	13.05%
200	40,000	200	\$5,183.43	\$5,861.15	\$677.72	13.07%
200	80,000	400	\$7,755.52	\$8,800.25	\$1,044.74	13.47%
200	120,000	600	\$9,720.40	\$10,992.15	\$1,271.75	13.08%
300	60,000	200	\$7,761.16	\$8,777.37	\$1,016.21	13.09%
300	120,000	400	\$11,619.28	\$13,186.02	\$1,566.73	13.48%
300	180,000	600	\$14,566.61	\$16,473.87	\$1,907.26	13.09%
400	80,000	200	\$10,338.89	\$11,693.58	\$1,354.70	13.10%
400	160,000	400	\$15,483.05	\$17,571.78	\$2,088.73	13.49%
400	240,000	600	\$19,412.82	\$21,955.58	\$2,542.76	13.10%
500	100,000	200	\$12,916.61	\$14,609.80	\$1,693.19	13.11%
500	200,000	400	\$19,346.82	\$21,957.55	\$2,610.73	13.49%
500	300,000	600	\$24,259.03	\$27,437.30	\$3,178.27	13.10%
750	150,000	200	\$19,360.93	\$21,900.34	\$2,539.41	13.12%
750	300,000	400	\$29,006.24	\$32,921.96	\$3,915.72	13.50%
750	450,000	600	\$36,374.55	\$41,141.58	\$4,767.03	13.11%
1,000	200,000	200	\$25,805.24	\$29,190.88	\$3,385.64	13.12%
1,000	400,000	400	\$38,665.66	\$43,886.38	\$5,220.71	13.50%
1,000	600,000	600	\$48,490.08	\$54,845.87	\$6,355.79	13.11%

Comparison Of Bills At Present & Proposed Rates

GENERAL SERVICE (Primary Voltage)

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$399.49	\$453.43	\$53.94	13.50%
15	6,000	400	\$589.25	\$670.15	\$80.89	13.73%
15	9,000	600	\$733.47	\$830.82	\$97.35	13.27%
25	5,000	200	\$647.17	\$736.57	\$89.41	13.82%
25	10,000	400	\$963.43	\$1,097.76	\$134.33	13.94%
25	15,000	600	\$1,203.80	\$1,365.55	\$161.75	13.44%
50	10,000	200	\$1,266.35	\$1,444.43	\$178.08	14.06%
50	20,000	400	\$1,898.88	\$2,166.80	\$267.92	14.11%
50	30,000	600	\$2,379.61	\$2,702.38	\$322.76	13.56%
75	15,000	200	\$1,885.54	\$2,152.28	\$266.74	14.15%
75	30,000	400	\$2,834.34	\$3,235.84	\$401.51	14.17%
75	45,000	600	\$3,555.43	\$4,039.21	\$483.77	13.61%
100	20,000	200	\$2,504.73	\$2,860.14	\$355.41	14.19%
100	40,000	400	\$3,769.79	\$4,304.89	\$535.10	14.19%
100	60,000	600	\$4,731.25	\$5,376.04	\$644.79	13.63%
200	40,000	200	\$4,981.47	\$5,691.55	\$710.08	14.25%
200	80,000	400	\$7,511.60	\$8,581.05	\$1,069.46	14.24%
200	120,000	600	\$9,434.52	\$10,723.35	\$1,288.83	13.66%
300	60,000	200	\$7,458.22	\$8,522.97	\$1,064.75	14.28%
300	120,000	400	\$11,253.40	\$12,857.22	\$1,603.81	14.25%
300	180,000	600	\$14,137.79	\$16,070.67	\$1,932.88	13.67%
400	80,000	200	\$9,934.97	\$11,354.38	\$1,419.42	14.29%
400	160,000	400	\$14,995.21	\$17,133.38	\$2,138.17	14.26%
400	240,000	600	\$18,841.06	\$21,417.98	\$2,576.92	13.68%
500	100,000	200	\$12,411.71	\$14,185.80	\$1,774.09	14.29%
500	200,000	400	\$18,737.02	\$21,409.55	\$2,672.53	14.26%
500	300,000	600	\$23,544.33	\$26,765.30	\$3,220.97	13.68%
750	150,000	200	\$18,603.58	\$21,264.34	\$2,660.76	14.30%
750	300,000	400	\$28,091.54	\$32,099.96	\$4,008.42	14.27%
750	450,000	600	\$35,302.50	\$40,133.58	\$4,831.08	13.68%
1,000	200,000	200	\$24,795.44	\$28,342.88	\$3,547.44	14.31%
1,000	400,000	400	\$37,446.06	\$42,790.38	\$5,344.31	14.27%
1,000	600,000	600	\$47,060.68	\$53,501.87	\$6,441.19	13.69%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Secondary Voltage)

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$416.08	\$467.31	\$51.23	12.31%
15	6,000	400	\$606.42	\$684.89	\$78.47	12.94%
15	9,000	600	\$751.22	\$846.43	\$95.21	12.67%
25	5,000	200	\$672.14	\$757.03	\$84.89	12.63%
25	10,000	400	\$989.38	\$1,119.67	\$130.29	13.17%
25	15,000	600	\$1,230.72	\$1,388.91	\$158.19	12.85%
50	10,000	200	\$1,312.30	\$1,481.34	\$169.04	12.88%
50	20,000	400	\$1,946.78	\$2,206.62	\$259.84	13.35%
50	30,000	600	\$2,429.46	\$2,745.10	\$315.65	12.99%
75	15,000	200	\$1,952.46	\$2,205.64	\$253.18	12.97%
75	30,000	400	\$2,904.18	\$3,293.57	\$389.39	13.41%
75	45,000	600	\$3,628.19	\$4,101.29	\$473.10	13.04%
100	20,000	200	\$2,592.62	\$2,929.95	\$337.33	13.01%
100	40,000	400	\$3,861.58	\$4,380.52	\$518.94	13.44%
100	60,000	600	\$4,826.93	\$5,457.48	\$630.55	13.06%
200	40,000	200	\$5,153.26	\$5,827.19	\$673.92	13.08%
200	80,000	400	\$7,691.17	\$8,728.32	\$1,037.14	13.48%
200	120,000	600	\$9,621.89	\$10,882.25	\$1,260.36	13.10%
300	60,000	200	\$7,713.90	\$8,724.42	\$1,010.52	13.10%
300	120,000	400	\$11,520.77	\$13,076.11	\$1,555.34	13.50%
300	180,000	600	\$14,416.84	\$16,307.01	\$1,890.17	13.11%
500	100,000	200	\$12,835.18	\$14,518.88	\$1,683.70	13.12%
500	200,000	400	\$19,179.96	\$21,771.71	\$2,591.75	13.51%
500	300,000	600	\$24,006.74	\$27,156.54	\$3,149.80	13.12%
1,000	200,000	200	\$25,638.39	\$29,005.04	\$3,366.66	13.13%
1,000	400,000	400	\$38,327.95	\$43,510.70	\$5,182.76	13.52%
1,000	600,000	600	\$47,981.51	\$54,280.36	\$6,298.85	13.13%
3,000	600,000	200	\$76,851.20	\$86,949.69	\$10,098.50	13.14%
3,000	1,200,000	400	\$114,919.88	\$130,466.66	\$15,546.78	13.53%
3,000	1,800,000	600	\$143,880.56	\$162,775.63	\$18,895.07	13.13%
5,000	1,000,000	200	\$128,064.01	\$144,894.34	\$16,830.33	13.14%
5,000	2,000,000	400	\$191,511.81	\$217,422.62	\$25,910.81	13.53%
5,000	3,000,000	600	\$239,779.61	\$271,270.90	\$31,491.30	13.13%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Primary Voltage)

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$400.93	\$454.59	\$53.66	13.38%
15	6,000	400	\$588.13	\$668.45	\$80.32	13.66%
15	9,000	600	\$729.78	\$826.27	\$96.49	13.22%
25	5,000	200	\$646.90	\$735.83	\$88.93	13.75%
25	10,000	400	\$958.89	\$1,092.27	\$133.38	13.91%
25	15,000	600	\$1,194.98	\$1,355.31	\$160.33	13.42%
50	10,000	200	\$1,261.81	\$1,438.94	\$177.13	14.04%
50	20,000	400	\$1,885.80	\$2,151.82	\$266.02	14.11%
50	30,000	600	\$2,357.99	\$2,677.90	\$319.92	13.57%
75	15,000	200	\$1,876.73	\$2,142.04	\$265.32	14.14%
75	30,000	400	\$2,812.71	\$3,211.37	\$398.66	14.17%
75	45,000	600	\$3,520.99	\$4,000.49	\$479.50	13.62%
100	20,000	200	\$2,491.64	\$2,845.15	\$353.51	14.19%
100	40,000	400	\$3,739.62	\$4,270.92	\$531.30	14.21%
100	60,000	600	\$4,683.99	\$5,323.08	\$639.09	13.64%
200	40,000	200	\$4,951.30	\$5,657.59	\$706.28	14.26%
200	80,000	400	\$7,447.25	\$8,509.12	\$1,061.86	14.26%
200	120,000	600	\$9,336.01	\$10,613.45	\$1,277.44	13.68%
300	60,000	200	\$7,410.96	\$8,470.02	\$1,059.06	14.29%
300	120,000	400	\$11,154.89	\$12,747.31	\$1,592.42	14.28%
300	180,000	600	\$13,988.02	\$15,903.81	\$1,915.79	13.70%
500	100,000	200	\$12,330.28	\$14,094.88	\$1,764.60	14.31%
500	200,000	400	\$18,570.16	\$21,223.71	\$2,653.55	14.29%
500	300,000	600	\$23,292.04	\$26,484.54	\$3,192.50	13.71%
1,000	200,000	200	\$24,628.59	\$28,157.04	\$3,528.46	14.33%
1,000	400,000	400	\$37,108.35	\$42,414.70	\$5,306.36	14.30%
1,000	600,000	600	\$46,552.11	\$52,936.36	\$6,384.25	13.71%
3,000	600,000	200	\$73,821.80	\$84,405.69	\$10,583.90	14.34%
3,000	1,200,000	400	\$111,261.08	\$127,178.66	\$15,917.58	14.31%
3,000	1,800,000	600	\$139,592.36	\$158,743.63	\$19,151.27	13.72%
5,000	1,000,000	200	\$123,015.01	\$140,654.34	\$17,639.33	14.34%
5,000	2,000,000	400	\$185,413.81	\$211,942.62	\$26,528.81	14.31%
5,000	3,000,000	600	\$232,632.61	\$264,550.90	\$31,918.30	13.72%

Comparison Of Bills At Present & Proposed Rates

GENERAL TOD SERVICE (Transmission Transformed Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$384.82	\$428.16	\$43.34	11.26%
15	6,000	400	\$567.15	\$636.60	\$69.45	12.24%
15	9,000	600	\$703.94	\$788.99	\$85.05	12.08%
25	5,000	200	\$620.04	\$691.78	\$71.74	11.57%
25	10,000	400	\$923.93	\$1,039.18	\$115.25	12.47%
25	15,000	600	\$1,151.92	\$1,293.18	\$141.26	12.26%
50	10,000	200	\$1,208.10	\$1,350.85	\$142.75	11.82%
50	20,000	400	\$1,815.88	\$2,045.64	\$229.76	12.65%
50	30,000	600	\$2,271.86	\$2,553.63	\$281.78	12.40%
75	15,000	200	\$1,796.16	\$2,009.91	\$213.75	11.90%
75	30,000	400	\$2,707.83	\$3,052.10	\$344.27	12.71%
75	45,000	600	\$3,391.79	\$3,814.09	\$422.29	12.45%
100	20,000	200	\$2,384.22	\$2,668.97	\$284.75	11.94%
100	40,000	400	\$3,599.78	\$4,058.56	\$458.78	12.74%
100	60,000	600	\$4,511.73	\$5,074.54	\$562.81	12.47%
200	40,000	200	\$4,736.46	\$5,305.23	\$568.76	12.01%
200	80,000	400	\$7,167.57	\$8,084.40	\$916.82	12.79%
200	120,000	600	\$8,991.49	\$10,116.37	\$1,124.88	12.51%
300	60,000	200	\$7,088.70	\$7,941.48	\$852.78	12.03%
300	120,000	400	\$10,735.37	\$12,110.23	\$1,374.86	12.81%
300	180,000	600	\$13,471.24	\$15,158.19	\$1,686.95	12.52%
500	100,000	200	\$11,793.18	\$13,213.98	\$1,420.80	12.05%
500	200,000	400	\$17,870.96	\$20,161.91	\$2,290.95	12.82%
500	300,000	600	\$22,430.74	\$25,241.84	\$2,811.10	12.53%
1,000	200,000	200	\$23,554.39	\$26,395.24	\$2,840.86	12.06%
1,000	400,000	400	\$35,709.95	\$40,291.10	\$4,581.16	12.83%
1,000	600,000	600	\$44,829.51	\$50,450.96	\$5,621.45	12.54%
3,000	600,000	200	\$70,599.20	\$79,120.29	\$8,521.10	12.07%
3,000	1,200,000	400	\$107,065.88	\$120,807.86	\$13,741.98	12.84%
3,000	1,800,000	600	\$134,424.56	\$151,287.43	\$16,862.87	12.54%
5,000	1,000,000	200	\$117,644.01	\$131,845.34	\$14,201.33	12.07%
5,000	2,000,000	400	\$178,421.81	\$201,324.62	\$22,902.81	12.84%
5,000	3,000,000	600	\$224,019.61	\$252,123.90	\$28,104.30	12.55%

GENERAL TOD SERVICE (Transmission Voltage)

40% On-Peak

60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$372.52	\$412.83	\$40.32	10.82%
15	6,000	400	\$554.55	\$620.94	\$66.39	11.97%
15	9,000	600	\$691.04	\$773.01	\$81.97	11.86%
25	5,000	200	\$599.54	\$666.24	\$66.70	11.12%
25	10,000	400	\$902.93	\$1,013.09	\$110.16	12.20%
25	15,000	600	\$1,130.42	\$1,266.54	\$136.12	12.04%
50	10,000	200	\$1,167.10	\$1,299.76	\$132.66	11.37%
50	20,000	400	\$1,773.88	\$1,993.46	\$219.58	12.38%
50	30,000	600	\$2,228.86	\$2,500.36	\$271.51	12.18%
75	15,000	200	\$1,734.66	\$1,933.27	\$198.61	11.45%
75	30,000	400	\$2,644.83	\$2,973.83	\$329.00	12.44%
75	45,000	600	\$3,327.29	\$3,734.18	\$406.89	12.23%
100	20,000	200	\$2,302.22	\$2,566.79	\$264.57	11.49%
100	40,000	400	\$3,515.78	\$3,954.20	\$438.42	12.47%
100	60,000	600	\$4,425.73	\$4,968.00	\$542.27	12.25%
200	40,000	200	\$4,572.46	\$5,100.87	\$528.40	11.56%
200	80,000	400	\$6,999.57	\$7,875.68	\$876.10	12.52%
200	120,000	600	\$8,819.49	\$9,903.29	\$1,083.80	12.29%
300	60,000	200	\$6,842.70	\$7,634.94	\$792.24	11.58%
300	120,000	400	\$10,483.37	\$11,797.15	\$1,313.78	12.53%
300	180,000	600	\$13,213.24	\$14,838.57	\$1,625.33	12.30%
500	100,000	200	\$11,383.18	\$12,703.08	\$1,319.90	11.60%
500	200,000	400	\$17,450.96	\$19,640.11	\$2,189.15	12.54%
500	300,000	600	\$22,000.74	\$24,709.14	\$2,708.40	12.31%
1,000	200,000	200	\$22,734.39	\$25,373.44	\$2,639.06	11.61%
1,000	400,000	400	\$34,869.95	\$39,247.50	\$4,377.56	12.55%
1,000	600,000	600	\$43,969.51	\$49,385.56	\$5,416.05	12.32%
3,000	600,000	200	\$68,139.20	\$76,054.89	\$7,915.70	11.62%
3,000	1,200,000	400	\$104,545.88	\$117,677.06	\$13,131.18	12.56%
3,000	1,800,000	600	\$131,844.56	\$148,091.23	\$16,246.67	12.32%
5,000	1,000,000	200	\$113,544.01	\$126,736.34	\$13,192.33	11.62%
5,000	2,000,000	400	\$174,221.81	\$196,106.62	\$21,884.81	12.56%
5,000	3,000,000	600	\$219,719.61	\$246,796.90	\$27,077.30	12.32%

Xcel Energy Company
Marginal Customer Cost Analysis

October 29, 2019

Prepared by

Economists
INCORPORATED

I. Introduction

Xcel Energy Company (the Company) retained Economists Incorporated (EI) to prepare a marginal customer cost of service analysis for its electricity customers. EI has conducted this study by reviewing the characteristics of Xcel Energy's local distribution facilities and other per-customer-related marginal costs required by class, including meter, service drop and customer expenses. This document provides a high-level overview of the approach and preliminary results for the residential class.

II. Overview of Approach

1. Marginal Distribution Facilities Costs

The components of local distribution facilities include primary-to-secondary transformers and switchgear, poles, secondary lines and local primary taps. Local transformers are less extensively shared as compared to upstream distribution substations and therefore Xcel Energy planners design the required size and type of facilities based on the expected number and mix of the customers who will be served from those facilities. The Company uses design standards that implicitly consider the long-term maximum expected demand of these customers.

The marginal cost of local distribution facilities is driven by customer design demand, not the customer's actual peak load or energy usage over time, which is determined at the time the customer connects and at the time of replacing the transformer. Local distribution facilities may vary depending on whether the customer uses all electric appliances (e.g., electric space heating customers) or whether it partially relies on gas. Design demand and cost of facilities also vary depending on whether the installation is underground or overhead, single phase or three-phase. Different costs may be observed in very rural areas as compared to urban areas which are more densely populated.

For residential customers, EI computed marginal per kVA investment in local facilities for various residential customer types (gas space heating, electric heating, urban family homes) using transformers that are more commonly used to serve them. The analysis of local facilities also included an estimate of current average installed conductor cost, separately for overhead and underground. EI's analysis relied on estimates of cost per foot for conductors of various typical types for single phase customers, as well as the cost per kVA of overhead and underground transformers obtained from the Company's recent minimum system study. The marginal facilities cost for each customer type was estimated as the fixed monthly distribution cost per kW of customer's design demand.

The marginal distribution facilities per kVA cost was restated as a per-customer cost using the residential average customer kW of design demand. Marginal distribution facility Operations and Maintenance (O&M) expenses on a per kW of design demand basis were estimated from recent historical FERC Form 1 data, updated to 2020 costs. For each type of connection analyzed, the transformer capacity was divided by the number of customers typically served from each transformer type to obtain a proxy for customer design demand. A weighted average customer design demand was computed across the various scenarios, taking into account that electric space heating customers only represents about 3 percent of Xcel Energy's residential customer base.

2. Meter, Service and Customer Account and Service Expenses

Xcel Energy provided the current installed cost of a typical meter for residential customers. In addition, EI estimated the average installed cost of underground and overhead service drops for residential customers. For this element of service, the Company did not have readily available information on current installed cost. The study relied on a proxy cost per foot and typical length of service based on data from other utilities with similar service territory types.

Marginal residential customer expenses were computed using average customer account expenses per customer by class, and customer service and informational expenses by class. Class per customer expense weights developed for these expenses were consistent with those used in the Company's embedded cost of service study. Marginal installed costs were annualized using an economic carrying charge and adjusted by a general plant loading factor and a plant-related Administrative and General (A&G) loading factor. Marginal O&M expenses were adjusted by the non-plant related A&G loading factor and working capital revenue requirement.

3. Summary of Residential Marginal Customer and Facilities Costs

Table 1 provides the average residential customer-related marginal costs.

Table 1 - Residential Marginal Customer and Facilities Costs

Customer-Related Cost		Customer-Related Facilities Cost		Total Marginal Cost
Annual	Monthly	Annual	Monthly	Sum of Monthly
Marginal	Marginal	Marginal	Marginal	Facilities and
Customer	Customer	Per-Customer	Facilities	Customer
Cost	Cost	Facilities Cost	Cost	Cost
(\$/Cust/year)	(\$/Cust/mo.)	(\$/Cust/year)	\$/kW/mo)	(\$/Cust/mo.)
\$136.94	\$11.41	\$131.20	10.93	\$22.35

		Transmission		
	Secondary	Primary	Transformed	Transmission
1 E8760 Losses	7.77%	6.06%	3.70%	3.56%
2 Percent Difference	0.00%	1.71%	4.07%	4.21%
3 Prior Percent Difference		1.71%	4.35%	4.51%
4 Percent Difference - Max or Ave		1.71%	4.21%	4.36%

Proposed General Service - per kWh

3 Base Energy and Fuel - 2020	6.261 ¢	6.154 ¢	5.998 ¢	5.988 ¢
4 Base Energy and Fuel - 2021	6.316 ¢	6.208 ¢	6.050 ¢	6.041 ¢
5 Base Energy and Fuel - 2022	6.316 ¢	6.208 ¢	6.050 ¢	6.041 ¢

Energy Voltage Discount - per kWh

6 Discount from Secondary - 2020		0.107 ¢	0.263 ¢	0.273 ¢
7 Discount from Secondary - 2021		0.108 ¢	0.266 ¢	0.275 ¢

CCOSS - Page 2

	Distribution Cost - 2020	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 35	\$11,795			\$11,795
2	Pri - Line 34	\$55,871	\$14,403		\$70,273
3	Sub - Line 33	\$36,131	\$8,846	\$1,079	\$46,056
4	Total	\$103,797	\$23,249	\$1,079	\$128,125

Billing KW

5	Sec	38,601			38,601
6	Pri	38,601	8,077		46,678
7	Sub	38,601	8,077	3,687	50,365

Losses

8	Sec	1.0000			
9	Pri	1.0207	1.0000		
10	Sub	1.0368	1.0157	1.0000	

Billing KW with Losses

11	Sec	38,601			38,601
12	Pri	39,401	8,077		47,477
13	Sub	40,022	8,204	3,687	51,913

Cost per kW - 2020

14	Sec (1) / (11)	\$0.31			\$0.31	(a)
15	Pri (2) / (12)	\$1.45	\$1.78		\$1.48	(b)
16	Sub (3) / (13)	\$0.94	\$1.10	\$0.29	\$0.89	(c)

Demand Voltage Discoun	2020 Cost	Present	Proposed
Primary (a)	\$0.31	\$0.80	\$0.60
Tr Transformed (a) + (b)	\$1.79	\$1.55	\$1.70
Trans (a) + (b) + (c)	\$2.67	\$2.35	\$2.50

CCOSS - Page 2

	Distribution Cost - 2021	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 35	\$12,364			\$12,364
2	Pri - Line 34	\$62,294	\$16,064		\$78,357
3	Sub - Line 33	\$39,032	\$9,574	\$1,193	\$49,800
4	Total	\$113,690	\$25,638	\$1,193	\$140,521

Billing KW

5	Sec	38,074			38,074
6	Pri	38,074	7,940		46,014
7	Sub	38,074	7,940	3,618	49,632

Losses

8	Sec	1.0000			
9	Pri	1.0207	1.0000		
10	Sub	1.0368	1.0157	1.0000	

Billing KW with Losses

11	Sec	38,074			38,074
12	Pri	38,862	7,940		46,802
13	Sub	39,475	8,065	3,618	51,158

Cost per kW - 2021

14	Sec (1) / (11)	\$0.32			\$0.32	(a)
15	Pri (2) / (12)	\$1.64	\$2.02		\$1.67	(b)
16	Sub (3) / (13)	\$1.03	\$1.21	\$0.33	\$0.97	(c)

Demand Voltage Discoun	2021 Cost	Present	Proposed
Primary (a)	\$0.32	\$0.80	\$0.60
Tr Transformed (a) + (b)	\$2.00	\$1.55	\$1.80
Trans (a) + (b) + (c)	\$2.97	\$2.35	\$2.75

CCOSS - Page 2

	Distribution Cost - 2022	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 35	\$13,004			\$13,004
2	Pri - Line 34	\$69,444	\$17,919		\$87,363
3	Sub - Line 33	\$41,078	\$10,080	\$1,263	\$52,421
4	Total	\$123,525	\$28,000	\$1,263	\$152,788

Billing KW

5	Sec	37,725			37,725
6	Pri	37,725	7,863		45,587
7	Sub	37,725	7,863	3,579	49,166

Losses

8	Sec	1.0000			
9	Pri	1.0207	1.0000		
10	Sub	1.0368	1.0157	1.0000	

Billing KW with Losses

11	Sec	37,725			37,725
12	Pri	38,505	7,863		46,368
13	Sub	39,113	7,986	3,579	50,678

Cost per kW - 2022

14	Sec (1) / (11)	\$0.34			\$0.34	(a)
15	Pri (2) / (12)	\$1.84	\$2.28		\$1.88	(b)
16	Sub (3) / (13)	\$1.09	\$1.28	\$0.35	\$1.03	(c)

Demand Voltage Discoun	2022 Cost	Present	Proposed
Primary (a)	\$0.34	\$0.80	\$0.60
Tr Transformed (a) + (b)	\$2.23	\$1.55	\$2.00
Trans (a) + (b) + (c)	\$3.26	\$2.35	\$3.00

Fuel Clause Rider - Fuel Adjustment Factor Calculation

		SERVICE CATEGORY					
		Residential	C&I Non-Demd	C&I Demand		Outdoor Lighting	RETAIL
STEP 1: CLASS RATIOS							
1.	Hourly Marginal Energy Costs x Hourly Loads*	\$192,499,126	\$20,311,421	\$428,195,230		\$2,197,163	\$643,202,940
2.	MWh Energy at Generator	9,184,383	927,098	20,778,348		133,284	31,023,113
3.	Load-Weighted Marginal Energy Cost /MWh =(1)/(2)	\$20.959	\$21.909	\$20.608		\$16.485	\$20.733
4.	Class Ratio (Class Unit Cost / Retail Unit Cost)	1.0109	1.0567	0.9940		0.7951	1.0000
STEP 2: C&I DEMAND TOD RATIOS							
				Non-TOD	On-Peak	Off-Peak	
5.	Ratio of On-Peak to Off-Peak System Weighted Marginal Energy Costs				1.528		
6.	C&I Demand Class Time-of-Day Percentages from 8760 loads				0.4031	0.5969	
7.	C&I Demand TOD On-Peak Ratio = 1 / (0.4031 + (0.5969 / 1.528)) **				1.2599		
8.	C&I Demand TOD Off-Peak Ratio = 1 / ((1.528 x 0.4031) + 0.5969) **					0.8245	
9.	C&I Demand Non-TOD On-Peak Weighting			0.4215			
10.	C&I Demand Non-TOD Off-Peak Weighting			0.5785			
11.	C&I Demand Non-TOD Ratio = (0.4215 x 1.2599) + (0.5785 x 0.8245)			1.0080			
STEP 3: FUEL ADJUSTMENT FACTOR							
12.	FAF = Step 1, or for C&I Demand, Step 1 x Step 2	1.0109	1.0567	1.0020	1.2523	0.8196	0.7951
		(4)	(4)	(4) x (11)	(4) x (7)	(4) x (8)	(4)

* E8760 Allocator = Sum of Hourly System Marginal Costs times Hourly Class Loads

** Based on C&I Demand Weighted Average = (40.31% class on-peak x on-peak charge) + (59.69% class off-peak x off-peak charge)