

Direct Testimony and Schedules
Nicholas N. Paluck

Before the North Dakota Public Service Commission
State of North Dakota

In the Matter of the Application of Northern States Power Company
for Authority to Increase Rates for Electric Service in North Dakota

Case No. PU-20-____
Exhibit____(NNP-1)

Rate Design

November 6, 2020

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1 **I. INTRODUCTION**

2

3 Q. PLEASE STATE YOUR NAME AND OCCUPATION.

4 A. My name is Nicholas N. Paluck. I am a Rate Consultant in Regulatory
5 Administration for Northern States Power Company Minnesota (NSPM or the
6 Company).

7

8 Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

9 A. I have 14 years of natural gas and electric pricing experience with Northern
10 States Power Company and Xcel Energy Inc., which includes rate design,
11 revenue determinations, and cost allocations for the utility operating subsidiaries
12 of Xcel Energy Inc. My qualifications and experience are further described in
13 Exhibit___(NNP-1), Schedule 1.

14

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

16 A. I present the Company's proposed rate-revenue analysis and class-revenue
17 responsibility. The Company's proposed rate design also includes specific
18 proposals that are addressed by Company witness Mr. Michael A. Peppin.
19 Finally, I am sponsoring the Company's proposed rate schedules and tariffs.
20 Redlined and non-redlined versions of the tariff sheets, are provided in Volume
21 2 of this application. I am also sponsoring the following schedules included
22 with the NOTICE OF CHANGE IN RATES FOR ELECTRIC SERVICE:

23 Schedule 2 – Sales and Revenue by Rate Schedule

24 Schedule 5 – Comparison of Present and Proposed Rates

25 Schedule 6 – Comparison of Monthly Bills at Present and Proposed Rates

26 Each of these schedules can be found under the tab “Deficiency & Proposed
27 Revenue” in Volume 1 of this application.

1 Q. WHAT IS THE BASIS FOR YOUR PROPOSED CLASS REVENUE RESPONSIBILITY AND
2 RATE DESIGN?

3 A. The Company bases its electric pricing proposals on the following objectives:

- 4 • Produce total revenue equal to test-year revenue requirements, thereby
5 providing the Company a reasonable opportunity to earn its authorized
6 return on investment;
- 7 • Accurately reflect the resource costs of providing service and, where
8 appropriate, the market value of the service;
- 9 • Provide sufficient flexibility in pricing levels and provisions for our
10 electric service to remain competitive in the broader energy market; and
- 11 • Provide reasonable pricing by considering the importance of rate
12 continuity, customer understanding, revenue stability, and administrative
13 practicality.

14

15 Q. HOW IS YOUR TESTIMONY ORGANIZED?

16 A. I present my testimony in the following sections:

- 17 • Rate Revenue Analysis;
- 18 • Class Revenue Responsibility;
- 19 • Rate Design Proposals; and
- 20 • Conclusion.

21

22 II. RATE REVENUE ANALYSIS

23

24 Q. WHAT ARE THE 2021 TEST YEAR ELECTRIC REVENUES FROM SALES AT PRESENT
25 AND PROPOSED RATE LEVELS?

26 A. Table 1 below shows 2021 test year revenues at present and proposed rates for
27 the Electric Utility-North Dakota retail jurisdiction. Revenues are separated

1 into two categories: retail rate revenues and other increases. The “other
2 increases” category is the increase in late payment charge, winter construction
3 and excess footage revenue from the proposed rate level that is an offset to the
4 proposed retail increase.

5
6 **Table 1**
7 **Test-Year Revenue (\$1,000s)**

8

	Present	Proposed	Proposed Increase	Percent Increase
Retail Rate Revenue	\$206,416	\$228,594	\$22,178	10.74%
+ Other Increases	0	50	50	
Total	\$206,416	\$228,644	\$22,228	10.77%

9
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12

13 Company witness Mr. Benjamin C. Halama presents the 2021 test year total
14 revenue deficiency in his Direct Testimony. Present and proposed 2021 test
15 year revenues are based on the application of present and proposed rates to the
16 test-year budgeted sales and customers that are also supported by Mr. Halama.

17
18 Q. HAVE YOU PROVIDED MORE DETAILED COMPARISONS OF TEST-YEAR
19 REVENUES?

20 A. Yes. I prepared the following summary and detailed comparisons of present
21 and proposed rate revenues:

22 • **Sales and Revenue by Rate Schedule**

23 - Filed as Exhibit____(NNP-1), Schedule 2;

24 • **Revenue by Rate Class**

25 - Filed as Exhibit____(NNP-1), Schedule 3; and

26 • **Sales and Revenue by Rate Schedule and Component Detail**

27 - Filed as Exhibit____(NNP-1), Schedule 4.

1 Q. PLEASE DESCRIBE THE COMPARISONS FILED AS EXHIBIT____(NNP-1),
2 SCHEDULE 5 AND EXHIBIT____(NNP-1), SCHEDULE 6.

3 A. Schedule 5 is a comparison by rate schedule of present and proposed base rates,
4 including energy charges both with and without fuel costs. Schedule 6 is a
5 monthly bill comparison by rate schedule of the present and proposed rates at
6 different usage levels.

7

8 **III. CLASS REVENUE RESPONSIBILITY**

9

10 Q. HOW DID YOU DETERMINE THE PROPOSED DISTRIBUTION OF CLASS-REVENUE
11 RESPONSIBILITY?

12 A. The Company is essentially recommending to move the Residential and C&I
13 classes to cost in this proceeding, with a more moderate movement to cost for
14 the Street Lighting class. The Company's embedded Class Cost of Service Study
15 (CCOSS), sponsored by Mr. Peppin, shows each class's share of the overall cost
16 of service. According to the CCOSS results summarized in Table 2 below,
17 simply applying the average retail increase to existing rates would cause the four
18 major customer classes to be either over or under cost by the following
19 amounts:

- 20 • Residential: 0.34 percent over cost
- 21 • C&I Non-Demand: 6.48 percent over cost
- 22 • C&I Demand: 0.40 percent under cost
- 23 • Lighting: 29.00 percent under cost

24

25 The relatively small cost differences for the Residential and C&I Demand
26 classes support setting rates at the cost of service. Moderate class specific
27 movement to bring all classes close to cost is preferred over the average retail

1 increase due to the varying direction and magnitude each class sits from cost.
 2 Additionally, a cost-based apportionment will allow the C&I non-demand class
 3 to be set at a lower cost compared to the retail average as indicated by the
 4 CCOSS. The differential for the Lighting class is larger, so it is appropriate to
 5 use a moderated movement to cost for that class. As explained in more detail
 6 in the rate design section of my testimony, the proposed increase for the
 7 Lighting class as a whole is a result of moderating the significant range of cost
 8 differentials for the three categories within that class. The moderated
 9 apportionment to the lighting class will require both Residential and C&I
 10 Demand revenues to be slightly over cost.

11
 12 **Table 2**
 13 **Rate Revenue and Cost by CCOSS Class (\$1,000s)**

Class	Present Revenue	Cost of Service	Cost Increase %	Proposed Revenue	Proposed Increase %
Residential	\$83,739	\$92,445	10.40%	\$92,644	10.63%
Non-Demand	11,379	11,866	4.28%	11,892	4.50%
C&I Demand	109,232	121,397	11.14%	121,659	11.38%
Lighting	2,066	2,887	39.74%	2,399	16.13%
Total Retail	\$206,416	\$228,594	10.74%	\$228,594	10.74%
Total	\$206,416	\$228,644	10.77%	\$228,644	10.77%

21
 22 Q. PLEASE COMPARE PRESENT AND PROPOSED REVENUES BY SERVICE CLASS WITH
 23 CLASS REVENUE REQUIREMENTS FROM THE CCOSS.

24 A. Table 2 compares present and proposed rate revenue and cost levels by the
 25 major CCOSS class categories. The cost figures above correspond to the
 26 adjusted CCOSS revenue requirements which include a credit for increased late
 27 payment charge revenue.

1 Q. IS THE RECOMMENDED REVENUE APPORTIONMENT CONSISTENT WITH THE
2 COMPANY'S PRICING OBJECTIVES?

3 A. Yes, the revenue apportionment balances the pricing objective of moving
4 customer classes to cost with the pricing objective of rate continuity.

5

6

IV. RATE DESIGN PROPOSALS

7

8 Q. IS THE COMPANY PROPOSING ANY STRUCTURAL CHANGES TO ITS BASIC RATE
9 STRUCTURE?

10 A. No.

11

12 A. Residential and C&I Non-Demand Customer Charges

13 Q. WHAT IS THE PRIMARY FUNCTION OF A CUSTOMER CHARGE?

14 A. The primary function of a customer charge is to recover the fixed cost of serving
15 customers. Customer-related costs include metering, service lines, meter
16 reading, and billing. These costs are not variable with usage. Other industries
17 include similar customer charges, including cable television and internet service.
18 When fixed costs are recovered through a fixed customer charge, costs are more
19 equitably recovered from customers at all usage levels.

20

21 Q. WHAT IS THE FIXED COST OF SERVING CUSTOMERS THAT IS NOT RELATED TO
22 ENERGY USAGE IN THIS CASE?

23 A. According to the CCOSS, the fixed monthly cost of serving residential
24 customers is \$15.41.

1 Q. WHAT LEVEL OF CUSTOMER CHARGES IS THE COMPANY PROPOSING IN THIS
2 CASE FOR RESIDENTIAL SERVICE AND SMALL GENERAL SERVICE CUSTOMERS?

3 A. We are proposing a moderate increase of \$0.75 that will essentially move
4 Residential customer charges to cost. Our proposed customer charges for
5 Residential Service customers are shown in Table 3 below.

6

7

Table 3

8

Residential Service Customer Charges

9

Service Category	Present	Proposed
Residential Overhead	\$14.50	\$15.25
Residential Underground-Standard	\$14.50	\$15.25
Residential Electric Heating - Overhead	\$14.50	\$15.25
Residential Electric Heating - Underground	\$14.50	\$15.25

10

11

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13

14

15 Q. WHY IS IT IMPORTANT TO MAINTAIN FIXED CUSTOMER CHARGES AT COST?

16 A. When fixed customer charges are set below cost, the difference is recovered in
17 variable energy charges. This results in customers with above-average usage
18 subsidizing the cost of serving those customers with below-average usage.

19

20 Q. ARE THERE OTHER CUSTOMER BENEFITS FROM MOVING CLOSER TO COST-
21 BASED CUSTOMER CHARGES?

22 A. Yes. Customers will benefit from our proposed customer charges because their
23 monthly bills will be less sensitive to weather variations. Also, customers with
24 electric water heating or clothes dryers, for example, will pay lower subsidies as
25 a result of the above average usage related to those appliances.

1 **B. Residential Service**

2 Q. PLEASE DESCRIBE THE PROPOSED RATE DESIGN FOR RESIDENTIAL SERVICE
3 OTHER THAN CUSTOMER CHARGES.

4 A. The proposed Residential Service tariff retains the present design structure,
5 including the distinction for electric space heating. After crediting the proposed
6 customer charge revenue against the class revenue allocation, Residential energy
7 charges are calculated by considering a seasonal differential and the Residential
8 cost of service distinction for electric space heating. Based on cost of service
9 distinctions and customer charges that are closer to cost, customers with electric
10 space heating have lower energy charges during the non-summer months of
11 October through May. In order to continue following the overall cost of service
12 differential for electric space heating service, the overall proposed Residential
13 Service increase of 10.6 percent was distributed as a 10.4 percent increase for
14 standard non-heating service and 11.1 percent increase for electric space heating
15 service. The 0.7 percentage point differential was moderated based on the
16 corresponding test-year 2021 cost of service differential, which is 2.7 percentage
17 points.

18
19 **C. C&I Demand Class Rate Design**

20 Q. HOW DID YOU DEVELOP THE PROPOSED RATE DESIGN FOR THE C&I DEMAND
21 CLASS?

22 A. I started by calculating the proposed base energy charge, which is not time-
23 differentiated and is the same for all non-time-of-day tariffs in the C&I Demand
24 class. The base energy charge is calculated using C&I Demand class energy
25 costs and energy-related capacity costs at the secondary voltage level, which is
26 consistent with the Company's stratification approach supported by Mr. Peppin
27 for allocating production plant to customer classes. Next, the cost of fuel was

1 subtracted from the base energy charge, because fuel and purchased energy
2 costs are recovered separately, and the resulting net cost was increased by an
3 additional amount to recover the average cost of the Energy Charge Credit
4 (ECC). The ECC cost is equal to the proposed ECC per kWh times the 12.2
5 percent of sales that qualify for the ECC. Finally, the resulting base energy
6 charge was increased by 0.27 cents per kWh to moderate the increases otherwise
7 required in the demand charge.
8

9 Q. ARE GENERAL TIME OF DAY (TOD) SERVICE ENERGY CHARGES DERIVED
10 FROM THE GENERAL SERVICE ENERGY CHARGE?

11 A. Yes. The General TOD Service base energy charges are the result of separating
12 the General Service base energy charge into on-peak and off-peak components
13 by using a TOD ratio. The level of the General TOD Service base energy
14 charges is set equivalent to the non-TOD charge then weighted by the on-peak
15 and off-peak kWh sales percentages for the C&I Demand class.
16

17 Q. WHAT TOD RATIO DID YOU USE TO SEPARATE THE GENERAL SERVICE BASE
18 ENERGY CHARGE INTO THE GENERAL TOD SERVICE BASE ENERGY CHARGES?

19 A. In this case, I used a TOD ratio of on-peak to off-peak base energy charges
20 (Energy Ratio) of 1.88 to 1.
21

22 One of the goals in designing rates for General TOD Service is to maintain
23 reasonable continuity in the relationship between on-peak and off-peak charges,
24 as measured by the TOD Combined Ratio. The TOD Combined Ratio results
25 from combining the Energy Ratio and TOD fuel cost charges (Fuel Ratio), as
26 shown on Table 4 below. The Fuel Ratio is prescribed as the marginal energy
27 cost ratio for the full test year, which for the 2021 test year is a historically low

1 ratio of 1.45 on-peak to 1 off-peak. In this case, the Energy Ratio of 1.88 to 1
2 was used to balance the low Fuel Ratio to produce a Combined Ratio of 1.73 to
3 1, which is reasonable and maintains consistency with past TOD ratios. This
4 approach also has the advantage of avoiding the excessive influence of what
5 may be a short-term cost pattern in the Fuel Ratio. A comparison of proposed
6 TOD ratios with those from past rate cases is shown in Table 4.

7
8 **Table 4**
9 **Comparison of On-Peak Ratios**

10

Test Year	Energy Ratio	Fuel Ratio	Combined Ratio
2008	1.70	1.70	1.70
2011	1.69	1.63	1.66
2013	1.82	1.61	1.71
2021	1.88	1.45	1.73

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16 Q. WHAT IS THE ECC?

17 A. The ECC or Energy Charge Credit, which has also been referred to as a high
18 load factor credit, is a component of demand-metered rates that applies a credit
19 to kWh energy usage above the 400 hours-use (55 percent load factor) level.
20 The ECC was originally developed in 1993 to mitigate the effect of our
21 stratification-based CCOSS driven demand and energy charges on customers
22 with very high load factors. The ECC is a mathematical device that has the
23 effect of determining the monthly bills of customers at both standard rates and
24 an equivalent rate design with higher demand and lower energy charges, and
25 automatically applies the lower cost option.

1 Q. DOES THE ECC PROVIDE OTHER BENEFITS?

2 A. Yes. The ECC adds precision to two-part TOD energy charges by recognizing
3 that as a customer's load factor increases, a larger portion of energy use occurs
4 when system loads and energy costs are at the lowest levels. The ECC
5 essentially provides much of the benefit of a three-part TOD rate without its
6 substantially greater complexity.

7

8 Q. ARE YOU PROPOSING TO CHANGE THE AMOUNT OF THE ECC?

9 A. Yes. The proposed ECC of 1.25¢ per kWh is a 0.2¢ per kWh increase from the
10 current ECC of 1.05¢ per kWh. This increase is designed to maintain the
11 relationship of the ECC to the combination of base energy and fuel rates.

12

13 Q. HOW DID YOU DEVELOP THE PROPOSED DEMAND CHARGES FOR THE C&I
14 DEMAND CLASS?

15 A. Proposed demand charges were designed to recover the proposed C&I Demand
16 class revenue requirement that is not recovered through the energy and
17 customers charges. This approach also recovers the cost of all interruptible
18 demand charge discounts through demand charges.

19

20 Q. DO THE COMPANY'S PROPOSED DEMAND CHARGES INCLUDE ADDITIONAL
21 INTERRUPTIBLE DISCOUNTS?

22 A. Yes. Proposed interruptible demand charge discounts were increased by an
23 average of 5.98 percent to maintain greater consistency with the Company's
24 rates in its other jurisdictions. The individual proposed increases for the five
25 currently available interruptible service categories range from 5.5 percent to 6.3
26 percent. Table 5 outlines current and proposed interruptible discounts.

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Table 5
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-A
Present	\$4.24	\$3.78.	\$3.09	\$5.01	\$4.45	\$3.66
Proposed	\$4.50	\$4.02	\$3.26	\$5.32	\$4.73	\$3.87
Increase	\$0.26	\$0.24	\$0.17	\$0.31	\$0.28	\$0.21
Increase %	6.1%	6.3%	5.5%	6.2%	6.3.%	5.7%

- Q. WHAT IS THE RESULT OF THE C&I DEMAND RATE DESIGN PROCESS ON THE RELATIVE LEVELS OF PROPOSED DEMAND AND ENERGY CHARGES?
- A. The application of our proposed cost-based rate design process is that the proposed demand charges have a lower percent increase than the proposed energy charges. For firm service at the secondary voltage level, the proposed percent increase to the average annual demand charge is approximately 9.7 percentage points below the proposed base energy charge increase – based on an 18.1 percent demand charge increase and a 27.8. percent increase for the combination of base energy and fuel cost charges.
- Q. DOES THE PROPOSED C&I DEMAND RATE DESIGN PRODUCE CUSTOMER BILL INCREASES THAT VARY BY LOAD FACTOR?
- A. Yes. There is a lower percent increase in customer bills for customers with higher load factors than for customers with lower load factors. These differentials for General Service and General Time of Day Service are shown in Exhibit__(NNP-1), Schedule 6, with the different percent increases for customer load factors at 200, 400 and 600 hours of use per month. For a customer with a demand of 100 kW, the percent increase at the 600 hours use

1 level is approximately three percentage points less than at the 200 hours use
2 level.

3
4 Q. HOW WERE THE VOLTAGE DISCOUNTS DERIVED?

5 A. The energy charge voltage discounts were monetized by multiplying the net
6 decrease in losses at primary, transmission transformed and transmission levels
7 by the General Service energy charge and fuel costs. The demand voltage
8 discounts were calculated by deriving the distribution cost per kW avoided
9 distribution costs. For example, a customer at a primary voltage level causes no
10 secondary distribution cost therefore primary voltage discount removes the
11 impact of secondary distribution cost from the base demand charges calculated
12 at the secondary voltage level. Schedule 8 contains the voltage discount analysis.

13
14 **D. Lighting Services**

15 Q. DO THE PROPOSED LIGHTING RATES RECOGNIZE COST DIFFERENTIALS BY SUB-
16 CATEGORY WITHIN THE LIGHTING CLASS?

17 A. Yes. The proposed revenue levels were determined by moderately applying the
18 CCOSS-indicating adjustments for the three lighting sub-categories. Street
19 lighting for municipal customers includes the System and Energy service cost
20 categories. System service is full service lighting that includes the lighting
21 system, energy, maintenance and repairs. The Energy category includes flat-
22 rate Purchased Equipment services and metered energy-only service. Protective
23 service is full service security lighting that is available for residential and
24 commercial customers. The substantial cost increase indicated by the CCOSS
25 for System service was moderated to a proposed increase of 19.3. percent, or
26 80 percent above the average retail increase. The cost-based rate reductions
27 indicated by the CCOSS for the other sub-categories were also moderated to

1 proposed increases of 15.8 percent for the Energy category and a 13.8 percent
2 increase for Protective lighting. As a result of the moderating limitations
3 required to manage these individual sub-category cost differences, the overall
4 16.1 percent proposed increase for the Lighting class differs from the 39.7.
5 percent increase supported by the CCOSS.

6
7 **E. Fuel Cost Rider**

8 Q. HAS THE PROPOSED FUEL COST RIDER BEEN UPDATED FOR THE TEST YEAR
9 2021?

10 A. Yes. The Service Category Ratio section of the Fuel Cost Rider was updated to
11 be consistent with test year 2021 information. This update was determined
12 using the method approved by the Commission in previous rate cases. The
13 development of these updates is shown in Exhibit___(NNP-1), Schedule 7.

14
15 **F. Tariff Modifications**

16 *1. Peak Controlled Service Rules*

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

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

1 The second clarification is the addition of proposed rule no. 8 regarding new
2 Company testing requirements that are required by the Midcontinent
3 Independent System Operator (MISO). In their FERC filing in Docket ER19-
4 651, MISO stated the following about testing requirements:

5 This proposal, along with the concomitant LMR (Load Modifying
6 Resources) availability filing (Docket ER19-650), is expected to
7 provide MISO's operators with greater certainty regarding the ability
8 of DR (Demand Response) to curtail load during an emergency, by
9 requiring an annual demonstration that may be satisfied by meeting a
10 curtailment instruction or submitting the results of a real power test
11 for such resources prior to qualification in the Planning Resource
12 Auction. MISO believes these enhancements are critical given the
13 increasing operational dependence on LMRs to maintain system
14 reliability and resilience.

15 Real power tests will provide more certainty regarding the level of load relief
16 that will be available during MISO emergency events and the proposed rule will
17 document this requirement.

18
19 *2. Compliance Rate Book Revisions*

20 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY?

21 A. In this section, I provide support for the Company's proposed revisions to our
22 North Dakota Electric Rate Book to improve readability, remove unnecessary
23 phrases and sections, and ensure the terminology used is up-to-date and
24 understandable. The Company's proposed revisions to the Rate Book are
25 provided in Volume 2 of the Application.

26
27 Q. WHY DID THE COMPANY UNDERTAKE THIS COMPREHENSIVE UPDATE OF ITS
28 NORTH DAKOTA ELECTRIC RATE BOOK?

29 A. In the Revised Second Amended Comprehensive Settlement Agreement in the
30 Company's last North Dakota rate case (Case No. PU-12-813) approved by the

1 Commission Order on February 26, 2014 (2014 Settlement), the Company
2 agreed to submit an updated and improved North Dakota Electric Rate Book
3 (Rate Book) no later than the date of its next general rate application. This was
4 requested by Commission Advocacy Staff, who had conducted a review of the
5 Rate Book and felt that certain language was unclear, somewhat outdated, or
6 otherwise in need of improvement. The 2014 Settlement contemplated that the
7 Company would undertake its own thorough review of all tariffs and general
8 rules of service, and update them with language and/or formatting changes that
9 will “improve readability, remove unnecessary phrases or sections, and ensure
10 the terminology is up-to-date and understandable.”
11

12 Q. HOW DID THE COMPANY APPROACH UPDATING THE NORTH DAKOTA
13 ELECTRIC RATE BOOK?

14 A. The Company undertook a line-by-line review and revision process to make the
15 Rate Book more usable by customers, developers, and regulators in North
16 Dakota. In our proposed revisions, we significantly expand the Definitions
17 section in Section 4 of the Rate Book to provide readers a single place to find
18 defined terms. Previously, many technical terms were undefined or were
19 defined in various sections of the Rate Book, making them more difficult to
20 locate. In Section 5 of the Rate Book, we propose to use a more standardized
21 format for all rate schedules to clarify the different rate types and their
22 applicability and facilitate comparisons between rates. In compliance with the
23 2014 Settlement, we propose to cancel several rates and riders which have little
24 or no customer participation and are closed to new customers. In addition to
25 these wholesale changes, we propose wording changes throughout the Rate
26 Book to update the language and make it more readable and understandable.
27

1 Q. DO THE COMPANY’S PROPOSED REVISIONS MEET THE REQUIREMENTS SET
2 FORTH IN THE 2014 SETTLEMENT?

3 A. Yes. The Commission Staff’s objective in this regard was reasonable and the
4 Company has responded by undertaking a thorough and detailed review of our
5 Rate Book. Consistent with the 2014 Settlement, we propose formatting and
6 language changes that will “improve readability, remove unnecessary phrases or
7 sections, and ensure the terminology is up-to-date and understandable,” as I
8 described earlier.

9

10 **G. Rate Design Proposals**

11 *1. Residential Controlled Air Conditioning and Water Heating Rider*

12 Q. PLEASE DESCRIBE THE COMPANY’S PROPOSED REVISIONS TO THE RESIDENTIAL
13 CONTROLLED AIR CONDITIONING AND WATER HEATING RIDER, A DIRECT
14 LOAD CONTROL PROGRAM KNOWN AS SAVER’S SWITCH.

15 A. Residential Service customers with central air conditioning have the option of
16 participating in our Saver’s Switch program, which provides a discount for
17 control of their air conditioner, through the Residential Controlled Air
18 Conditioning and Water Heating Rider. An additional discount is available to
19 customers with an electric water heater that can also be controlled.

20

21 The current rate design provides a 15 percent discount on energy and fuel cost
22 charges during the four summer-season months for controlled air-conditioning.
23 If participating air-conditioning customers also have an electric water heater, an
24 additional 2 percent discount during every month is available for controlled
25 water heating. This design was established when the base cost of fuel was
26 included in energy rates. When all fuel costs were moved from base energy rates
27 into a separate fuel cost charge in 2007, it became necessary to apply the percent

1 discounts to both energy and fuel charges to retain the same discount amounts,
2 increasing administrative complexity.

3
4 The discount levels were created when energy rates were lower than today and
5 the cost of new peaking generation was much higher than it is today. As result,
6 the discount amount for program participation is no longer consistent with the
7 benefits provided by this long-standing demand response option.

8
9 The Company proposes to adjust the Residential Controlled Air Conditioning
10 and Water Heating Rider to more closely align program incentives with
11 customer and utility benefits. We propose to revise the air-conditioning
12 incentive structure to a flat monthly bill credit of \$10 for the months of June-
13 September (\$40 per year). For controlled electric water heating, the additional
14 incentive is proposed as \$2 every billing month (\$24 per year).

15
16 Q. HOW DO CURRENT INCENTIVES FOR THE SAVER'S SWITCH PROGRAM COMPARE
17 TO PROPOSED CREDITS?

18 A. In 2019, Active Saver's Switch program participants received an average annual
19 credit of approximately \$53. Although the proposed \$40 annual credit is lower
20 than the current credit, it is commonly used for comparable direct load control
21 programs across the country and has been successfully used for years in our
22 Colorado jurisdiction. Our higher energy use customers will see a steeper drop
23 in their incentive, but these customers may be better served under a different
24 demand response program.

25
26 Q. WHAT IS THE VALUE OF THE SAVER'S SWITCH PROGRAM?

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

6
7 Although this analysis indicates that the appropriate credit could be less than
8 the proposed \$40 annual credit, we are continuing efforts to make the program
9 more cost-effective by performing annual tests on the equipment to maximize
10 effectiveness and to pursue cost savings in the switch equipment. The ability
11 of the residential Saver's Switch program to control 400 MW of load may also
12 prove more valuable over time as a hedge against possible future spikes in
13 capacity prices. The Company is also looking at other control strategies across
14 all of its demand response programs to integrate renewables, provide load relief
15 at the distribution level, and to minimize energy costs. Work to appropriately
16 assess these emerging value streams is still in the early stages, but these value
17 streams may be significant in the future. For these reasons, the Company
18 believes a \$40 annual credit per customer switch is appropriate.

19
20 Q. WHAT IS THE EXPECTED IMPACT OF THE PROPOSED CHANGE TO THE
21 INCENTIVE AMOUNT AND STRUCTURE FOR THE SAVER'S SWITCH PROGRAM?

22 A. Although we do not anticipate a loss of Saver's Switch customers as a result of
23 this incentive change, the final result is difficult to predict.¹ Some customers
24 may find it helpful to have a defined fixed credit amount rather than a

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 percentage discount, which may encourage customers who have resisted
2 participation in the past. Customers with lower energy usage will also benefit
3 from the proposed incentive design.
4

5 *2. Real Time Pricing (RTP) Service*

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

7 A. No. The Company proposes cancelling the RTP Service tariff, which is more
8 of a complicated time-of-use rate design with pre-established pricing than a pure
9 RTP design based on actual market conditions. The current RTP was
10 established in 2009 and has no current customers.
11

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

13 A. First, no customers have ever received service on this tariff. Second, the
14 essential design and rate relationships in the RTP tariff have remained
15 unchanged since 2009 and are in need of a comprehensive refresh requiring
16 substantial analysis. Cancelling RTP Service would allow more productive use
17 of resources to develop rate designs with greater potential and appeal to
18 customers, especially those with electric vehicles.
19

20 Q. IS THE COMPANY UPDATING THE STRUCTURE OF CURRENT TIME OF DAY
21 TARIFFS IN THIS RATE CASE?

22 A. No. However, the Company is set to begin piloting its three-period residential
23 time-of-use (TOU) tariff in the Minnesota jurisdiction in the coming months.
24 The Company has also proposed a three-period Commercial and Industrial
25 TOU in Minnesota. On the new technology front, the Company has been
26 piloting two residential electric vehicle (EV) tariffs (EV Home Service and EV
27 Subscription Service) and has recently proposed the Multi-Dwelling Unit Pilot

1 EV tariff in Minnesota. These EV tariffs leverage the new residential TOU rate
2 design to provide customers the incentive to charge their EVs during off-peak
3 periods when energy costs are lower. Once the pilots are complete and
4 learnings can be applied to permanent programs, the Company plans to discuss
5 interest in bringing forward similar proposals with North Dakota stakeholders.
6

7 V. CONCLUSION

8

9 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

10 A. The Company's proposed class revenue allocation and rate design is consistent
11 with our pricing objectives and our cost of providing service. The cost-based
12 focus of our overall recommendations will result in fair and reasonable electric
13 pricing that provides an economically sound distribution of cost responsibility.
14

15 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?


16 A. Yes, it does.

1 STATE OF NORTH DAKOTA
2 BEFORE THE
3 PUBLIC SERVICE COMMISSION
4

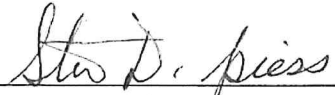
5
6 In the Matter of the Application of Northern)
7 States Power Company, a Minnesota Corporation)
8 For Authority to Increase Rates for Electric Service) Case No. PU-20-____
9 in North Dakota)

10
11
12
13 AFFIDAVIT OF
14 Nicholas N. Paluck
15

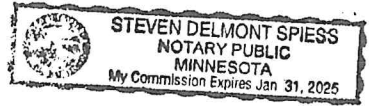
16
17 I, the undersigned, being duly sworn, depose and say that the foregoing is the
18 Direct Testimony of the undersigned, and that such Direct Testimony and the
19 exhibits or schedules sponsored by me to the best of my knowledge, information
20 and belief, are true, correct, accurate and complete, and I hereby adopt said testimony
21 as if given by me in formal hearing, under oath.

22
23
24 
25 _____
26 Nicholas N. Paluck
27

28
29
30 Subscribed and sworn to before me, this 21 day of October, 2020.

31
32 
33 _____
34 Notary Public

35 My Commission Expires: January 31, 2025
36



Statement of Qualifications and Experience

Nicholas N. Paluck

Nicholas Paluck has been employed by Northern States Power Company in pricing positions for 14 years and his current position is Rate Consultant. His job responsibilities include rate design, rate-revenue determinations, and cost allocations for the utility operating subsidiaries of Xcel Energy.

Paluck has supported rate design efforts in proceedings before state regulatory commissions in North Dakota, South Dakota, and Minnesota.

Paluck has presented several topics on rate design at industry conferences.

Paluck received his Bachelor of Arts degree in Economics from the University of Minnesota-Morris and his Master of Business Administration degree from the Carlson School of Management at the University of Minnesota.

Service Schedule	Average Customers	MWH Sales				Test Year Revenue (\$1,000s)							
		Summer		Winter		Summer		Winter		Annual		Increase	
		Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
Residential	80,905	228,169	547,327	775,496	27,709	30,549	55,617	61,640	83,326	92,189	8,863	10.64%	
Residential TOD	39	571	1,282	1,853	69	77	124	139	193	216	23.09	11.96%	
Load Management	398	636	1,225	1,860	78	85	142	154	220	239	18.42	8.35%	
Res Total	81,342	229,376	549,833	779,209	27,857	30,711	55,883	61,934	83,739	92,644	8,905	10.63%	
C&I - Non-Demand	7,965	27,042	68,899	95,941	3,384	3,522	7,242	7,580	10,626	11,102	476	4.48%	
Small General	733	1,073	2,520	3,593	173	181	336	352	508	534	25	4.98%	
Small General TOD	87	188	1,877	2,065	17	18	128	134	145	152	7	4.51%	
C&I - D Total	8,784	28,303	73,295	101,599	3,574	3,721	7,706	8,067	11,280	11,788	508	4.50%	
C&I - Demand	3,688	214,812	434,282	649,094	23,139	25,706	40,597	45,461	63,736	71,167	7,432	11.66%	
General TOD	207	72,686	136,713	209,399	6,324	6,955	10,617	11,735	16,941	18,690	1,749	10.32%	
Peak-Controlled	45	8,595	19,891	28,487	877	990	1,861	2,102	2,738	3,092	354	12.94%	
Peak-Controlled TOD	14	43,121	79,719	122,840	3,288	3,609	5,771	6,351	9,059	9,960	900	9.94%	
Energy-Controlled	56	76,055	137,092	213,146	5,506	6,163	9,795	10,955	15,301	17,118	1,818	11.88%	
Real Time Pricing	0	0	0	0	0	0	0	0	0	0	0	0	
C&I Dmd Total	4,010	415,269	807,698	1,222,966	39,134	43,423	68,640	76,604	107,774	120,027	12,253	11.37%	
C&I Total	12,795	443,572	880,993	1,324,565	42,708	47,144	76,346	84,671	119,054	131,815	12,761	10.72%	
Public Authorities	67	254	650	904	32	33	67	70	99	103	4	4.54%	
Small Mun Pumping	90	5,166	8,707	13,873	593	659	865	972	1,457	1,631	174	11.92%	
Municipal Pumping	0	0	0	0	0	0	1	1	1	1	0	6.78%	
Siren Service	157	5,420	9,357	14,777	624	692	933	1,043	1,557	1,735	178	11.45%	
Lighting	0	226	637	863	176	211	357	425	533	636	103	19.32%	
System Service	0	2,834	7,988	10,822	291	346	638	729	928	1,076	147	15.84%	
Energy	115	917	2,584	3,501	62	71	174	198	236	268	33	13.82%	
Metered Energy	0	726	2,023	2,748	118	137	250	282	368	419	51	13.75%	
Protective Lighting	115	4,702	13,232	17,934	647	765	1,419	1,634	2,066	2,399	333	16.13%	
Lighting Total	94,409	683,069	1,453,415	2,136,485	71,836	79,312	134,580	149,282	206,416	228,594	22,178	10.74%	
Total Retail					0	17	0	33	0	50		50	
Other Rev Increase													
Interdept. Increase													
Total Revenue	94,409	683,069	1,453,415	2,136,485	71,836	79,328	134,580	149,316	206,416	228,644	22,228	10.77%	
Interdept Present													
Retail + ID	94,409	683,069	1,453,415	2,136,485	71,836	79,328	134,580	149,316	206,416	228,644	22,228	10.77%	

REVENUE BY MAJOR RATE CLASS BY REVENUE TYPE

	Revenue (\$1,000s)							
	Total		Base		Fuel		Rider	
	Present	Final	Present	Final	Present	Final	Amount	Percent
Residential Regular	58,067	64,124	42,472	53,324	10,680	10,800	4,915	0
Res Space Heating	25,724	28,582	18,014	23,255	5,267	5,326	2,443	0
Total Residential	83,791	92,706	60,486	76,580	15,947	16,126	7,358	0
Small Comm. & Ind.	92,952	102,920	63,481	82,859	20,262	20,061	9,208	0
Large Comm. & Ind.	26,419	29,252	16,022	22,162	7,078	7,090	3,319	0
Total Comm. & Ind.	119,370	132,172	79,503	105,021	27,341	27,151	12,527	0
Street Lighting	1,697	1,980	1,325	1,737	229	244	143	0
Public Authorities	1,557	1,735	1,108	1,430	309	305	139	0
Total Retail	206,416	228,594	142,422	184,768	43,826	43,826	20,168	0
Other Revenues Incr.		50		50				
Interdept Rev Incr		0		0		0		0
Retail + Increases	206,416	228,644	142,422	184,817	43,826	43,826	20,168	0
Interdept Present Rev.	0	0	0	0	0	0	0	0
Retail + Interdept	206,416	228,644	142,422	184,817	43,826	43,826	20,168	0

	Revenue Increase							
	Total		Base		Fuel		Rider	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Residential Regular	6,057	10.43%	10,852	25.55%	120	1.12%	-4,915	-100.0%
Res Space Heating	2,858	11.11%	5,241	29.10%	59	1.12%	-2,443	-100.0%
Total Residential	8,915	10.64%	16,094	26.61%	179	1.12%	-7,358	-100.0%
Small Comm. & Ind.	9,969	10.72%	19,379	30.53%	-202	-0.99%	-9,208	-100.0%
Large Comm. & Ind.	2,833	10.73%	6,140	38.32%	12	0.17%	-3,319	-100.0%
Total Comm. & Ind.	12,802	10.72%	25,518	32.10%	-189	-0.69%	-12,527	-100.0%
Street Lighting	283	16.65%	412	31.06%	14	6.29%	-143	-100.0%
Public Authorities	178	11.45%	322	29.04%	-4	-1.30%	-139	-100.0%
Total Retail	22,178	10.74%	42,346	29.73%	0	0.00%	-20,168	-100.0%
Other Revenues Incr.	50		50		0		0	
Interdept Rev Incr	0		0		0		0	
Retail + Increases	22,228	10.77%	42,395	29.77%	0	0.00%	-20,168	-100.0%
Interdept Present Rev.	0		0		0		0	
Retail + Interdept	22,228	10.77%	42,395	29.77%	0	0.00%	-20,168	-100.0%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units		Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
		Smr	Wtr	P1S	P1W	P2S	P2W	R1S	R1W	R1A	R2S	R2W	R2A	IncrA	PctA
D01 Res OH ResReg Secondary															
Cust Chg	Bills	195,452	390,923	\$14.50	\$14.50	\$15.25	\$15.25	2,834	5,668	8,502	2,981	5,962	8,942	440	5.2%
Energy	MWH	134,784	259,529	\$73.39	\$57.59	\$92.94	\$76.94	9,892	14,946	24,838	12,527	19,968	32,495	7,657	30.8%
SvrSwitchAC	MWH	31,844	0	-\$14.20	\$0.00	-\$10.00	\$0.00	-452	0	-452	-311	0	-311	142	-31.3%
SvrSwitchWH	MWH	5,309	10,609	-\$1.89	-\$1.55	-\$2.00	-\$2.00	-10	-16	-27	-9	-20	-29	-2	9.3%
Fuel Cost	MWH	134,784	259,529	\$21.25	\$20.13	\$21.49	\$20.36	2,864	5,225	8,089	2,896	5,284	8,179	91	1.1%
Riders	MWH	134,784	259,529	\$9.44	\$9.44	\$0.00	\$0.00	1,272	2,450	3,722	0	0	0	-3,722	
Total:								16,400	28,273	44,673	18,083	31,194	49,277	4,604	10.3%
D01 Res OH ResSH Secondary															
Cust Chg	Bills	78,126	156,169	\$14.50	\$14.50	\$15.25	\$15.25	1,133	2,264	3,397	1,191	2,382	3,573	176	5.2%
Energy	MWH	42,177	169,845	\$73.39	\$50.64	\$92.94	\$69.94	3,095	8,601	11,696	3,920	11,879	15,799	4,103	35.1%
SvrSwitchAC	MWH	4,690	0	-\$14.20	\$0.00	-\$10.00	\$0.00	-67	0	-67	-43	0	-43	23	-35.2%
SvrSwitchWH	MWH	1,731	7,785	-\$1.89	-\$1.42	-\$2.00	-\$2.00	-3	-11	-14	-3	-7	-11	4	-25.8%
Fuel Cost	MWH	42,177	169,845	\$21.25	\$20.13	\$21.49	\$20.36	896	3,419	4,316	906	3,458	4,364	48	1.1%
Riders	MWH	42,177	169,845	\$9.44	\$9.44	\$0.00	\$0.00	398	1,603	2,001	0	0	0	-2,001	
Total:								5,453	15,877	21,330	5,971	17,711	23,682	2,352	11.0%
D03 Res UG ResReg Secondary															
Cust Chg	Bills	39,697	79,399	\$14.50	\$14.50	\$15.25	\$15.25	576	1,151	1,727	605	1,211	1,816	89	5.2%
Energy	MWH	42,000	80,871	\$73.39	\$57.59	\$92.94	\$76.94	3,082	4,657	7,740	3,903	6,222	10,126	2,386	30.8%
SvrSwitchAC	MWH	11,830	0	-\$14.20	\$0.00	-\$10.00	\$0.00	-168	0	-168	-105	0	-105	63	-37.3%
SvrSwitchWH	MWH	1,819	3,432	-\$1.89	-\$1.55	-\$2.00	-\$2.00	-3	-5	-9	-3	-6	-9	-1	6.2%
Fuel Cost	MWH	42,000	80,871	\$21.25	\$20.13	\$21.49	\$20.36	892	1,628	2,520	902	1,646	2,549	28	1.1%
Riders	MWH	42,000	80,871	\$9.44	\$9.44	\$0.00	\$0.00	396	763	1,160	0	0	0	-1,160	
Total:								4,775	8,195	12,970	5,303	9,073	14,376	1,406	10.8%
D03 Res UG ResSH Secondary															
Cust Chg	Bills	10,369	20,727	\$14.50	\$14.50	\$15.25	\$15.25	150	301	451	158	316	474	23	5.2%
Energy	MWH	9,208	37,082	\$73.39	\$50.64	\$92.94	\$69.94	676	1,878	2,554	856	2,594	3,449	896	35.1%
SvrSwitchAC	MWH	1,854	0	-\$14.20	\$0.00	-\$10.00	\$0.00	-26	0	-26	-19	0	-19	7	-28.3%
SvrSwitchWH	MWH	549	2,223	-\$1.89	-\$1.42	-\$2.00	-\$2.00	-1	-3	-4	-1	-2	-3	1	-22.8%
Fuel Cost	MWH	9,208	37,082	\$21.25	\$20.13	\$21.49	\$20.36	196	747	942	198	755	953	11	1.1%
Riders	MWH	9,208	37,082	\$9.44	\$9.44	\$0.00	\$0.00	87	350	437	0	0	0	-437	
Total:								1,081	3,272	4,353	1,192	3,662	4,854	501	11.5%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units		Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual
		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter		
D02 Res TOD OH ResReg Secondary													
Cust Chg	Bills	60	120	\$16.50	\$16.50	\$17.25	\$17.25	1	2	3	3	0	4.5%
Energy	On MWH	239	456	\$153.40	\$111.15	\$188.13	\$145.38	37	51	87	111	24	27.4%
Energy	Off MWH	226	432	\$25.59	\$25.59	\$36.00	\$36.00	6	11	17	24	7	40.7%
Fuel Cost	MWH	466	888	\$21.25	\$20.13	\$21.49	\$20.36	10	18	28	28	0	1.1%
Riders	MWH	466	888	\$9.44	\$9.44	\$0.00	\$0.00	4	8	13	0	0	-13
Total:								58	90	148	166	18	12.5%
D02 Res TOD OH ResSH Secondary													
Cust Chg	Bills	64	128	\$16.50	\$16.50	\$17.25	\$17.25	1	2	3	3	0	4.5%
Energy	On MWH	24	95	\$153.40	\$95.96	\$188.13	\$131.20	4	9	13	17	4	32.7%
Energy	Off MWH	53	212	\$25.59	\$25.59	\$36.00	\$36.00	1	5	7	10	3	40.7%
Fuel Cost	MWH	76	307	\$21.25	\$20.13	\$21.49	\$20.36	2	6	8	8	0	1.1%
Riders	MWH	76	307	\$9.44	\$9.44	\$0.00	\$0.00	1	3	4	0	0	-4
Total:								8	26	34	38	4	10.4%
D04 Res TOD UG ResReg Secondary													
Cust Chg	Bills	16	32	\$16.50	\$16.50	\$17.25	\$17.25	0.26	0.53	0.79	0.83	0.04	4.5%
Energy	On MWH	4	7	\$153.40	\$111.15	\$188.13	\$145.38	0.60	0.83	1.43	1.82	0.39	27.4%
Energy	Off MWH	10	20	\$25.59	\$25.59	\$36.00	\$36.00	0.26	0.51	0.77	0.71	1.08	40.7%
Fuel Cost	MWH	14	27	\$21.25	\$20.13	\$21.49	\$20.36	0.30	0.55	0.85	0.86	0.01	1.1%
Riders	MWH	14	27	\$9.44	\$9.44	\$0.00	\$0.00	0.13	0.26	0.39	0.00	0.00	-0.39
Total:								1.56	2.67	4.23	4.59	0.36	8.5%
D04 Res TOD UG ResSH Secondary													
Cust Chg	Bills	16	32	\$16.50	\$16.50	\$17.25	\$17.25	0.26	0.53	0.79	0.83	0.04	4.5%
Energy	On MWH	5	19	\$153.40	\$95.96	\$188.13	\$131.20	0.73	1.85	2.59	3.43	0.85	32.7%
Energy	Off MWH	10	40	\$25.59	\$25.59	\$36.00	\$36.00	0.26	1.03	1.29	1.45	1.81	40.7%
Fuel Cost	MWH	15	60	\$21.25	\$20.13	\$21.49	\$20.36	0.31	1.20	1.52	1.21	1.53	0.02
Riders	MWH	15	60	\$9.44	\$9.44	\$0.00	\$0.00	0.14	0.56	0.70	0.00	0.00	-0.70
Total:								1.71	5.18	6.88	7.61	0.72	10.5%
D05 EnergyCtrl N/D ResReg Secondary													
Cust Chg	Bills	1,176	2,347	\$4.80	\$4.80	\$5.25	\$5.25	6	11	17	18	2	9.4%
Energy	MWH	433	852	\$40.44	\$40.44	\$54.19	\$54.19	18	34	52	70	18	34.0%
Opt Energy	MWH	108	188	\$73.39	\$40.44	\$92.94	\$54.19	8	8	16	10	20	5
Fuel Cost	MWH	540	1,040	\$21.25	\$20.13	\$21.49	\$20.36	11	21	32	12	21	33
Riders	MWH	540	1,040	\$9.44	\$9.44	\$0.00	\$0.00	5	10	15	0	0	-15
Total:								48	84	132	141	9	7.1%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D10 Limited Off-Peak Sm C&I Secondary																
Cust Chg	Bills	91	182	273	\$4.80	\$4.80	\$5.25	\$5.25	0	1	1	0	1	0	9.4%	
Cust Chg	Bills	43	87	130	\$6.80	\$6.80	\$7.50	\$7.50	0	1	1	0	1	0	10.3%	
Cust Chg	Bills	0	0	0	\$31.00	\$31.00	\$33.00	\$33.00	0	0	0	0	0	0	0.0%	
Energy	On MWH	0	0	0	\$270.00	\$270.00	\$310.00	\$310.00	0	0	0	0	0	0	0.0%	
Energy	OffIS MWH	35	395	430	\$24.37	\$24.37	\$34.20	\$34.20	1	10	10	1	14	4	40.3%	
Energy	OffIS MWH	3	99	101	\$24.37	\$24.37	\$34.20	\$34.20	0	2	2	0	3	1	40.3%	
Energy	OffP MWH	0	0	0	\$23.27	\$23.27	\$33.20	\$33.20	0	0	0	0	0	0	0.0%	
Fuel Cost	MWH	38	494	532	\$21.99	\$20.84	\$21.56	\$20.43	1	10	11	1	10	0	-2.0%	
Riders	MWH	38	494	532	\$9.44	\$9.44	\$0.00	\$0.00	0	5	5	0	0	-5		
Total:									3	28	31	3	29	31	0	0.7%
D12 SmallGen Sm C&I Secondary																
Cust Chg	Bills	31,769	63,809	95,578	\$16.75	\$16.75	\$16.75	\$16.75	532	1,069	1,601	532	1,069	1,601	0	0.0%
Energy	MWH	27,042	68,899	95,941	\$75.12	\$59.32	\$90.08	\$74.08	2,031	4,087	6,118	2,436	5,104	7,540	1,421	23.2%
SvrSwitchAC	Tons	5,820	0	5,820	-\$5.00	\$0.00	-\$5.00	\$0.00	-29	0	-29	-29	0	-29	0	0.0%
Fuel Cost	MWH	27,042	68,899	95,941	\$21.99	\$20.84	\$21.56	\$20.43	595	1,436	2,030	583	1,408	1,991	-40	-2.0%
Riders	MWH	27,042	68,899	95,941	\$9.44	\$9.44	\$0.00	\$0.00	255	650	906	0	0	0	-906	
Total:									3,384	7,242	10,626	3,522	7,580	11,102	476	4.5%
D40 Small Mun Pumping Public Auth Secondary																
Cust Chg	Bills	268	536	804	\$16.75	\$16.75	\$16.75	\$16.75	4	9	13	4	9	13	0	0.0%
Energy	MWH	254	650	904	\$75.12	\$59.32	\$90.08	\$74.08	19	39	58	23	48	71	13	23.2%
Fuel Cost	MWH	254	650	904	\$21.99	\$20.84	\$21.56	\$20.43	6	14	19	5	13	19	0	-2.0%
Riders	MWH	254	650	904	\$9.44	\$9.44	\$0.00	\$0.00	2	6	9	0	0	0	-9	
Total:									32	67	99	33	70	103	4	4.5%
D14 SmallGen TOD Sm C&I Secondary																
Cust Chg	Bills	1,667	3,349	5,016	\$18.75	\$18.75	\$18.75	\$18.75	31	63	94	31	63	94	0	0.0%
Energy	On MWH	494	1,118	1,613	\$131.54	\$97.74	\$155.91	\$120.43	65	109	174	77	135	212	37	21.5%
Energy	Off MWH	386	1,013	1,399	\$25.59	\$25.59	\$36.00	\$36.00	10	26	36	14	36	50	15	40.7%
SvrSwitchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	880	2,131	3,012	\$21.99	\$20.84	\$21.56	\$20.43	19	44	64	19	44	63	-1	-2.0%
Riders	MWH	880	2,131	3,012	\$9.44	\$9.44	\$0.00	\$0.00	8	20	28	0	0	0	-28	
Total:									134	263	396	141	277	419	22	5.6%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D18 SGS TOD kWh Mtr Sm C&I Secondary																
Cust Chg	Bills	396	795	1,191	\$13.75	\$13.75	\$13.75	\$13.75	5	11	16	5	11	16	0	0.0%
Cust Chg	Bills	863	1,726	2,588	\$16.75	\$16.75	\$16.75	\$16.75	14	29	43	14	29	43	0	0.0%
LwWattSm	Bills	2,688	5,376	8,064	\$0.31	\$0.31	\$0.32	\$0.32	1	2	3	1	2	3	0	3.2%
Energy	MWH	193	388	581	\$62.67	\$50.84	\$77.97	\$65.55	12	20	32	15	25	41	9	27.2%
Fuel Cost	MWH	193	388	581	\$21.99	\$20.84	\$21.56	\$20.43	4	8	12	4	8	12	0	-2.0%
Riders	MWH	193	388	581	\$9.44	\$9.44	\$0.00	\$0.00	2	4	5	0	0	0	-5	
Total:									39	73	112	40	75	115	3	2.7%
D16 General Sm C&I Secondary																
Cust Chg	Bills	14,632	29,386	44,018	\$25.74	\$25.74	\$26.10	\$26.10	377	756	1,133	382	767	1,149	16	1.4%
Energy	MWH	200,211	408,015	608,225	\$31.60	\$31.60	\$46.48	\$46.48	6,327	12,893	19,220	9,306	18,965	28,272	9,052	47.1%
Energy Cr	MWH	10,283	24,832	35,114	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-108	-261	-369	-129	-310	-439	-70	19.0%
SvrSwitchAC	Tons	21,835	0	21,835	\$0.00	\$0.00	\$0.00	\$0.00	-109	0	-109	-109	0	-109	0	0.0%
Demand	KW	647,180	1,262,266	1,909,445	\$14.15	\$9.95	\$16.30	\$11.95	9,158	12,560	21,717	10,549	15,084	25,633	3,916	18.0%
Fuel Cost	MWH	200,211	408,015	608,225	\$20.93	\$20.93	\$20.67	\$20.67	4,191	8,540	12,731	4,138	8,433	12,570	-160	-1.3%
Riders	KW	647,180	1,262,266	1,909,445	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	200,211	408,015	608,225	\$9.44	\$9.44	\$0.00	\$0.00	1,890	3,852	5,741	0	0	0	-5,741	
Total:									21,724	38,340	60,064	24,137	42,939	67,076	7,012	11.7%
D16 General Lg C&I Secondary																
Cust Chg	Bills	20	40	60	\$25.74	\$25.74	\$26.10	\$26.10	1	1	2	1	1	2	0	1.4%
Energy	MWH	11,663	21,258	32,921	\$31.60	\$31.60	\$46.48	\$46.48	369	672	1,040	542	988	1,530	490	47.1%
Energy Cr	MWH	1,014	1,422	2,436	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-11	-15	-26	-13	-18	-30	-5	19.0%
SvrSwitchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0	0.0%
Demand	KW	30,907	55,980	86,887	\$14.15	\$9.95	\$16.30	\$11.95	437	557	994	504	669	1,173	178	17.9%
Fuel Cost	MWH	11,663	21,258	32,921	\$20.93	\$20.93	\$20.67	\$20.67	244	445	689	241	439	680	-9	-1.3%
Riders	KW	30,907	55,980	86,887	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	11,663	21,258	32,921	\$9.44	\$9.44	\$0.00	\$0.00	110	201	311	0	0	0	-311	
Total:									1,150	1,860	3,010	1,275	2,080	3,355	344	11.4%
D41 Municipal Pumping Public Auth Secondary																
Cust Chg	Bills	360	720	1,080	\$25.74	\$25.74	\$26.10	\$26.10	9	19	28	9	19	28	0	1.4%
Energy	MWH	5,166	8,707	13,873	\$31.60	\$31.60	\$46.48	\$46.48	163	275	438	240	405	645	206	47.1%
Energy Cr	MWH	453	717	1,170	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-5	-8	-12	-6	-9	-15	-2	19.0%
Demand	KW	18,930	31,583	50,513	\$14.15	\$9.95	\$16.30	\$11.95	268	314	582	309	377	686	104	17.8%
Fuel Cost	MWH	5,166	8,707	13,873	\$20.93	\$20.93	\$20.67	\$20.67	108	182	290	107	180	287	-4	-1.3%
Riders	KW	18,930	31,583	50,513	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	5,166	8,707	13,873	\$9.44	\$9.44	\$0.00	\$0.00	49	82	131	0	0	0	-131	
Total:									593	865	1,457	659	972	1,631	174	11.9%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D17 General TOD Sm C&I Secondary																
Cust Chg	Bills	787	1,579	2,366	\$28.74	\$28.74	\$29.10	\$29.10	23	45	68	23	46	69	1	1.3%
Energy	On	13,302	25,224	38,526	\$42.56	\$42.56	\$62.90	\$62.90	566	1,074	1,640	837	1,587	2,423	784	47.8%
Energy	Off	21,670	43,215	64,884	\$23.39	\$23.39	\$33.46	\$33.46	507	1,011	1,518	725	1,446	2,171	653	43.1%
Energy Cr	MWH	5,623	11,423	17,046	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-59	-120	-179	-70	-143	-213	-34	19.0%
SvrSwitchAC	Tons	997	0	997	-\$5.00	\$0.00	-\$5.00	\$0.00	-5	0	-5	-5	0	-5	0	0.0%
Demand	KW	77,820	148,492	226,312	\$14.15	\$9.95	\$16.30	\$11.95	1,101	1,477	2,579	1,268	1,774	3,043	484	18.0%
Off Dmd	KW	2,136	5,099	7,234	\$1.50	\$1.50	\$2.10	\$2.10	3	8	11	4	11	15	4	40.0%
Fuel Cost	On	13,302	25,224	38,526	\$26.30	\$26.30	\$25.00	\$25.00	350	663	1,013	333	631	963	-50	-4.9%
Fuel Cost	Off	21,670	43,215	64,884	\$16.35	\$16.35	\$17.23	\$17.23	354	706	1,061	373	744	1,118	57	5.4%
Riders	KW	79,956	153,591	233,546	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	0
Riders	MWH	34,972	68,438	103,410	\$9.44	\$9.44	\$0.00	\$0.00	330	646	976	0	0	0	-976	0
Total:									3,170	5,511	8,681	3,488	6,096	9,584	903	10.4%
D17 General TOD Lg C&I Secondary																
Cust Chg	Bills	12	24	36	\$28.74	\$28.74	\$29.10	\$29.10	0	1	1	0	1	1	0	1.3%
Energy	On	8,516	15,522	24,037	\$42.56	\$42.56	\$62.90	\$62.90	362	661	1,023	536	976	1,512	489	47.8%
Energy	Off	13,017	23,727	36,743	\$23.39	\$23.39	\$33.46	\$33.46	304	555	859	436	794	1,229	370	43.1%
Energy Cr	MWH	3,885	8,393	12,278	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-41	-88	-129	-49	-105	-153	-25	19.0%
SvrSwitchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0	0.0%
Demand	KW	43,468	74,437	117,905	\$14.15	\$9.95	\$16.30	\$11.95	615	741	1,356	709	890	1,598	242	17.9%
Off Dmd	KW	69	129	198	\$1.50	\$1.50	\$2.10	\$2.10	0	0	0	0	0	0	0	40.0%
Fuel Cost	On	8,516	15,522	24,037	\$26.30	\$26.30	\$25.00	\$25.00	224	408	632	213	388	601	-31	-4.9%
Fuel Cost	Off	13,017	23,727	36,743	\$16.35	\$16.35	\$17.23	\$17.23	213	388	601	224	409	633	32	5.4%
Riders	KW	43,538	74,566	118,104	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	0
Riders	MWH	21,532	39,248	60,781	\$9.44	\$9.44	\$0.00	\$0.00	203	370	574	0	0	0	-574	0
Total:									1,882	3,036	4,917	2,069	3,353	5,421	504	10.3%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D17 General TOD Sm C&I Primary																
Cust Chg	Bills	16	32	48	\$28.74	\$28.74	\$29.10	\$29.10	0	1	1	0	1	0	1.3%	
Energy	On MWH	818	1,289	2,107	\$41.46	\$41.46	\$61.90	\$61.90	34	53	87	51	130	43	49.3%	
Energy	Off MWH	1,320	2,137	3,457	\$22.29	\$22.29	\$32.46	\$32.46	29	48	77	43	112	35	45.6%	
Energy Cr	MWH	450	664	1,114	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-5	-7	-12	-6	-14	-2	19.0%	
SvrSwitchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0.0%	
Demand	KW	4,352	6,929	11,281	\$13.55	\$9.35	\$15.80	\$11.45	59	65	124	69	148	24	19.7%	
Off Dmd	KW	37	19	56	\$0.90	\$0.90	\$1.60	\$1.60	0	0	0	0	0	0	77.8%	
Fuel Cost	On MWH	818	1,289	2,107	\$26.30	\$26.30	\$25.00	\$25.00	22	34	55	20	53	-3	-4.9%	
Fuel Cost	Off MWH	1,320	2,137	3,457	\$16.35	\$16.35	\$17.23	\$17.23	22	35	57	23	60	3	5.4%	
Riders	KW	4,389	6,948	11,337	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	2,137	3,427	5,564	\$9.44	\$9.44	\$0.00	\$0.00	20	32	53	0	0	0	-53	
Total:									181	261	442	200	290	491	48	10.9%
D17 General TOD Lg C&I Primary																
Cust Chg	Bills	12	24	36	\$28.74	\$28.74	\$29.10	\$29.10	0	1	1	0	1	0	1.3%	
Energy	On MWH	4,864	8,865	13,728	\$41.46	\$41.46	\$61.90	\$61.90	202	368	569	301	549	281	49.3%	
Energy	Off MWH	9,181	16,735	25,916	\$22.29	\$22.29	\$32.46	\$32.46	205	373	578	298	543	264	45.6%	
Energy Cr	Off MWH	4,063	7,151	11,214	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-43	-75	-118	-51	-89	-22	19.0%	
SvrSwitchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0.0%	
Demand	KW	23,333	42,186	65,519	\$13.55	\$9.35	\$15.80	\$11.45	316	394	711	369	483	141	19.9%	
Off Dmd	KW	165	157	323	\$0.90	\$0.90	\$1.60	\$1.60	0	0	0	0	0	1	77.8%	
Fuel Cost	On MWH	4,864	8,865	13,728	\$26.30	\$26.30	\$25.00	\$25.00	128	233	361	122	222	343	-18	-4.9%
Fuel Cost	Off MWH	9,181	16,735	25,916	\$16.35	\$16.35	\$17.23	\$17.23	150	274	424	158	288	23	5.4%	
Riders	KW	23,499	42,343	65,841	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	14,045	25,599	39,644	\$9.44	\$9.44	\$0.00	\$0.00	133	242	374	0	0	0	-374	
Total:									1,091	1,809	2,900	1,197	1,996	3,194	294	10.1%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter		
D20 Peak-Ctrl Tier Sm C&I Secondary														
Cust Chg	Bills	176	353	529	\$56.50	\$56.50	\$58.00	\$58.00	10	20	30	31	1	2.7%
Energy	MWH	7,774	18,265	26,039	\$31.60	\$31.60	\$46.48	\$46.48	246	577	823	1,210	388	47.1%
Energy Cr	MWH	23	178	202	-\$10.50	-\$10.50	-\$12.50	-\$12.50	0	-2	-2	-3	0	19.0%
Demand	KW	7,990	16,878	24,869	\$14.15	\$9.95	\$16.30	\$11.95	113	168	281	332	51	18.1%
Control Dmd	2A	10,363	24,064	34,427	\$8.26	\$8.26	\$10.14	\$10.14	86	199	284	349	65	22.8%
Control Dmd	2B	13,304	24,455	37,759	\$7.57	\$7.57	\$9.38	\$9.38	101	185	286	354	68	23.9%
Control Dmd	2C	945	1,747	2,692	\$7.11	\$7.11	\$8.90	\$8.90	7	12	19	24	5	25.2%
Control Dmd	1A	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0.0%
Control Dmd	1B	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0.0%
Control Dmd	1C	474	834	1,308	\$6.34	\$6.34	\$8.08	\$8.08	3	5	8	11	2	27.4%
Fuel Cost	MWH	7,774	18,265	26,039	\$20.93	\$20.93	\$20.67	\$20.67	163	382	545	538	-7	-1.3%
Riders	KW	33,076	67,978	101,054	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0
Riders	MWH	7,774	18,265	26,039	\$9.44	\$9.44	\$0.00	\$0.00	73	172	246	0	-246	
Total:					801	1,720	2,520	904	1,942	2,846	326	12.9%		
D20 Peak-Ctrl Tier Sm C&I Primary														
Cust Chg	Bills	4	8	12	\$56.50	\$56.50	\$58.00	\$58.00	0	0	1	1	0	2.7%
Energy	MWH	822	1,626	2,448	\$30.50	\$30.50	\$45.48	\$45.48	25	50	75	111	37	49.1%
Energy Cr	MWH	0	0	0	-\$10.50	-\$10.50	-\$12.50	-\$12.50	0	0	0	0	0	0.0%
Demand	KW	1,368	2,694	4,061	\$13.55	\$9.35	\$15.80	\$11.45	19	25	44	52	9	20.0%
Control Dmd	2A	1,029	2,158	3,187	\$7.66	\$7.66	\$9.64	\$9.64	8	17	24	31	6	25.8%
Control Dmd	2B	0	0	0	\$6.97	\$6.97	\$8.88	\$8.88	0	0	0	0	0	0.0%
Control Dmd	2C	0	0	0	\$6.51	\$6.51	\$8.40	\$8.40	0	0	0	0	0	0.0%
Control Dmd	1A	0	0	0	\$7.09	\$7.09	\$9.03	\$9.03	0	0	0	0	0	0.0%
Control Dmd	1B	0	0	0	\$6.30	\$6.30	\$8.17	\$8.17	0	0	0	0	0	0.0%
Control Dmd	1C	0	0	0	\$5.74	\$5.74	\$7.58	\$7.58	0	0	0	0	0	0.0%
Fuel Cost	MWH	822	1,626	2,448	\$20.93	\$20.93	\$20.67	\$20.67	17	34	51	51	-1	-1.3%
Riders	KW	2,397	4,852	7,249	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0
Riders	MWH	822	1,626	2,448	\$9.44	\$9.44	\$0.00	\$0.00	8	15	23	0	-23	
Total:					77	141	218	86	160	246	28	12.8%		

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Annual				
D21 Peak-Ctrl Tier TOD Sm C&I Secondary																
Cust Chg	Bills	36	72	108	\$56.50	\$56.50	\$58.00	\$58.00	2	4	6	2	4	6	0	2.7%
Energy	On	1,030	1,862	2,892	\$42.56	\$42.56	\$62.90	\$62.90	44	79	123	65	117	182	59	47.8%
Energy	Off	1,352	2,676	4,027	\$23.39	\$23.39	\$33.46	\$33.46	32	63	94	45	90	135	41	43.1%
Energy Cr	MWH	148	215	362	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-2	-2	-4	-2	-3	-5	-1	19.0%
Demand	KW	3,507	6,265	9,772	\$14.15	\$9.95	\$16.30	\$11.95	50	62	112	57	75	132	20	17.9%
Off Dmd	KW	98	352	450	\$1.50	\$1.50	\$2.10	\$2.10	0	1	1	0	1	1	0	40.0%
Control Dmd	2A	2,604	3,818	6,422	\$8.26	\$8.26	\$10.14	\$10.14	22	32	53	26	39	65	12	22.8%
Control Dmd	2B	877	1,822	2,699	\$7.57	\$7.57	\$9.38	\$9.38	7	14	20	8	17	25	5	23.9%
Control Dmd	2C	461	798	1,259	\$7.11	\$7.11	\$8.90	\$8.90	3	6	9	4	7	11	2	25.2%
Control Dmd	1A	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	0	0	0	\$6.34	\$6.34	\$8.08	\$8.08	0	0	0	0	0	0	0	0.0%
Fuel Cost	On	1,030	1,862	2,892	\$26.30	\$26.30	\$25.00	\$25.00	27	49	76	26	47	72	-4	-4.9%
Fuel Cost	Off	1,352	2,676	4,027	\$16.35	\$16.35	\$17.23	\$17.23	22	44	66	23	46	69	4	5.4%
Riders	KW	7,548	13,054	20,602	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	0.0%
Riders	MWH	2,382	4,538	6,920	\$9.44	\$9.44	\$0.00	\$0.00	22	43	65	0	0	0	-65	0.0%
Total:									229	393	622	255	439	695	73	11.7%
D21 Peak-Ctrl Tier TOD Lg C&I Secondary																
Cust Chg	Bills	16	32	48	\$56.50	\$56.50	\$58.00	\$58.00	1	2	3	1	2	3	0	2.7%
Energy	On	13,915	25,363	39,278	\$42.56	\$42.56	\$62.90	\$62.90	592	1,079	1,672	875	1,595	2,471	799	47.8%
Energy	Off	26,743	48,745	75,488	\$23.39	\$23.39	\$33.46	\$33.46	626	1,140	1,766	895	1,631	2,526	760	43.1%
Energy Cr	MWH	11,319	20,779	32,098	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-119	-218	-337	-141	-260	-401	-64	19.0%
Demand	KW	34,243	65,572	99,814	\$14.15	\$9.95	\$16.30	\$11.95	485	652	1,137	558	784	1,342	205	18.0%
Off Dmd	KW	598	805	1,403	\$1.50	\$1.50	\$2.10	\$2.10	1	1	2	1	2	3	1	40.0%
Control Dmd	2A	0	0	0	\$8.26	\$8.26	\$10.14	\$10.14	0	0	0	0	0	0	0	0.0%
Control Dmd	2B	16,508	31,858	48,365	\$7.57	\$7.57	\$9.38	\$9.38	125	241	366	155	299	454	88	23.9%
Control Dmd	2C	20,284	32,618	52,901	\$7.11	\$7.11	\$8.90	\$8.90	144	232	376	181	290	471	95	25.2%
Control Dmd	1A	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	0	0	0	\$6.34	\$6.34	\$8.08	\$8.08	0	0	0	0	0	0	0	0.0%
Fuel Cost	On	13,915	25,363	39,278	\$26.30	\$26.30	\$25.00	\$25.00	366	667	1,033	348	634	982	-51	-4.9%
Fuel Cost	Off	26,743	48,745	75,488	\$16.35	\$16.35	\$17.23	\$17.23	437	797	1,234	461	840	1,300	66	5.4%
Riders	KW	71,631	130,852	202,484	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	0.0%
Riders	MWH	40,658	74,108	114,766	\$9.44	\$9.44	\$0.00	\$0.00	384	700	1,083	0	0	0	-1,083	9.8%
Total:									3,041	5,293	8,335	3,333	5,817	9,149	815	9.8%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units		Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual	
		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter			
D22 Energy-Control Rider Sm C&I Secondary														
Cust Chg	Bills	200	400	\$56.50	\$56.50	\$58.00	\$58.00	11	23	34	23	35	1	2.7%
Energy	On	1,520	2,579	\$42.56	\$42.56	\$62.90	\$62.90	65	110	174	162	258	83	47.8%
Energy	OnC	14,369	25,043	\$40.26	\$40.26	\$60.70	\$60.70	578	1,008	1,587	1,520	2,392	806	50.8%
Energy	Off	2,440	4,249	\$23.39	\$23.39	\$33.46	\$33.46	57	99	156	142	224	67	43.1%
Energy	OffC	20,412	37,247	\$22.34	\$22.34	\$32.46	\$32.46	456	832	1,288	1,209	1,872	584	45.3%
Energy Cr	MWH	5,025	10,284	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-53	-108	-161	-129	-191	-31	19.0%
Demand	KW	3,372	5,762	\$14.15	\$9.95	\$16.30	\$11.95	48	57	105	69	124	19	17.9%
Off Dmd	KW	883	2,048	\$1.50	\$1.50	\$2.10	\$2.10	1	3	4	4	6	2	40.0%
Control Dmd	1A	1,165	12,465	\$7.69	\$7.69	\$9.53	\$9.53	9	96	105	119	130	25	23.9%
Control Dmd	1B	24,341	44,434	\$6.90	\$6.90	\$8.67	\$8.67	168	307	475	385	596	122	25.7%
Control Dmd	1C	61,184	92,468	\$6.34	\$6.34	\$8.08	\$8.08	388	586	974	747	1,242	267	27.4%
AnnMinDmd	KW	416	833	\$1.00	\$1.00	\$1.24	\$1.24	0	1	1	1	2	0	24.0%
Fuel Cost	On	15,889	27,622	\$26.30	\$26.30	\$25.00	\$25.00	418	727	1,144	691	1,088	-57	-4.9%
Fuel Cost	Off	22,852	41,496	\$16.35	\$16.35	\$17.23	\$17.23	374	678	1,052	715	1,108	56	5.4%
Riders	KW	90,946	157,177	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	
Riders	MWH	38,741	69,119	\$9.44	\$9.44	\$0.00	\$0.00	366	652	1,018	0	0	-1,018	
Total:								2,886	5,071	7,958	5,659	8,885	927	11.6%
D22 Energy-Control Rider Lg C&I Secondary														
Cust Chg	Bills	0	0	\$56.50	\$56.50	\$58.00	\$58.00	0	0	0	0	0	0	0.0%
Energy	On	0	0	\$42.56	\$42.56	\$62.90	\$62.90	0	0	0	0	0	0	0.0%
Energy	OnC	1,834	3,343	\$40.26	\$40.26	\$60.70	\$60.70	74	135	208	203	314	106	50.8%
Energy	Off	0	0	\$23.39	\$23.39	\$33.46	\$33.46	0	0	0	0	0	0	0.0%
Energy	OffC	2,214	4,036	\$22.34	\$22.34	\$32.46	\$32.46	49	90	140	131	203	63	45.3%
Energy Cr	MWH	314	799	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-3	-8	-12	-10	-14	-2	19.0%
Demand	KW	0	0	\$14.15	\$9.95	\$16.30	\$11.95	0	0	0	0	0	0	0.0%
Off Dmd	KW	137	638	\$1.50	\$1.50	\$2.10	\$2.10	0	1	1	1	2	0	40.0%
Control Dmd	1A	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0.0%
Control Dmd	1B	1,497	2,874	\$6.90	\$6.90	\$8.67	\$8.67	10	20	30	25	38	8	25.7%
Control Dmd	1C	10,116	17,209	\$6.34	\$6.34	\$8.08	\$8.08	64	109	173	139	221	48	27.4%
AnnMinDmd	KW	3,321	6,642	\$1.00	\$1.00	\$1.24	\$1.24	3	7	10	8	12	2	24.0%
Fuel Cost	On	1,834	3,343	\$26.30	\$26.30	\$25.00	\$25.00	48	88	136	84	129	-7	-4.9%
Fuel Cost	Off	2,214	4,036	\$16.35	\$16.35	\$17.23	\$17.23	36	66	102	38	70	5	5.4%
Riders	KW	11,750	20,721	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	
Riders	MWH	4,048	7,379	\$9.44	\$9.44	\$0.00	\$0.00	38	70	108	0	0	-108	
Total:								321	576	897	651	1,013	116	12.9%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D22 Energy-Control Rider Sm C&I Primary																
Cust Chg	Bills	8	16	24	\$56.50	\$56.50	\$58.00	\$58.00	0	1	1	0	1	0	2.7%	
Energy	On MWH	0	0	0	\$41.46	\$41.46	\$61.90	\$61.90	0	0	0	0	0	0	0.0%	
Energy	OnC MWH	865	1,503	2,368	\$39.16	\$39.16	\$59.70	\$59.70	34	59	93	52	141	49	52.5%	
Energy	Off MWH	0	0	0	\$22.29	\$22.29	\$32.46	\$32.46	0	0	0	0	0	0	0.0%	
Energy	OffC MWH	1,276	2,361	3,637	\$21.24	\$21.24	\$31.46	\$31.46	27	50	77	40	114	37	48.1%	
Energy Cr	MWH	354	857	1,212	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-4	-9	-13	-4	-15	-2	19.0%	
Demand	KW	0	0	0	\$13.55	\$9.35	\$15.80	\$11.45	0	0	0	0	0	0	0.0%	
Off Dmd	KW	0	6	6	\$0.90	\$0.90	\$1.60	\$1.60	0	0	0	0	0	0	77.8%	
Control Dmd	KW	0	0	0	\$7.09	\$7.09	\$9.03	\$9.03	0	0	0	0	0	0	0.0%	
Control Dmd	1A KW	1,521	2,886	4,407	\$6.30	\$6.30	\$8.17	\$8.17	10	18	28	12	36	8	29.7%	
Control Dmd	1B KW	3,250	4,834	8,084	\$5.74	\$5.74	\$7.58	\$7.58	19	28	46	25	61	15	32.1%	
Control Dmd	1C KW	865	1,503	2,368	\$26.30	\$26.30	\$25.00	\$25.00	23	40	62	22	38	-3	-4.9%	
Fuel Cost	On MWH	1,276	2,361	3,637	\$16.35	\$16.35	\$17.23	\$17.23	21	39	59	22	41	3	5.4%	
Fuel Cost	Off MWH	4,771	7,726	12,496	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0.0%	
Riders	KW	2,141	3,864	6,006	\$9.44	\$9.44	\$0.00	\$0.00	20	36	57	0	0	0	-57	
Riders	MWH	16	32	48	\$56.50	\$56.50	\$58.00	\$58.00	1	2	3	1	2	0	2.7%	
Total:																
					150	261	411	411	150	261	411	169	293	461	50	12.2%
D22 Energy-Control Rider Lg C&I Primary																
Cust Chg	Bills	16	32	48	\$56.50	\$56.50	\$58.00	\$58.00	1	2	3	1	2	3	0	2.7%
Energy	On MWH	600	1,093	1,693	\$41.46	\$41.46	\$61.90	\$61.90	25	45	70	37	68	105	35	49.3%
Energy	OnC MWH	11,603	21,149	32,752	\$39.16	\$39.16	\$59.70	\$59.70	454	828	1,283	693	1,263	1,955	673	52.5%
Energy	Off MWH	1,096	1,999	3,095	\$22.29	\$22.29	\$32.46	\$32.46	24	45	69	36	65	100	31	45.6%
Energy	OffC MWH	17,825	32,489	50,314	\$21.24	\$21.24	\$31.46	\$31.46	379	690	1,069	561	1,022	1,583	514	48.1%
Energy Cr	MWH	6,179	12,339	18,518	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-65	-130	-194	-77	-154	-231	-37	19.0%
Demand	KW	2,481	3,245	5,726	\$13.55	\$9.35	\$15.80	\$11.45	34	30	64	39	37	76	12	19.4%
Off Dmd	KW	69	682	752	\$0.90	\$0.90	\$1.60	\$1.60	0	1	1	0	1	1	1	77.8%
Control Dmd	1A KW	19,065	33,234	52,299	\$7.09	\$7.09	\$9.03	\$9.03	135	236	371	172	300	472	101	27.4%
Control Dmd	1B KW	0	0	0	\$6.30	\$6.30	\$8.17	\$8.17	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	41,448	79,111	120,558	\$5.74	\$5.74	\$7.58	\$7.58	238	454	692	314	600	914	222	32.1%
Fuel Cost	On MWH	12,203	22,242	34,445	\$26.30	\$26.30	\$25.00	\$25.00	321	585	906	305	556	861	-45	-4.9%
Fuel Cost	Off MWH	18,921	34,488	53,409	\$16.35	\$16.35	\$17.23	\$17.23	309	564	873	326	594	920	47	5.4%
Riders	KW	63,064	116,272	179,335	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	0.0%
Riders	MWH	31,124	56,730	87,854	\$9.44	\$9.44	\$0.00	\$0.00	294	536	829	0	0	0	-829	
Total:																
					2,149	3,885	6,035	6,035	2,149	3,885	6,035	2,407	4,353	6,760	725	12.0%
D42 Siren Service Public Auth Secondary																
HP	HP	582	1,164	1,745	\$0.59	\$0.59	\$0.63	\$0.63	0	1	1	0	1	1	0	6.8%
Total:																
					0	1	1	1	0	1	1	0	1	1	0	6.8%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter				
D11 Protective Ltg ResReg Secondary																
A100S	Lts	1,364	2,728	4,092	\$6.70	\$6.70	\$8.48	\$8.48	9	18	27	12	23	35	7	26.6%
A175M	Lts	53	107	160	\$6.70	\$6.70	\$8.48	\$8.48	0	1	1	0	1	1	0	26.6%
A250S	Lts	259	519	778	\$11.63	\$11.63	\$14.41	\$14.41	3	6	9	4	7	11	2	23.9%
A400M	Lts	13	27	40	\$11.63	\$11.63	\$14.41	\$14.41	0	0	0	0	0	1	0	23.9%
A33LED	Lts	283	567	850	\$5.58	\$5.58	\$7.36	\$7.36	2	3	5	2	4	6	2	31.9%
A129LED	Lts	55	109	164	\$9.92	\$9.92	\$12.70	\$12.70	1	1	2	1	1	2	0	28.0%
D250S	Lts	11	22	34	\$12.89	\$12.89	\$15.90	\$15.90	0	0	0	0	0	1	0	23.4%
D400S	Lts	3	6	10	\$15.82	\$15.82	\$19.46	\$19.46	0	0	0	0	0	0	0	23.0%
D400M	Lts	0	0	0	\$14.80	\$14.80	\$18.25	\$18.25	0	0	0	0	0	0	0	0.0%
D129LED	Lts	4	8	12	\$12.62	\$12.62	\$15.63	\$15.63	0	0	0	0	0	0	0	23.9%
D192LED	Lts	0	0	0	\$14.72	\$14.72	\$18.36	\$18.36	0	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	94	180	274	\$15.09	\$15.09	\$16.04	\$16.04	1	3	4	2	3	4	0	6.3%
Riders	MWH	94	180	274	\$9.44	\$9.44	\$0.00	\$0.00	17	34	52	21	41	61	10	18.6%
Total:																
D11 Protective Ltg Sm C&I Secondary																
A100S	Lts	1,282	2,564	3,845	\$6.70	\$6.70	\$8.48	\$8.48	9	17	26	11	22	33	7	26.6%
A175M	Lts	811	1,621	2,432	\$6.70	\$6.70	\$8.48	\$8.48	5	11	16	7	14	21	4	26.6%
A250S	Lts	553	1,106	1,659	\$11.63	\$11.63	\$14.41	\$14.41	6	13	19	8	16	24	5	23.9%
A400M	Lts	274	549	823	\$11.63	\$11.63	\$14.41	\$14.41	3	6	10	4	8	12	2	23.9%
A33LED	Lts	418	837	1,255	\$5.58	\$5.58	\$7.36	\$7.36	2	5	7	3	6	9	2	31.9%
A129LED	Lts	165	331	496	\$9.92	\$9.92	\$12.70	\$12.70	2	3	5	2	4	6	1	28.0%
D250S	Lts	661	1,321	1,982	\$12.89	\$12.89	\$15.90	\$15.90	9	17	26	11	21	32	6	23.4%
D400S	Lts	2,485	4,971	7,456	\$15.82	\$15.82	\$19.46	\$19.46	39	79	118	48	97	145	27	23.0%
D400M	Lts	46	91	137	\$14.80	\$14.80	\$18.25	\$18.25	1	1	2	1	2	3	0	23.3%
D129LED	Lts	132	264	396	\$12.62	\$12.62	\$15.63	\$15.63	2	3	5	2	4	6	1	23.9%
D192LED	Lts	506	1,013	1,519	\$14.72	\$14.72	\$18.36	\$18.36	7	15	22	9	19	28	6	24.7%
Fuel Cost	MWH	632	1,843	2,474	\$15.09	\$15.09	\$16.04	\$16.04	10	28	37	10	30	40	2	6.3%
Riders	MWH	632	1,843	2,474	\$9.44	\$9.44	\$0.00	\$0.00	6	17	23	0	0	0	-23	
Total:																
		101	216	316	116	241	357	41	12.9%							

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units		Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual	
		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter			
D30 St Ltg System Lighting Secondary														
OH100S	Lts	592	1,184	\$10.80	\$10.80	\$13.52	\$13.52	6	13	19	8	24	5	25.2%
OH150S	Lts	64	128	\$11.89	\$11.89	\$14.61	\$14.61	1	2	2	1	3	1	22.9%
OH250S	Lts	24	48	\$15.02	\$15.02	\$17.71	\$17.71	0	1	1	0	1	0	17.9%
OH400S	Lts	0	0	\$18.01	\$18.01	\$20.67	\$20.67	0	0	0	0	0	0	0.0%
OH39LED	Lts	7,113	14,227	\$10.99	\$10.99	\$13.71	\$13.71	78	156	235	98	293	58	24.7%
OH65LED	Lts	3,684	7,368	\$11.98	\$11.98	\$14.70	\$14.70	44	88	132	54	162	30	22.7%
OH155LED	Lts	473	947	\$15.66	\$15.66	\$18.35	\$18.35	7	15	22	9	26	4	17.2%
OH245LED	Lts	12	24	\$19.22	\$19.22	\$21.88	\$21.88	0	0	1	0	1	0	13.8%
UG100S	Lts	882	1,764	\$20.83	\$20.83	\$23.55	\$23.55	18	37	55	21	62	7	13.1%
UG150S	Lts	64	128	\$21.98	\$21.98	\$24.70	\$24.70	1	3	4	2	5	1	12.4%
UG39LED	Lts	176	351	\$21.02	\$21.02	\$23.74	\$23.74	4	7	11	4	13	1	12.9%
UG65LED	Lts	440	879	\$22.07	\$22.07	\$24.79	\$24.79	10	19	29	11	33	4	12.3%
Dec100S	Lts	0	0	\$33.26	\$33.26	\$35.96	\$35.96	0	0	0	0	0	0	0.0%
Dec150S	Lts	0	0	\$34.40	\$34.40	\$37.08	\$37.08	0	0	0	0	0	0	0.0%
Dec250S	Lts	0	0	\$36.94	\$36.94	\$39.58	\$39.58	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	226	637	\$15.09	\$15.09	\$16.04	\$16.04	3	10	13	4	14	1	6.3%
Riders	MWH	226	637	\$9.44	\$9.44	\$0.00	\$0.00	2	6	8	0	0	-8	
Total:								176	357	533	211	636	103	19.3%
D31 St Ltg Purchased Lighting Secondary														
70S	Lts	458	916	\$2.93	\$2.93	\$3.82	\$3.82	1	3	4	2	5	1	30.4%
100S	Lts	12,704	25,408	\$3.44	\$3.44	\$4.55	\$4.55	44	87	131	58	173	42	32.3%
150S	Lts	8,028	16,056	\$4.21	\$4.21	\$5.64	\$5.64	34	68	101	45	136	34	34.0%
200S	Lts	323	646	\$5.14	\$5.14	\$6.98	\$6.98	2	3	5	2	7	2	35.8%
250S	Lts	11,023	22,047	\$6.13	\$6.13	\$8.40	\$8.40	68	135	203	93	278	75	37.0%
310S	Lts	489	978	\$7.41	\$7.41	\$10.23	\$10.23	4	7	11	5	15	4	38.1%
400S	Lts	3,821	7,643	\$8.60	\$8.60	\$11.96	\$11.96	33	66	99	46	137	39	39.1%
1000S	Lts	1,160	2,320	\$17.76	\$17.76	\$25.12	\$25.12	21	41	62	29	87	26	41.4%
175M	Lts	2,728	5,456	\$4.66	\$4.66	\$6.29	\$6.29	13	25	38	17	34	13	35.0%
250M	Lts	296	592	\$5.82	\$5.82	\$7.97	\$7.97	2	3	5	2	7	2	36.9%
400M	Lts	56	112	\$8.29	\$8.29	\$11.51	\$11.51	0	1	1	1	2	1	38.8%
G4 70S	Lts	0	0	\$1.52	\$1.52	\$2.17	\$2.17	0	0	0	0	0	0	0.0%
G4 400S	Lts	0	0	\$7.44	\$7.44	\$6.91	\$6.91	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	2,823	7,959	\$15.09	\$15.09	\$16.04	\$16.04	43	120	163	45	128	10	6.3%
Riders	MWH	2,823	7,959	\$9.44	\$9.44	\$0.00	\$0.00	27	75	102	0	0	-102	
Total:								289	635	925	345	1,072	147	15.9%

Sales and Revenue by Rate Schedule and Component - Billing Units, Rates (Energy in Mills/kWh), and Revenues (\$1,000s)

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues		Final Revenues		Increase Annual	Pct Inc. Annual		
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter			Annual	
D33 St Ltg Energy Mtrd Lighting Secondary																
Cust Chg	Bills	460	920	1,380	\$5.25	\$5.25	\$5.25	\$5.25	2	5	7	2	5	7	0	0.0%
Energy	MWH	917	2,584	3,501	\$40.78	\$40.78	\$58.58	\$58.58	37	105	143	54	151	205	62	43.6%
Fuel Cost	MWH	917	2,584	3,501	\$15.09	\$15.09	\$16.04	\$16.04	14	39	53	15	41	56	3	6.3%
Riders	MWH	917	2,584	3,501	\$9.44	\$9.44	\$0.00	\$0.00	9	24	33	0	0	0	-33	
Total:					62	174	236	236	71	198	268	33	268	33	13.8%	
D32 St Ltg Purchased-CL Lighting Secondary																
1000L	Lts	232	464	696	\$2.74	\$2.74	\$2.81	\$2.81	1	1	2	1	1	2	0	2.6%
4000L	Lts	60	120	180	\$5.12	\$5.12	\$5.22	\$5.22	0	1	1	0	1	1	0	2.0%
Fuel Cost	MWH	10	29	39	\$15.09	\$15.09	\$16.04	\$16.04	0	0	1	0	0	1	0	6.3%
Riders	MWH	10	29	39	\$9.44	\$9.44	\$0.00	\$0.00	0	0	0	0	0	0	0	
Total:					1	3	4	4	1	2	4	1	2	4	0	-7.1%
Total Retail:					71,836	134,580	206,416	206,416	79,312	149,282	228,594	22,178	228,594	22,178	10.7%	

Fuel Cost - Retail	Present			Proposed		
	Summer	Winter	Annual	Summer	Winter	Annual
Retail	2.127 ¢	2.016 ¢	2.051 ¢	2.127 ¢	2.016 ¢	2.051 ¢
Residential	2.120 ¢	2.010 ¢	2.045 ¢	2.147 ¢	2.035 ¢	2.070 ¢
C&I - Non-Demand	2.195 ¢	2.080 ¢	2.116 ¢	2.154 ¢	2.042 ¢	2.077 ¢
C&I-Dmd - Non-TOD			2.089 ¢			2.065 ¢
C&I-Dmd -TOD On-Peak			2.625 ¢			2.498 ¢
C&I-Dmd -TOD Off-Peak			1.631 ¢			1.721 ¢
Lighting			1.506 ¢			1.602 ¢

		Present	Proposed	Present	Proposed
Residential (D01, D03)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$14.50	\$15.25	\$14.50	\$15.25
	Overhead - Electric Sp Ht	\$14.50	\$15.25	\$14.50	\$15.25
	Underground	\$14.50	\$15.25	\$14.50	\$15.25
	Underground - Electric Sp Ht	\$14.50	\$15.25	\$14.50	\$15.25
Energy / kWh	Summer	7.339 ¢	9.294 ¢	9.459 ¢	11.441 ¢
	Winter	5.759 ¢	7.694 ¢	7.769 ¢	9.729 ¢
	Winter - Electric Space Heat	5.064 ¢	6.994 ¢	7.074 ¢	9.029 ¢

		Present	Proposed	Present	Proposed
Residential Time of Day (D02, D04)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$16.50	\$17.25	\$16.50	\$17.25
	Overhead - Electric Sp Ht	\$16.50	\$17.25	\$16.50	\$17.25
	Underground	\$16.50	\$17.25	\$16.50	\$17.25
	Underground - Electric Sp Ht	\$16.50	\$17.25	\$16.50	\$17.25
Energy / kWh	On-Peak Summer	15.340 ¢	18.813 ¢	17.460 ¢	20.960 ¢
	On-Peak Winter	11.115 ¢	14.538 ¢	13.125 ¢	16.573 ¢
	On-Peak Winter -Elec. Sp Ht	9.596 ¢	13.120 ¢	11.606 ¢	15.155 ¢
	Off-Peak Summer	2.559 ¢	3.600 ¢	4.679 ¢	5.747 ¢
	Off-Peak Winter	2.559 ¢	3.600 ¢	4.569 ¢	5.635 ¢

		Present	Proposed	Present	Proposed
Energy-Controlled Non-Demand (D05)		Base Rates		Rates + Fuel	
Customer / Mo.		\$4.80	\$5.25	\$4.80	\$5.25
Energy / kWh	Standard Resid.	4.0440 ¢	5.4190 ¢	6.089 ¢	7.489 ¢
	Standard Comm.	4.0440 ¢	5.4190 ¢	6.160 ¢	7.496 ¢
	Optional Resid. - Summer	7.339 ¢	9.294 ¢	9.459 ¢	11.441 ¢
	Optional Comm.- Summer	7.512 ¢	9.008 ¢	9.707 ¢	11.162 ¢

		Present	Proposed	Present	Proposed
Limited Off-Peak (D10)		Base Rates		Rates + Fuel	
Customer / Mo.	Residential	\$4.80	\$5.25	\$4.80	\$5.25
	Commercial Sec. 1 Phase	\$4.80	\$5.25	\$4.80	\$5.25
	Commercial Sec. 3 Phase	\$6.80	\$7.50	\$6.80	\$7.50
	Commercial Primary	\$31.00	\$33.00	\$31.00	\$33.00
Energy / kWh	Residential On-Peak	27.000 ¢	31.000 ¢	29.045 ¢	33.070 ¢
	Commercial On-Peak	27.000 ¢	31.000 ¢	29.116 ¢	33.077 ¢
	Residential Secondary	2.437 ¢	3.420 ¢	4.482 ¢	5.490 ¢
	Commercial Secondary	2.437 ¢	3.420 ¢	4.553 ¢	5.497 ¢
	Commercial Primary	2.327 ¢	3.320 ¢	4.443 ¢	5.397 ¢

		Present	Proposed	Present	Proposed
Small General (D12, D15)		Base Rates		Rates + Fuel	
Customer / Mo.	Metered (D12)	\$16.75	\$16.75	\$16.75	\$16.75
Energy /kWh	Summer	7.512 ¢	9.008 ¢	9.707 ¢	11.162 ¢
	Winter	5.932 ¢	7.408 ¢	8.012 ¢	9.450 ¢

		Present	Proposed	Present	Proposed
Small Municipal Pumping (D40)		Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$16.75	\$16.75	\$16.75	\$16.75
Energy /kWh	Summer	7.512 ¢	9.008 ¢	9.707 ¢	11.162 ¢
	Winter	5.932 ¢	7.408 ¢	8.012 ¢	9.450 ¢

		Present	Proposed	Present	Proposed
Small General TOD (D14, D18, D19, D34)		Base Rates		Rates + Fuel	
Customer / Mo.	TOD Metered (D14)	\$18.75	\$18.75	\$18.75	\$18.75
	KWH Metered (D19)	\$16.75	\$16.75	\$16.75	\$16.75
	Unmetered (D18)	\$13.75	\$13.75	\$13.75	\$13.75
	Low Wattage <100W (D34)	\$0.31	\$0.32	\$0.31	\$0.32
	Low Wattage <400W (D34)	\$1.30	\$1.35	\$1.30	\$1.35
Energy / kWh	On-Peak Summer	13.154 ¢	15.591 ¢	15.349 ¢	17.745 ¢
	On-Peak Winter	9.774 ¢	12.043 ¢	11.854 ¢	14.085 ¢
	Off-Peak Summer	2.559 ¢	3.600 ¢	4.754 ¢	5.754 ¢
	Off-Peak Winter	2.559 ¢	3.600 ¢	4.639 ¢	5.642 ¢
	Constant Use - Summer	6.267 ¢	7.797 ¢	8.462 ¢	9.951 ¢
	Constant Use - Winter	5.084 ¢	6.555 ¢	7.164 ¢	8.597 ¢

		Present	Proposed	Present	Proposed
Demand-Metered Voltage Discounts		Base Rates		Rates + Fuel	
Voltage Discount / kWh	Primary	0.110 ¢	0.100 ¢	0.110 ¢	0.100 ¢
	Transmission Transformed	0.230 ¢	0.190 ¢	0.230 ¢	0.190 ¢
	Transmission	0.260 ¢	0.250 ¢	0.260 ¢	0.250 ¢
Voltage Discount / kW	Primary	\$0.60	\$0.50	\$0.60	\$0.50
	Transmission Transformed	\$1.10	\$1.40	\$1.10	\$1.40
	Transmission	\$1.50	\$2.10	\$1.50	\$2.10

General (D16)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.74	\$26.10	\$25.74	\$26.10
Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Energy / kWh		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
Energy Credit / kWh		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

Municipal Pumping (D41)		Base Rates		Rates + Fuel	
Customer / Mo.		\$25.74	\$26.10	\$25.74	\$26.10
Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Energy / kWh		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
Energy Credit / kWh		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

General Time of Day (D17)		Base Rates		Rates + Fuel	
Customer / Mo.		\$28.74	\$29.10	\$28.74	\$29.10
On-Peak Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Off-Peak Demand / kW		\$1.50	\$2.10	\$1.50	\$2.10
Energy / kWh	On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
Energy Credit / kWh		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

Peak-Controlled (D20)		Base Rates		Rates + Fuel	
Customer / Mo.		\$56.50	\$58.00	\$56.50	\$58.00
Firm Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Control Demand / kW	Tier 2 - Level A	\$8.26	\$10.14	\$8.26	\$10.14
	Tier 2 - Level B	\$7.57	\$9.38	\$7.57	\$9.38
	Tier 2 - Level C	\$7.11	\$8.90	\$7.11	\$8.90
	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
Energy / kWh		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
Energy Credit / kWh		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

		Present	Proposed	Present	Proposed
Peak-Controlled TOD (D21)		Base Rates		Rates + Fuel	
Customer / Mo.		\$56.50	\$58.00	\$56.50	\$58.00
On-Peak Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Control Demand / kW	Tier 2 - Level A	\$8.26	\$10.14	\$8.26	\$10.14
	Tier 2 - Level B	\$7.57	\$9.38	\$7.57	\$9.38
	Tier 2 - Level C	\$7.11	\$8.90	\$7.11	\$8.90
	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
Off-Peak Demand / kW		\$1.50	\$2.10	\$1.50	\$2.10
Energy / kWh	On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
Energy Credit / kWh		-1.0500 ¢	-1.2500 ¢	-1.0500 ¢	-1.2500 ¢

		Present	Proposed	Present	Proposed
Tier 1 Energy-Controlled Rider (D22)		Base Rates		Rates + Fuel	
Customer / Mo.		\$56.50	\$58.00	\$56.50	\$58.00
On-Peak Demand / kW	Summer	\$14.15	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
Control Demand / kW	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
Off-Peak Demand / kW		\$1.50	\$2.10	\$1.50	\$2.10
Energy / kWh	Firm On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Firm Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
	Controllable On-Peak	4.026 ¢	6.070 ¢	6.651 ¢	8.568 ¢
	Controllable Off-Peak	2.234 ¢	3.246 ¢	3.865 ¢	4.967 ¢
	Control Period Energy	10.600 ¢	10.000 ¢	13.225 ¢	12.498 ¢
Energy Credit / kWh		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

		Present	Proposed	Present	Proposed
Fire & Civil Defense Siren (D42)		Base Rates		Rates + Fuel	
HP Capacity / Mo.		\$0.59	\$0.63	\$0.59	\$0.63
Min Charge / Mo.		\$2.70	\$2.90	\$2.70	\$2.90

		Present	Proposed	Present	Proposed
Automatic Protective Lighting (D11)		Base Rates		Rates + Fuel	
Area	100 W HPSodium	\$6.70	\$8.48	\$7.31	\$9.13
	175 W Mercury	\$6.70	\$8.48	\$7.76	\$9.61
	250 W HPSodium	\$11.63	\$14.41	\$13.24	\$16.12
	400 W Mercury	\$11.63	\$14.41	\$14.04	\$16.97
	30-45 W LED	\$5.58	\$7.36	\$5.75	\$7.54
	110-165 W LED	\$9.92	\$12.70	\$10.60	\$13.42
Directional	250 W HPSodium	\$12.89	\$15.90	\$14.50	\$17.61
	400 W HPSodium	\$15.82	\$19.46	\$18.34	\$22.14
	400 W Mercury	\$14.80	\$18.25	\$17.21	\$20.81
	110-165 W LED	\$12.62	\$15.63	\$13.30	\$16.35
	170-250 W LED	\$14.72	\$18.36	\$15.72	\$19.43

		Present	Proposed	Present	Proposed
Street Lighting System (D30)		Base Rates		Rates + Fuel	
Overhead	100 W HPSodium	\$10.80	\$13.52	\$11.41	\$14.17
	150 W HPSodium	\$11.89	\$14.61	\$12.78	\$15.56
	250 W HPSodium	\$15.02	\$17.71	\$16.63	\$19.42
	400 W HPSodium	\$18.01	\$20.67	\$20.53	\$23.35
	30-40 W LED	\$10.99	\$13.71	\$11.19	\$13.93
	50-75 W LED	\$11.98	\$14.70	\$12.32	\$15.06
	110-165 W LED	\$15.66	\$18.35	\$16.47	\$19.21
	200-250 W LED	\$19.22	\$21.88	\$20.50	\$23.24
Underground	100 W HPSodium	\$20.83	\$23.55	\$21.44	\$24.20
	150 W HPSodium	\$21.98	\$24.70	\$22.87	\$25.65
	30-40 W LED	\$21.02	\$23.74	\$21.22	\$23.96
	50-75 W LED	\$22.07	\$24.79	\$22.41	\$25.15
Decorative UG	100 W HPSodium	\$33.26	\$35.96	\$33.87	\$36.61
	150 W HPSodium	\$34.40	\$37.08	\$35.29	\$38.03
	250 W HPSodium	\$36.94	\$39.58	\$38.55	\$41.29

		Present	Proposed	Present	Proposed
Street Lighting Purchased (Closed) (D31)		Base Rates		Rates + Fuel	
Group 1	<30 W LED	\$1.01	\$1.32	\$1.14	\$1.46
	30-45 W LED	\$1.21	\$1.60	\$1.41	\$1.82
	50-75 W LED	\$1.57	\$2.10	\$1.91	\$2.46
	110-165 W LED	\$2.85	\$3.87	\$3.66	\$4.73
	200-250 W LED	\$4.12	\$5.65	\$5.40	\$7.01
	175 W Mercury	\$4.66	\$6.29	\$5.72	\$7.42
	250 W Mercury	\$5.82	\$7.97	\$7.31	\$9.55
	400 W Mercury	\$8.29	\$11.51	\$10.70	\$14.07
	70 W HPSodium	\$2.93	\$3.82	\$3.35	\$4.27
	100 W HPSodium	\$3.44	\$4.55	\$4.05	\$5.20
	150 W HPSodium	\$4.21	\$5.64	\$5.10	\$6.59
	200 W HPSodium	\$5.14	\$6.98	\$6.38	\$8.30
	250 W HPSodium	\$6.13	\$8.40	\$7.74	\$10.11
	310 W HPSodium	\$7.41	\$10.23	\$9.49	\$12.44
	400 W HPSodium	\$8.60	\$11.96	\$11.12	\$14.64
	1000 W HPSodium	\$17.76	\$25.12	\$23.67	\$31.40

Street Lighting Energy - Metered (D33)		Base Rates		Rates + Fuel	
Customer / Mo.		\$5.25	\$5.25	\$5.25	\$5.25
Energy Charge per kWh		4.078 ¢	5.858 ¢	5.584 ¢	7.460 ¢

Street Lighting Purchased (Closed) (D32)		Base Rates		Rates + Fuel	
	1000 L Incandescent	\$2.74	\$2.81	\$3.22	\$3.32
	4000 L Incandescent	\$5.12	\$5.22	\$6.66	\$6.86

		Present	Proposed
Standby Service Rider			
Customer / Mo.		\$28.74	\$29.10
Demand / Contract kW	Unscheduled Maintenance	\$2.68	\$3.14
	Scheduled Maintenance	\$2.58	\$3.04
	Non-Firm	\$1.50	\$1.60

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Overhead) - D01

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$36.28	\$39.57	\$3.29	9.07%
	300	\$40.64	\$44.44	\$3.80	9.35%
	400	\$49.35	\$54.17	\$4.81	9.76%
	500	\$58.06	\$63.89	\$5.83	10.04%
	600	\$66.78	\$73.62	\$6.85	10.25%
	750	\$79.85	\$88.22	\$8.37	10.48%
	850	\$88.56	\$97.95	\$9.39	10.60%
	1000	\$101.63	\$112.54	\$10.91	10.74%
	1500	\$145.19	\$161.18	\$15.99	11.02%
	2000	\$188.75	\$209.83	\$21.07	11.17%
	3000	\$275.88	\$307.12	\$31.24	11.32%
4000	\$363.01	\$404.41	\$41.40	11.40%	
5000	\$450.14	\$501.70	\$51.56	11.45%	
SUMMER	250	\$40.51	\$43.85	\$3.34	8.26%
	300	\$45.71	\$49.57	\$3.86	8.45%
	400	\$56.11	\$61.01	\$4.90	8.73%
	500	\$66.52	\$72.45	\$5.94	8.93%
	600	\$76.92	\$83.90	\$6.98	9.07%
	750	\$92.53	\$101.06	\$8.53	9.22%
	850	\$102.93	\$112.50	\$9.57	9.30%
	1000	\$118.53	\$129.66	\$11.13	9.39%
	1500	\$170.55	\$186.86	\$16.31	9.57%
	2000	\$222.57	\$244.07	\$21.50	9.66%
	3000	\$326.60	\$358.48	\$31.88	9.76%
4000	\$430.64	\$472.89	\$42.25	9.81%	
5000	\$534.67	\$587.30	\$52.63	9.84%	
AVERAGE MONTHLY	250	\$37.69	\$41.00	\$3.31	8.78%
	300	\$42.33	\$46.15	\$3.82	9.02%
	400	\$51.61	\$56.45	\$4.84	9.39%
	500	\$60.88	\$66.75	\$5.87	9.64%
	600	\$70.16	\$77.05	\$6.89	9.82%
	750	\$84.07	\$92.50	\$8.43	10.02%
	850	\$93.35	\$102.80	\$9.45	10.12%
	1000	\$107.26	\$118.25	\$10.98	10.24%
	1500	\$153.64	\$169.74	\$16.10	10.48%
	2000	\$200.03	\$221.24	\$21.22	10.61%
	3000	\$292.79	\$324.24	\$31.45	10.74%
4000	\$385.55	\$427.24	\$41.68	10.81%	
5000	\$478.31	\$530.23	\$51.92	10.85%	

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - D01

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$34.54	\$37.82	\$3.28	9.49%
	300	\$38.55	\$42.34	\$3.78	9.81%
	400	\$46.57	\$51.37	\$4.79	10.30%
	500	\$54.59	\$60.39	\$5.81	10.64%
	600	\$62.61	\$69.42	\$6.82	10.89%
	750	\$74.63	\$82.97	\$8.33	11.17%
	850	\$82.65	\$92.00	\$9.35	11.31%
	1000	\$94.68	\$105.54	\$10.86	11.47%
	1500	\$134.77	\$150.68	\$15.92	11.81%
	2000	\$174.85	\$195.83	\$20.97	12.00%
	3000	\$255.03	\$286.12	\$31.09	12.19%
4000	\$335.21	\$376.41	\$41.20	12.29%	
5000	\$415.39	\$466.70	\$51.31	12.35%	
SUMMER	250	\$40.51	\$43.85	\$3.34	8.26%
	300	\$45.71	\$49.57	\$3.86	8.45%
	400	\$56.11	\$61.01	\$4.90	8.73%
	500	\$66.52	\$72.45	\$5.94	8.93%
	600	\$76.92	\$83.90	\$6.98	9.07%
	750	\$92.53	\$101.06	\$8.53	9.22%
	850	\$102.93	\$112.50	\$9.57	9.30%
	1000	\$118.53	\$129.66	\$11.13	9.39%
	1500	\$170.55	\$186.86	\$16.31	9.57%
	2000	\$222.57	\$244.07	\$21.50	9.66%
	3000	\$326.60	\$358.48	\$31.88	9.76%
4000	\$430.64	\$472.89	\$42.25	9.81%	
5000	\$534.67	\$587.30	\$52.63	9.84%	
AVERAGE MONTHLY	250	\$36.53	\$39.83	\$3.30	9.03%
	300	\$40.94	\$44.75	\$3.81	9.31%
	400	\$49.75	\$54.58	\$4.83	9.71%
	500	\$58.56	\$64.41	\$5.85	9.99%
	600	\$67.38	\$74.25	\$6.87	10.20%
	750	\$80.60	\$89.00	\$8.40	10.42%
	850	\$89.41	\$98.83	\$9.42	10.54%
	1000	\$102.63	\$113.58	\$10.95	10.67%
	1500	\$146.69	\$162.74	\$16.05	10.94%
	2000	\$190.76	\$211.91	\$21.15	11.09%
	3000	\$278.89	\$310.24	\$31.35	11.24%
4000	\$367.02	\$408.57	\$41.55	11.32%	
5000	\$455.15	\$506.90	\$51.75	11.37%	

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL SERVICE (Underground) - D03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$36.28	\$39.57	\$3.29	9.07%
	300	\$40.64	\$44.44	\$3.80	9.35%
	400	\$49.35	\$54.17	\$4.81	9.76%
	500	\$58.06	\$63.89	\$5.83	10.04%
	600	\$66.78	\$73.62	\$6.85	10.25%
	750	\$79.85	\$88.22	\$8.37	10.48%
	850	\$88.56	\$97.95	\$9.39	10.60%
	1000	\$101.63	\$112.54	\$10.91	10.74%
	1500	\$145.19	\$161.18	\$15.99	11.02%
	2000	\$188.75	\$209.83	\$21.07	11.17%
	3000	\$275.88	\$307.12	\$31.24	11.32%
4000	\$363.01	\$404.41	\$41.40	11.40%	
5000	\$450.14	\$501.70	\$51.56	11.45%	
SUMMER	250	\$40.51	\$43.85	\$3.34	8.26%
	300	\$45.71	\$49.57	\$3.86	8.45%
	400	\$56.11	\$61.01	\$4.90	8.73%
	500	\$66.52	\$72.45	\$5.94	8.93%
	600	\$76.92	\$83.90	\$6.98	9.07%
	750	\$92.53	\$101.06	\$8.53	9.22%
	850	\$102.93	\$112.50	\$9.57	9.30%
	1000	\$118.53	\$129.66	\$11.13	9.39%
	1500	\$170.55	\$186.86	\$16.31	9.57%
	2000	\$222.57	\$244.07	\$21.50	9.66%
	3000	\$326.60	\$358.48	\$31.88	9.76%
4000	\$430.64	\$472.89	\$42.25	9.81%	
5000	\$534.67	\$587.30	\$52.63	9.84%	
AVERAGE MONTHLY	250	\$37.69	\$41.00	\$3.31	8.78%
	300	\$42.33	\$46.15	\$3.82	9.02%
	400	\$51.61	\$56.45	\$4.84	9.39%
	500	\$60.88	\$66.75	\$5.87	9.64%
	600	\$70.16	\$77.05	\$6.89	9.82%
	750	\$84.07	\$92.50	\$8.43	10.02%
	850	\$93.35	\$102.80	\$9.45	10.12%
	1000	\$107.26	\$118.25	\$10.98	10.24%
	1500	\$153.64	\$169.74	\$16.10	10.48%
	2000	\$200.03	\$221.24	\$21.22	10.61%
	3000	\$292.79	\$324.24	\$31.45	10.74%
4000	\$385.55	\$427.24	\$41.68	10.81%	
5000	\$478.31	\$530.23	\$51.92	10.85%	

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - D03

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$34.54	\$37.82	\$3.28	9.49%
	300	\$38.55	\$42.34	\$3.78	9.81%
	400	\$46.57	\$51.37	\$4.79	10.30%
	500	\$54.59	\$60.39	\$5.81	10.64%
	600	\$62.61	\$69.42	\$6.82	10.89%
	750	\$74.63	\$82.97	\$8.33	11.17%
	850	\$82.65	\$92.00	\$9.35	11.31%
	1000	\$94.68	\$105.54	\$10.86	11.47%
	1500	\$134.77	\$150.68	\$15.92	11.81%
	2000	\$174.85	\$195.83	\$20.97	12.00%
	3000	\$255.03	\$286.12	\$31.09	12.19%
4000	\$335.21	\$376.41	\$41.20	12.29%	
5000	\$415.39	\$466.70	\$51.31	12.35%	
SUMMER	250	\$40.51	\$43.85	\$3.34	8.26%
	300	\$45.71	\$49.57	\$3.86	8.45%
	400	\$56.11	\$61.01	\$4.90	8.73%
	500	\$66.52	\$72.45	\$5.94	8.93%
	600	\$76.92	\$83.90	\$6.98	9.07%
	750	\$92.53	\$101.06	\$8.53	9.22%
	850	\$102.93	\$112.50	\$9.57	9.30%
	1000	\$118.53	\$129.66	\$11.13	9.39%
	1500	\$170.55	\$186.86	\$16.31	9.57%
	2000	\$222.57	\$244.07	\$21.50	9.66%
	3000	\$326.60	\$358.48	\$31.88	9.76%
4000	\$430.64	\$472.89	\$42.25	9.81%	
5000	\$534.67	\$587.30	\$52.63	9.84%	
AVERAGE MONTHLY	250	\$36.53	\$39.83	\$3.30	9.03%
	300	\$40.94	\$44.75	\$3.81	9.31%
	400	\$49.75	\$54.58	\$4.83	9.71%
	500	\$58.56	\$64.41	\$5.85	9.99%
	600	\$67.38	\$74.25	\$6.87	10.20%
	750	\$80.60	\$89.00	\$8.40	10.42%
	850	\$89.41	\$98.83	\$9.42	10.54%
	1000	\$102.63	\$113.58	\$10.95	10.67%
	1500	\$146.69	\$162.74	\$16.05	10.94%
	2000	\$190.76	\$211.91	\$21.15	11.09%
	3000	\$278.89	\$310.24	\$31.35	11.24%
4000	\$367.02	\$408.57	\$41.55	11.32%	
5000	\$455.15	\$506.90	\$51.75	11.37%	

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - D02

On-Peak = 35%

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$37.77	\$40.91	\$3.14	8.31%
	300	\$42.02	\$45.64	\$3.62	8.61%
	400	\$50.53	\$55.10	\$4.57	9.05%
	500	\$59.04	\$64.57	\$5.53	9.37%
	600	\$67.54	\$74.03	\$6.49	9.60%
	750	\$80.30	\$88.22	\$7.92	9.86%
	850	\$88.81	\$97.69	\$8.88	9.99%
	1000	\$101.57	\$111.88	\$10.31	10.15%
	1500	\$144.11	\$159.20	\$15.09	10.47%
	2000	\$186.65	\$206.52	\$19.87	10.64%
	3000	\$271.72	\$301.15	\$29.43	10.83%
4000	\$356.79	\$395.78	\$38.99	10.93%	
5000	\$441.87	\$490.41	\$48.55	10.99%	
SUMMER	250	\$41.74	\$44.93	\$3.19	7.64%
	300	\$46.79	\$50.46	\$3.67	7.85%
	400	\$56.89	\$61.54	\$4.65	8.17%
	500	\$66.98	\$72.61	\$5.62	8.40%
	600	\$77.08	\$83.68	\$6.60	8.56%
	750	\$92.23	\$100.29	\$8.06	8.74%
	850	\$102.32	\$111.36	\$9.04	8.83%
	1000	\$117.47	\$127.97	\$10.50	8.94%
	1500	\$167.95	\$183.32	\$15.37	9.15%
	2000	\$218.43	\$238.68	\$20.25	9.27%
	3000	\$319.40	\$349.40	\$29.99	9.39%
4000	\$420.37	\$460.11	\$39.74	9.45%	
5000	\$521.34	\$570.83	\$49.49	9.49%	
AVERAGE MONTHLY	250	\$39.09	\$42.25	\$3.16	8.07%
	300	\$43.61	\$47.25	\$3.64	8.34%
	400	\$52.65	\$57.25	\$4.60	8.74%
	500	\$61.69	\$67.25	\$5.56	9.02%
	600	\$70.72	\$77.25	\$6.52	9.22%
	750	\$84.28	\$92.25	\$7.97	9.45%
	850	\$93.32	\$102.24	\$8.93	9.57%
	1000	\$106.87	\$117.24	\$10.37	9.71%
	1500	\$152.06	\$167.24	\$15.18	9.99%
	2000	\$197.24	\$217.24	\$19.99	10.14%
	3000	\$287.61	\$317.23	\$29.62	10.30%
4000	\$377.99	\$417.22	\$39.24	10.38%	
5000	\$468.36	\$517.22	\$48.86	10.43%	

Comparison Of Monthly Bills At Present & Proposed Rates

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - D02

On-Peak = 35%

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$36.44	\$39.67	\$3.23	8.86%
	300	\$40.43	\$44.15	\$3.72	9.21%
	400	\$48.40	\$53.12	\$4.72	9.74%
	500	\$56.38	\$62.08	\$5.71	10.12%
	600	\$64.35	\$71.05	\$6.70	10.41%
	750	\$76.32	\$84.50	\$8.18	10.72%
	850	\$84.29	\$93.47	\$9.18	10.89%
	1000	\$96.26	\$106.92	\$10.66	11.08%
	1500	\$136.14	\$151.75	\$15.62	11.47%
	2000	\$176.01	\$196.59	\$20.58	11.69%
	3000	\$255.77	\$286.26	\$30.49	11.92%
4000	\$335.53	\$375.93	\$40.40	12.04%	
5000	\$415.28	\$465.60	\$50.31	12.12%	
SUMMER	250	\$41.74	\$44.93	\$3.19	7.64%
	300	\$46.79	\$50.46	\$3.67	7.85%
	400	\$56.89	\$61.54	\$4.65	8.17%
	500	\$66.98	\$72.61	\$5.62	8.40%
	600	\$77.08	\$83.68	\$6.60	8.56%
	750	\$92.23	\$100.29	\$8.06	8.74%
	850	\$102.32	\$111.36	\$9.04	8.83%
	1000	\$117.47	\$127.97	\$10.50	8.94%
	1500	\$167.95	\$183.32	\$15.37	9.15%
	2000	\$218.43	\$238.68	\$20.25	9.27%
	3000	\$319.40	\$349.40	\$29.99	9.39%
4000	\$420.37	\$460.11	\$39.74	9.45%	
5000	\$521.34	\$570.83	\$49.49	9.49%	
AVERAGE MONTHLY	250	\$38.21	\$41.42	\$3.21	8.41%
	300	\$42.55	\$46.26	\$3.71	8.71%
	400	\$51.23	\$55.92	\$4.69	9.16%
	500	\$59.91	\$65.59	\$5.68	9.48%
	600	\$68.60	\$75.26	\$6.66	9.72%
	750	\$81.62	\$89.76	\$8.14	9.98%
	850	\$90.30	\$99.43	\$9.13	10.11%
	1000	\$103.33	\$113.93	\$10.61	10.27%
	1500	\$146.74	\$162.28	\$15.54	10.59%
	2000	\$190.15	\$210.62	\$20.47	10.76%
	3000	\$276.98	\$307.30	\$30.32	10.95%
4000	\$363.81	\$403.99	\$40.18	11.04%	
5000	\$450.63	\$500.67	\$50.04	11.10%	

Comparison Of Monthly Bills At Present & Proposed Rates

SMALL GENERAL SERVICE

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$39.14	\$40.38	\$1.23	3.15%
	300	\$43.62	\$45.10	\$1.48	3.40%
	400	\$52.57	\$54.55	\$1.98	3.76%
	500	\$61.53	\$64.00	\$2.47	4.01%
	600	\$70.49	\$73.45	\$2.96	4.20%
	750	\$83.92	\$87.63	\$3.70	4.41%
	1000	\$106.31	\$111.25	\$4.94	4.65%
	1500	\$151.09	\$158.50	\$7.41	4.90%
	2000	\$195.87	\$205.75	\$9.88	5.04%
	3000	\$285.43	\$300.25	\$14.82	5.19%
	4000	\$374.99	\$394.75	\$19.76	5.27%
5000	\$464.55	\$489.25	\$24.70	5.32%	
SUMMER	250	\$43.38	\$44.66	\$1.28	2.95%
	300	\$48.70	\$50.24	\$1.54	3.15%
	400	\$59.35	\$61.40	\$2.05	3.45%
	500	\$70.00	\$72.56	\$2.56	3.66%
	600	\$80.65	\$83.72	\$3.07	3.81%
	750	\$96.63	\$100.47	\$3.84	3.97%
	1000	\$123.26	\$128.37	\$5.12	4.15%
	1500	\$176.51	\$184.19	\$7.68	4.35%
	2000	\$229.76	\$240.00	\$10.24	4.46%
	3000	\$336.27	\$351.62	\$15.35	4.57%
	4000	\$442.77	\$463.25	\$20.47	4.62%
5000	\$549.28	\$574.87	\$25.59	4.66%	
AVERAGE MONTHLY	250	\$40.55	\$41.80	\$1.25	3.08%
	300	\$45.31	\$46.81	\$1.50	3.31%
	400	\$54.83	\$56.83	\$2.00	3.65%
	500	\$64.35	\$66.85	\$2.50	3.88%
	600	\$73.88	\$76.87	\$3.00	4.06%
	750	\$88.16	\$91.91	\$3.75	4.25%
	1000	\$111.96	\$116.96	\$5.00	4.46%
	1500	\$159.56	\$167.06	\$7.50	4.70%
	2000	\$207.17	\$217.17	\$10.00	4.83%
	3000	\$302.38	\$317.37	\$15.00	4.96%
	4000	\$397.59	\$417.58	\$20.00	5.03%
5000	\$492.80	\$517.79	\$24.99	5.07%	

Comparison Of Monthly 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	\$381.77	\$428.50	\$46.73	12.24%
15	6,000	400	\$567.55	\$629.90	\$62.35	10.99%
15	9,000	600	\$721.83	\$793.80	\$71.97	9.97%
25	5,000	200	\$619.13	\$696.77	\$77.64	12.54%
25	10,000	400	\$928.76	\$1,032.44	\$103.68	11.16%
25	15,000	600	\$1,185.90	\$1,305.60	\$119.71	10.09%
50	10,000	200	\$1,212.51	\$1,367.44	\$154.93	12.78%
50	20,000	400	\$1,831.78	\$2,038.77	\$206.99	11.30%
50	30,000	600	\$2,346.05	\$2,585.11	\$239.06	10.19%
75	15,000	200	\$1,805.90	\$2,038.10	\$232.21	12.86%
75	30,000	400	\$2,734.80	\$3,045.11	\$310.31	11.35%
75	45,000	600	\$3,506.21	\$3,864.61	\$358.40	10.22%
100	20,000	200	\$2,399.28	\$2,708.77	\$309.49	12.90%
100	40,000	400	\$3,637.83	\$4,051.45	\$413.62	11.37%
100	60,000	600	\$4,666.37	\$5,144.12	\$477.75	10.24%
200	40,000	200	\$4,772.83	\$5,391.45	\$618.62	12.96%
200	80,000	400	\$7,249.91	\$8,076.79	\$826.88	11.41%
200	120,000	600	\$9,307.00	\$10,262.14	\$955.14	10.26%
300	60,000	200	\$7,146.37	\$8,074.12	\$927.75	12.98%
300	120,000	400	\$10,862.00	\$12,102.14	\$1,240.14	11.42%
300	180,000	600	\$13,947.62	\$15,380.16	\$1,432.53	10.27%
500	100,000	200	\$11,893.45	\$13,439.46	\$1,546.01	13.00%
500	200,000	400	\$18,086.17	\$20,152.83	\$2,066.66	11.43%
500	300,000	600	\$23,228.88	\$25,616.19	\$2,387.31	10.28%
1,000	200,000	200	\$23,761.17	\$26,852.83	\$3,091.66	13.01%
1,000	400,000	400	\$36,146.59	\$40,279.56	\$4,132.97	11.43%
1,000	600,000	600	\$46,432.02	\$51,206.29	\$4,774.27	10.28%
3,000	600,000	200	\$71,232.02	\$80,506.29	\$9,274.27	13.02%
3,000	1,200,000	400	\$108,388.30	\$120,786.48	\$12,398.18	11.44%
3,000	1,800,000	600	\$139,244.58	\$153,566.67	\$14,322.09	10.29%
5,000	1,000,000	200	\$118,702.87	\$134,159.75	\$15,456.88	13.02%
5,000	2,000,000	400	\$180,630.00	\$201,293.40	\$20,663.39	11.44%
5,000	3,000,000	600	\$232,057.14	\$255,927.04	\$23,869.91	10.29%

Comparison Of Monthly 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	\$369.47	\$418.00	\$48.53	13.13%
15	6,000	400	\$551.95	\$616.40	\$64.45	11.68%
15	9,000	600	\$702.93	\$777.30	\$74.37	10.58%
25	5,000	200	\$598.63	\$679.27	\$80.64	13.47%
25	10,000	400	\$902.76	\$1,009.94	\$107.18	11.87%
25	15,000	600	\$1,154.40	\$1,278.10	\$123.71	10.72%
50	10,000	200	\$1,171.51	\$1,332.44	\$160.93	13.74%
50	20,000	400	\$1,779.78	\$1,993.77	\$213.99	12.02%
50	30,000	600	\$2,283.05	\$2,530.11	\$247.06	10.82%
75	15,000	200	\$1,744.40	\$1,985.60	\$241.21	13.83%
75	30,000	400	\$2,656.80	\$2,977.61	\$320.81	12.07%
75	45,000	600	\$3,411.71	\$3,782.11	\$370.40	10.86%
100	20,000	200	\$2,317.28	\$2,638.77	\$321.49	13.87%
100	40,000	400	\$3,533.83	\$3,961.45	\$427.62	12.10%
100	60,000	600	\$4,540.37	\$5,034.12	\$493.75	10.87%
200	40,000	200	\$4,608.83	\$5,251.45	\$642.62	13.94%
200	80,000	400	\$7,041.91	\$7,896.79	\$854.88	12.14%
200	120,000	600	\$9,055.00	\$10,042.14	\$987.14	10.90%
300	60,000	200	\$6,900.37	\$7,864.12	\$963.75	13.97%
300	120,000	400	\$10,550.00	\$11,832.14	\$1,282.14	12.15%
300	180,000	600	\$13,569.62	\$15,050.16	\$1,480.53	10.91%
500	100,000	200	\$11,483.45	\$13,089.46	\$1,606.01	13.99%
500	200,000	400	\$17,566.17	\$19,702.83	\$2,136.66	12.16%
500	300,000	600	\$22,598.88	\$25,066.19	\$2,467.31	10.92%
1,000	200,000	200	\$22,941.17	\$26,152.83	\$3,211.66	14.00%
1,000	400,000	400	\$35,106.59	\$39,379.56	\$4,272.97	12.17%
1,000	600,000	600	\$45,172.02	\$50,106.29	\$4,934.27	10.92%
3,000	600,000	200	\$68,772.02	\$78,406.29	\$9,634.27	14.01%
3,000	1,200,000	400	\$105,268.30	\$118,086.48	\$12,818.18	12.18%
3,000	1,800,000	600	\$135,464.58	\$150,266.67	\$14,802.09	10.93%
5,000	1,000,000	200	\$114,602.87	\$130,659.75	\$16,056.88	14.01%
5,000	2,000,000	400	\$175,430.00	\$196,793.40	\$21,363.39	12.18%
5,000	3,000,000	600	\$225,757.14	\$250,427.04	\$24,669.91	10.93%

Comparison Of Monthly 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	\$381.35	\$426.77	\$45.42	11.91%
15	6,000	400	\$563.70	\$623.44	\$59.74	10.60%
15	9,000	600	\$714.56	\$782.61	\$68.05	9.52%
25	5,000	200	\$616.42	\$691.88	\$75.47	12.24%
25	10,000	400	\$920.34	\$1,019.66	\$99.32	10.79%
25	15,000	600	\$1,171.77	\$1,284.95	\$113.18	9.66%
50	10,000	200	\$1,204.09	\$1,354.66	\$150.57	12.50%
50	20,000	400	\$1,811.95	\$2,010.23	\$198.28	10.94%
50	30,000	600	\$2,314.80	\$2,540.79	\$225.99	9.76%
75	15,000	200	\$1,791.77	\$2,017.45	\$225.68	12.60%
75	30,000	400	\$2,703.55	\$3,000.79	\$297.24	10.99%
75	45,000	600	\$3,457.83	\$3,796.64	\$338.81	9.80%
100	20,000	200	\$2,379.45	\$2,680.23	\$300.78	12.64%
100	40,000	400	\$3,595.16	\$3,991.36	\$396.20	11.02%
100	60,000	600	\$4,600.87	\$5,052.49	\$451.62	9.82%
200	40,000	200	\$4,730.16	\$5,331.36	\$601.20	12.71%
200	80,000	400	\$7,161.57	\$7,953.62	\$792.05	11.06%
200	120,000	600	\$9,172.99	\$10,075.88	\$902.89	9.84%
300	60,000	200	\$7,080.87	\$7,982.49	\$901.62	12.73%
300	120,000	400	\$10,727.99	\$11,915.88	\$1,187.89	11.07%
300	180,000	600	\$13,745.12	\$15,099.27	\$1,354.15	9.85%
500	100,000	200	\$11,782.28	\$13,284.75	\$1,502.47	12.75%
500	200,000	400	\$17,860.82	\$19,840.40	\$1,979.57	11.08%
500	300,000	600	\$22,889.37	\$25,146.05	\$2,256.68	9.86%
1,000	200,000	200	\$23,535.82	\$26,540.40	\$3,004.57	12.77%
1,000	400,000	400	\$35,692.91	\$39,651.70	\$3,958.79	11.09%
1,000	600,000	600	\$45,749.99	\$50,262.99	\$4,513.00	9.86%
3,000	600,000	200	\$70,549.99	\$79,562.99	\$9,013.00	12.78%
3,000	1,200,000	400	\$107,021.24	\$118,896.89	\$11,875.64	11.10%
3,000	1,800,000	600	\$137,192.50	\$150,730.78	\$13,538.28	9.87%
5,000	1,000,000	200	\$117,564.16	\$132,585.59	\$15,021.43	12.78%
5,000	2,000,000	400	\$178,349.58	\$198,142.08	\$19,792.50	11.10%
5,000	3,000,000	600	\$228,635.00	\$251,198.56	\$22,563.56	9.87%

Comparison Of Monthly 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	\$369.05	\$416.27	\$47.22	12.80%
15	6,000	400	\$548.10	\$609.94	\$61.84	11.28%
15	9,000	600	\$695.66	\$766.11	\$70.45	10.13%
25	5,000	200	\$595.92	\$674.38	\$78.47	13.17%
25	10,000	400	\$894.34	\$997.16	\$102.82	11.50%
25	15,000	600	\$1,140.27	\$1,257.45	\$117.18	10.28%
50	10,000	200	\$1,163.09	\$1,319.66	\$156.57	13.46%
50	20,000	400	\$1,759.95	\$1,965.23	\$205.28	11.66%
50	30,000	600	\$2,251.80	\$2,485.79	\$233.99	10.39%
75	15,000	200	\$1,730.27	\$1,964.95	\$234.68	13.56%
75	30,000	400	\$2,625.55	\$2,933.29	\$307.74	11.72%
75	45,000	600	\$3,363.33	\$3,714.14	\$350.81	10.43%
100	20,000	200	\$2,297.45	\$2,610.23	\$312.78	13.61%
100	40,000	400	\$3,491.16	\$3,901.36	\$410.20	11.75%
100	60,000	600	\$4,474.87	\$4,942.49	\$467.62	10.45%
200	40,000	200	\$4,566.16	\$5,191.36	\$625.20	13.69%
200	80,000	400	\$6,953.57	\$7,773.62	\$820.05	11.79%
200	120,000	600	\$8,920.99	\$9,855.88	\$934.89	10.48%
300	60,000	200	\$6,834.87	\$7,772.49	\$937.62	13.72%
300	120,000	400	\$10,415.99	\$11,645.88	\$1,229.89	11.81%
300	180,000	600	\$13,367.12	\$14,769.27	\$1,402.15	10.49%
500	100,000	200	\$11,372.28	\$12,934.75	\$1,562.47	13.74%
500	200,000	400	\$17,340.82	\$19,390.40	\$2,049.57	11.82%
500	300,000	600	\$22,259.37	\$24,596.05	\$2,336.68	10.50%
1,000	200,000	200	\$22,715.82	\$25,840.40	\$3,124.57	13.76%
1,000	400,000	400	\$34,652.91	\$38,751.70	\$4,098.79	11.83%
1,000	600,000	600	\$44,489.99	\$49,162.99	\$4,673.00	10.50%
3,000	600,000	200	\$68,089.99	\$77,462.99	\$9,373.00	13.77%
3,000	1,200,000	400	\$103,901.24	\$116,196.89	\$12,295.64	11.83%
3,000	1,800,000	600	\$133,412.50	\$147,430.78	\$14,018.28	10.51%
5,000	1,000,000	200	\$113,464.16	\$129,085.59	\$15,621.43	13.77%
5,000	2,000,000	400	\$173,149.58	\$193,642.08	\$20,492.50	11.84%
5,000	3,000,000	600	\$222,335.00	\$245,698.56	\$23,363.56	10.51%

Comparison Of Monthly Bills At Present & Proposed Rates

PEAK-CONTROLLED SERVICE (Secondary Voltage)

Tier 2 Perf Factor B - No Firm Demand

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
50	10,000	200	\$1,054.27	\$1,198.34	\$144.07	13.66%
50	20,000	400	\$1,673.54	\$1,869.67	\$196.13	11.72%
50	30,000	600	\$2,187.81	\$2,416.01	\$228.20	10.43%
75	15,000	200	\$1,553.16	\$1,768.50	\$215.35	13.87%
75	30,000	400	\$2,482.06	\$2,775.51	\$293.45	11.82%
75	45,000	600	\$3,253.47	\$3,595.01	\$341.54	10.50%
100	20,000	200	\$2,052.04	\$2,338.67	\$286.63	13.97%
100	40,000	400	\$3,290.59	\$3,681.35	\$390.76	11.88%
100	60,000	600	\$4,319.13	\$4,774.02	\$454.89	10.53%
150	30,000	200	\$3,049.81	\$3,479.01	\$429.20	14.07%
150	60,000	400	\$4,907.63	\$5,493.02	\$585.39	11.93%
150	90,000	600	\$6,450.44	\$7,132.03	\$681.59	10.57%
200	40,000	200	\$4,047.59	\$4,619.35	\$571.76	14.13%
200	80,000	400	\$6,524.67	\$7,304.69	\$780.02	11.95%
200	120,000	600	\$8,581.76	\$9,490.04	\$908.28	10.58%
300	60,000	200	\$6,043.13	\$6,900.02	\$856.89	14.18%
300	120,000	400	\$9,758.76	\$10,928.04	\$1,169.28	11.98%
300	180,000	600	\$12,844.38	\$14,206.06	\$1,361.67	10.60%
400	80,000	200	\$8,038.67	\$9,180.69	\$1,142.02	14.21%
400	160,000	400	\$12,992.84	\$14,551.38	\$1,558.54	12.00%
400	240,000	600	\$17,107.01	\$18,922.08	\$1,815.06	10.61%
500	100,000	200	\$10,034.21	\$11,461.36	\$1,427.15	14.22%
500	200,000	400	\$16,226.93	\$18,174.73	\$1,947.80	12.00%
500	300,000	600	\$21,369.64	\$23,638.09	\$2,268.45	10.62%
1,000	200,000	200	\$20,011.93	\$22,864.73	\$2,852.80	14.26%
1,000	400,000	400	\$32,397.35	\$36,291.46	\$3,894.11	12.02%
1,000	600,000	600	\$42,682.78	\$47,218.19	\$4,535.41	10.63%
3,000	600,000	200	\$59,922.78	\$68,478.19	\$8,555.41	14.28%
3,000	1,200,000	400	\$97,079.06	\$108,758.38	\$11,679.32	12.03%
3,000	1,800,000	600	\$127,935.34	\$141,538.57	\$13,603.23	10.63%
5,000	1,000,000	200	\$99,833.63	\$114,091.65	\$14,258.02	14.28%
5,000	2,000,000	400	\$161,760.76	\$181,225.30	\$19,464.53	12.03%
5,000	3,000,000	600	\$213,187.90	\$235,858.94	\$22,671.05	10.63%

Comparison Of Monthly Bills At Present & Proposed Rates

PEAK-CONTROLLED TOD SERVICE (Secondary Voltage)

Tier 2 Perf Factor B - No Firm Demand

40% On-Peak
 60% Off-Peak

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
50	10,000	200	\$1,042.85	\$1,182.56	\$139.71	13.40%
50	20,000	400	\$1,650.71	\$1,838.13	\$187.42	11.35%
50	30,000	600	\$2,153.56	\$2,368.69	\$215.13	9.99%
75	15,000	200	\$1,536.03	\$1,744.85	\$208.82	13.59%
75	30,000	400	\$2,447.81	\$2,728.19	\$280.38	11.45%
75	45,000	600	\$3,202.09	\$3,524.04	\$321.95	10.05%
100	20,000	200	\$2,029.21	\$2,307.13	\$277.92	13.70%
100	40,000	400	\$3,244.92	\$3,618.26	\$373.34	11.51%
100	60,000	600	\$4,250.63	\$4,679.39	\$428.76	10.09%
150	30,000	200	\$3,015.56	\$3,431.69	\$416.13	13.80%
150	60,000	400	\$4,839.13	\$5,398.39	\$559.26	11.56%
150	90,000	600	\$6,347.69	\$6,990.08	\$642.40	10.12%
200	40,000	200	\$4,001.92	\$4,556.26	\$554.34	13.85%
200	80,000	400	\$6,433.33	\$7,178.52	\$745.19	11.58%
200	120,000	600	\$8,444.75	\$9,300.78	\$856.03	10.14%
300	60,000	200	\$5,974.63	\$6,805.39	\$830.76	13.90%
300	120,000	400	\$9,621.75	\$10,738.78	\$1,117.03	11.61%
300	180,000	600	\$12,638.88	\$13,922.17	\$1,283.29	10.15%
400	80,000	200	\$7,947.33	\$9,054.52	\$1,107.19	13.93%
400	160,000	400	\$12,810.17	\$14,299.04	\$1,488.87	11.62%
400	240,000	600	\$16,833.00	\$18,543.56	\$1,710.56	10.16%
500	100,000	200	\$9,920.04	\$11,303.65	\$1,383.61	13.95%
500	200,000	400	\$15,998.58	\$17,859.30	\$1,860.71	11.63%
500	300,000	600	\$21,027.13	\$23,164.95	\$2,137.82	10.17%
1,000	200,000	200	\$19,783.58	\$22,549.30	\$2,765.71	13.98%
1,000	400,000	400	\$31,940.67	\$35,660.60	\$3,719.93	11.65%
1,000	600,000	600	\$41,997.75	\$46,271.89	\$4,274.14	10.18%
3,000	600,000	200	\$59,237.75	\$67,531.89	\$8,294.14	14.00%
3,000	1,200,000	400	\$95,709.00	\$106,865.79	\$11,156.78	11.66%
3,000	1,800,000	600	\$125,880.26	\$138,699.68	\$12,819.42	10.18%
5,000	1,000,000	200	\$98,691.92	\$112,514.49	\$13,822.57	14.01%
5,000	2,000,000	400	\$159,477.34	\$178,070.98	\$18,593.64	11.66%
5,000	3,000,000	600	\$209,762.76	\$231,127.46	\$21,364.70	10.19%

Comparison Of Monthly Bills At Present & Proposed Rates

TIER 1 ENERGY-CONTROLLED RIDER (Secondary Voltage)

40% On-Peak
 60% Off-Peak

Perf Factor C - No Firm Demand

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
50	10,000	200	\$965.85	\$1,102.76	\$136.91	14.18%
50	20,000	400	\$1,558.21	\$1,743.53	\$185.32	11.89%
50	30,000	600	\$2,045.56	\$2,259.29	\$213.73	10.45%
75	15,000	200	\$1,420.53	\$1,625.15	\$204.62	14.40%
75	30,000	400	\$2,309.06	\$2,586.29	\$277.23	12.01%
75	45,000	600	\$3,040.09	\$3,359.94	\$319.85	10.52%
100	20,000	200	\$1,875.21	\$2,147.53	\$272.32	14.52%
100	40,000	400	\$3,059.92	\$3,429.06	\$369.14	12.06%
100	60,000	600	\$4,034.63	\$4,460.59	\$425.96	10.56%
150	30,000	200	\$2,784.56	\$3,192.29	\$407.73	14.64%
150	60,000	400	\$4,561.63	\$5,114.59	\$552.96	12.12%
150	90,000	600	\$6,023.69	\$6,661.88	\$638.20	10.59%
200	40,000	200	\$3,693.92	\$4,237.06	\$543.14	14.70%
200	80,000	400	\$6,063.33	\$6,800.12	\$736.79	12.15%
200	120,000	600	\$8,012.75	\$8,863.18	\$850.43	10.61%
300	60,000	200	\$5,512.63	\$6,326.59	\$813.96	14.77%
300	120,000	400	\$9,066.75	\$10,171.18	\$1,104.43	12.18%
300	180,000	600	\$11,990.88	\$13,265.77	\$1,274.89	10.63%
400	80,000	200	\$7,331.33	\$8,416.12	\$1,084.79	14.80%
400	160,000	400	\$12,070.17	\$13,542.24	\$1,472.07	12.20%
400	240,000	600	\$15,969.00	\$17,668.36	\$1,699.36	10.64%
500	100,000	200	\$9,150.04	\$10,505.65	\$1,355.61	14.82%
500	200,000	400	\$15,073.58	\$16,913.30	\$1,839.71	12.20%
500	300,000	600	\$19,947.13	\$22,070.95	\$2,123.82	10.65%
1,000	200,000	200	\$18,243.58	\$20,953.30	\$2,709.71	14.85%
1,000	400,000	400	\$30,090.67	\$33,768.60	\$3,677.93	12.22%
1,000	600,000	600	\$39,837.75	\$44,083.89	\$4,246.14	10.66%
3,000	600,000	200	\$54,617.75	\$62,743.89	\$8,126.14	14.88%
3,000	1,200,000	400	\$90,159.00	\$101,189.79	\$11,030.78	12.23%
3,000	1,800,000	600	\$119,400.26	\$132,135.68	\$12,735.42	10.67%
5,000	1,000,000	200	\$90,991.92	\$104,534.49	\$13,542.57	14.88%
5,000	2,000,000	400	\$150,227.34	\$168,610.98	\$18,383.64	12.24%
5,000	3,000,000	600	\$198,962.76	\$220,187.46	\$21,224.70	10.67%

Fuel Cost Rider - Service Category Ratio Calculation

		SERVICE CATEGORY				
		Residential	C&I Non-Dmd	C&I Demand	Outdoor Lighting	RETAIL
STEP 1: CLASS RATIOS						
1.	Hourly Marginal Energy Costs x Hourly Loads*	\$16,526,715	\$2,208,730	\$25,744,246	\$294,807	\$44,774,499
2.	MWh Energy at Generator	832,880	110,930	1,314,629	19,195	2,277,634
3.	Load-Weighted Marginal Energy Cost /MWh =(1)/(2)	\$19.843	\$19.911	\$19.583	\$15.358	\$19.658
4.	Class Ratio (Class Unit Cost / Retail Unit Cost)	1.0094	1.0129	0.9962	0.7813	1.0000
STEP 2: C&I DEMAND TOD RATIOS						
5.	Ratio of On-Peak to Off-Peak System Weighted Marginal Energy Costs					
6.	C&I Demand Class Time-of-Day Percentages from 8760 loads			1.4514		
7.	C&I Demand TOD On-Peak Ratio = 1 / (0.4143 + (0.5857 / 1.451)) **			0.4143	0.5857	
8.	C&I Demand TOD Off-Peak Ratio = 1 / ((1.451 x 0.4143) + 0.5857) **			1.2227	0.8424	
9.	C&I Demand Non-TOD On-Peak Weighting			0.4425		
10.	C&I Demand Non-TOD Off-Peak Weighting			0.5575		
11.	C&I Demand Non-TOD Ratio = (0.4425 x 1.2227) + (0.5575 x 0.8424)			1.0107		
STEP 3: SERVICE CATEGORY RATIOS						
12.	= Step 1, or for C&I Demand, Step 1 x Step 2	1.0094 (4)	1.0129 (4)	1.2181 (4) x (7)	0.8392 (4) x (8)	0.7813 (4)

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

** Based on C&I Demand Weighted Average = (41.43% class on-peak x on-peak charge) + (58.57% class off-peak x off-peak charge)

Northern States Power Company
 Electric Utility - North Dakota
VOLTAGE DISCOUNT ANALYSIS
Demand Charge

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	Distribution Cost - 2021	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 33	\$578			\$578
2	Pri - Line 32	\$3,268	\$689		\$3,957
3	Sub - Line 31	\$2,115	\$434		\$2,550
4	Total	\$5,961	\$1,124	\$0	\$7,084

Billing KW

9	Sec	2,990			2,990
10	Pri	2,990	296		3,287
11	Sub	2,990	296		3,287

Incremental Losses

12	Sec	1.0000			
13	Pri	1.0116	1.0000		
14	Sub	1.0220	1.0103	1.0000	

Billing KW with Losses

15	Sec	2,990			2,990
16	Pri	3,025	296		3,321
17	Sub	3,056	300		3,356

Cost per kW - 2021

18	Sec (1) / (15)	\$0.19			\$0.19	(a)
19	Pri (2) / (16)	\$1.09	\$2.32		\$1.19	(b)
20	Sub (3) / (17)	\$0.71	\$1.47		\$0.76	(c)

Demand Voltage Discount	2021 Cost	Present	Proposed
Primary (a)	\$0.19	\$0.60	\$0.50
Tr Transformed (a) + (b)	\$1.38	\$1.10	\$1.40
Transmission (a) + (b) + (c)	\$2.14	\$1.50	\$2.10

Northern States Power Company
 Electric Utility - North Dakota
VOLTAGE DISCOUNT ANALYSIS
Energy Charge

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		Transmission		
	Secondary	Primary	Transformed	Transmission
1 E8760 Losses	6.62%	5.54%	4.57%	3.23%
2 Percent Difference	0.00%	1.08%	2.05%	3.39%
3 Prior Percent Difference		1.80%	3.71%	4.20%
4 Percent Difference - Max or Ave		1.44%	2.88%	3.79%

Proposed General Service - per kWh

3 Base Energy and Fuel - 2021	6.715 ¢	6.618 ¢	6.522 ¢	6.460 ¢
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Energy Voltage Discount - per kWh

4 Discount from Secondary - 2021		0.100 ¢	0.190 ¢	0.250 ¢
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