

**REVISED** 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-20-441  
Exhibit\_\_\_\_(NNP-1)

**Rate Design**

March 26, 2021

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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)**

	Present	Proposed	Proposed Increase	Percent Increase
Retail Rate Revenue	\$206,416	<del>\$228,594</del> <u>\$225,570</u>	<del>\$22,178</del> <u>\$19,154</u>	<del>10.74%</del> <u>9.28%</u>
+ Other Increases	0	<u>5043</u>	<u>5043</u>	
Total	\$206,416	<del>\$228,644</del> <u>\$225,613</u>	<del>\$22,228</del> <u>\$19,197</u>	<del>10.77%</del> <u>9.30%</u>

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

21  
 22 Q. HAVE YOU PROVIDED MORE DETAILED COMPARISONS OF TEST-YEAR  
 23 REVENUES?

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

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

27 - Filed as Exhibit\_\_\_\_(NNP-1), Schedule 2;

1           • **Revenue by Rate Class**

2                 – Filed as Exhibit\_\_\_\_(NNP-1), Schedule 3; and

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

4                 – Filed as Exhibit\_\_\_\_(NNP-1), Schedule 4.

5                 –

6 Q. PLEASE DESCRIBE THE COMPARISONS FILED AS EXHIBIT\_\_\_\_(NNP-1),  
7 SCHEDULE 5 AND EXHIBIT\_\_\_\_(NNP-1), SCHEDULE 6.

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

12  
13                                   **III. CLASS REVENUE RESPONSIBILITY**

14  
15 Q. HOW DID YOU DETERMINE THE PROPOSED DISTRIBUTION OF CLASS-REVENUE  
16 RESPONSIBILITY?

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

25           • Residential:                 ~~0.340.21~~ percent over cost

26           • C&I Non-Demand:         ~~6.486.31~~ percent over cost

27           • C&I Demand:                 ~~0.400.26~~ percent under cost

- Lighting: ~~29.00~~29.52 percent under cost

The relatively small cost differences for the Residential and C&I Demand classes support setting rates at the cost of service. Moderate class specific movement to bring all classes close to cost is preferred over the average retail increase due to the varying direction and magnitude each class sits from cost. Additionally, a cost-based apportionment will allow the C&I non-demand class to be set at a lower cost compared to the retail average as indicated by the CCOSS. The differential for the Lighting class is larger, so it is appropriate to use a moderated movement to cost for that class. As explained in more detail in the rate design section of my testimony, the proposed increase for the Lighting class as a whole is a result of moderating the significant range of cost differentials for the three categories within that class. The moderated apportionment to the lighting class will require both Residential and C&I Demand revenues to be slightly over cost.



Table 2

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%
		<u>\$91,334</u>	<u>9.07%</u>	<u>\$91,526</u>	<u>9.30%</u>
Non-Demand	11,379	11,866	4.28%	11,892	4.50%
		<u>11,717</u>	<u>2.97%</u>	<u>11,742</u>	<u>3.18%</u>
C&I Demand	109,232	121,397	11.14%	121,659	11.38%
		<u>119,652</u>	<u>9.54%</u>	<u>119,904</u>	<u>9.77%</u>
Lighting	2,066	2,887	39.74%	2,399	16.13%
		<u>2,867</u>	<u>38.80%</u>		
Total Retail	\$206,416	\$228,594	10.74%	\$228,594	10.74%
		<u>\$225,570</u>	<u>9.28%</u>	<u>\$225,570</u>	<u>9.28%</u>
Total	\$206,416	\$228,644	10.77%	\$228,644	10.77%
		<u>\$225,613</u>	<u>9.30%</u>	<u>\$225,613</u>	<u>9.30%</u>

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

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

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

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

3

4

#### IV. RATE DESIGN PROPOSALS

5

6 Q. IS THE COMPANY PROPOSING ANY STRUCTURAL CHANGES TO ITS BASIC RATE  
7 STRUCTURE?

8 A. No.

9

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

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

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

18

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

21 A. According to the CCOSS, the fixed monthly cost of serving residential  
22 customers is ~~\$15.41~~\$15.28.

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

<b>Service Category</b>	<b>Present</b>	<b>Proposed</b>
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

12

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 ~~10.69.3~~ percent was distributed as a ~~10.49.1~~ percent increase  
14      for standard non-heating service and ~~11.19.7~~ percent increase for electric space  
15      heating service. The ~~0.70.6~~ percentage point differential was moderated based  
16      on the corresponding test-year 2021 cost of service differential, which is ~~2.72.5~~  
17      percentage 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 0.270.32 cents per kWh to moderate the increases  
7 otherwise 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**

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

10  
11  
12  
13  
14  
15  
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~~6.1 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 ~~5.55~~5.8 percent to  
26 ~~6.36~~6.4 percent. Table 5 outlines current and proposed interruptible discounts.

**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	<del>\$3.78</del>	\$3.09	\$5.01	\$4.45	\$3.66
Proposed	\$4.50	<del>\$4.02</del>	<del>\$3.26</del>	<del>\$5.32</del>	\$4.73	\$3.87
		<u>\$4.01</u>	<u>\$3.27</u>	<u>\$5.33</u>		
Increase	\$0.26	<del>\$0.24</del>	<del>\$0.17</del>	<del>\$0.31</del>	\$0.28	\$0.21
		<u>\$0.23</u>	<u>\$0.18</u>	<u>\$0.32</u>		
Increase %	6.1%	<del>6.3%</del>	<del>5.5%</del>	<del>6.2%</del>	6.3%	5.7%
		<u>6.1%</u>	<u>5.8%</u>	<u>6.4%</u>		

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 9.79.8 percentage points below the proposed base energy charge increase – based on an ~~18.1~~16.3 percent demand charge increase and a ~~27.8~~26.1 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



1 higher load factors than for customers with lower load factors. These  
2 differentials for General Service and General Time of Day Service are shown in  
3 Exhibit\_\_\_(NNP-1), Schedule 6, with the different percent increases for  
4 customer load factors at 200, 400 and 600 hours of use per month. For a  
5 customer with a demand of 100 kW, the percent increase at the 600 hours use  
6 level is approximately three percentage points less than at the 200 hours use  
7 level.

8  
9 Q. HOW WERE THE VOLTAGE DISCOUNTS DERIVED?

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

18  
19 **D. Lighting Services**

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

22 A. Yes. The proposed revenue levels were determined by moderately applying the  
23 CCOSS-indicating adjustments for the three lighting sub-categories. Street  
24 lighting for municipal customers includes the System and Energy service cost  
25 categories. System service is full service lighting that includes the lighting  
26 system, energy, maintenance and repairs. The Energy category includes flat-  
27 rate Purchased Equipment services and metered energy-only service. Protective

1 service is full service security lighting that is available for residential and  
2 commercial customers. The substantial cost increase indicated by the CCOSS  
3 for System service was moderated to a proposed increase of 19.3- percent, or  
4 80 percent above the average retail increase. The cost-based rate reductions  
5 indicated by the CCOSS for the other sub-categories were also moderated to  
6 proposed increases of 15.8 percent for the Energy category and a 13.8 percent  
7 increase for Protective lighting. As a result of the moderating limitations  
8 required to manage these individual sub-category cost differences, the overall  
9 16.1 percent proposed increase for the Lighting class differs from the ~~39.7~~38.8  
10 percent increase supported by the CCOSS.

11  
12 **E. Fuel Cost Rider**

13 Q. HAS THE PROPOSED FUEL COST RIDER BEEN UPDATED FOR THE TEST YEAR  
14 2021?

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

19  
20 **F. Tariff Modifications**

21 *1. Peak Controlled Service Rules*

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

24 A. Yes. Two additions are proposed. The first addition is proposed rule no. 4,  
25 requiring that customers provide reliable contact information for the purpose  
26 of receiving control period notifications. This is an essential requirement that  
27 has largely been followed by customers without a formal rule because it is also

1 in their best interest to avoid control failure charges. However, some recent  
2 difficulty with reliably contacting all customers indicates a formal rule may be a  
3 helpful addition.

4 The second clarification is the addition of proposed rule no. 8 regarding new  
5 Company testing requirements that are required by the Midcontinent  
6 Independent System Operator (MISO). In their FERC filing in Docket ER19-  
7 651, MISO stated the following about testing requirements:

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

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

21  
22 *2. Compliance Rate Book Revisions*

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

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

29

1 Q. WHY DID THE COMPANY UNDERTAKE THIS COMPREHENSIVE UPDATE OF ITS  
2 NORTH DAKOTA ELECTRIC RATE BOOK?

3 A. In the Revised Second Amended Comprehensive Settlement Agreement in the  
4 Company's last North Dakota rate case (Case No. PU-12-813) approved by the  
5 Commission Order on February 26, 2014 (2014 Settlement), the Company  
6 agreed to submit an updated and improved North Dakota Electric Rate Book  
7 (Rate Book) no later than the date of its next general rate application. This was  
8 requested by Commission Advocacy Staff, who had conducted a review of the  
9 Rate Book and felt that certain language was unclear, somewhat outdated, or  
10 otherwise in need of improvement. The 2014 Settlement contemplated that the  
11 Company would undertake its own thorough review of all tariffs and general  
12 rules of service, and update them with language and/or formatting changes that  
13 will "improve readability, remove unnecessary phrases or sections, and ensure  
14 the terminology is up-to-date and understandable."  
15

16 Q. HOW DID THE COMPANY APPROACH UPDATING THE NORTH DAKOTA  
17 ELECTRIC RATE BOOK?

18 A. The Company undertook a line-by-line review and revision process to make the  
19 Rate Book more usable by customers, developers, and regulators in North  
20 Dakota. In our proposed revisions, we significantly expand the Definitions  
21 section in Section 4 of the Rate Book to provide readers a single place to find  
22 defined terms. Previously, many technical terms were undefined or were  
23 defined in various sections of the Rate Book, making them more difficult to  
24 locate. In Section 5 of the Rate Book, we propose to use a more standardized  
25 format for all rate schedules to clarify the different rate types and their  
26 applicability and facilitate comparisons between rates. In compliance with the  
27 2014 Settlement, we propose to cancel several rates and riders which have little

1 or no customer participation and are closed to new customers. In addition to  
2 these wholesale changes, we propose wording changes throughout the Rate  
3 Book to update the language and make it more readable and understandable.  
4

5 Q. DO THE COMPANY'S PROPOSED REVISIONS MEET THE REQUIREMENTS SET  
6 FORTH IN THE 2014 SETTLEMENT?

7 A. Yes. The Commission Staff's objective in this regard was reasonable and the  
8 Company has responded by undertaking a thorough and detailed review of our  
9 Rate Book. Consistent with the 2014 Settlement, we propose formatting and  
10 language changes that will "improve readability, remove unnecessary phrases or  
11 sections, and ensure the terminology is up-to-date and understandable," as I  
12 described earlier.  
13

#### 14 **G. Rate Design Proposals**

##### 15 *1. Residential Controlled Air Conditioning and Water Heating Rider*

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

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

25 The current rate design provides a 15 percent discount on energy and fuel cost  
26 charges during the four summer-season months for controlled air-conditioning.  
27 If participating air-conditioning customers also have an electric water heater, an

1 additional 2 percent discount during every month is available for controlled  
2 water heating. This design was established when the base cost of fuel was  
3 included in energy rates. When all fuel costs were moved from base energy rates  
4 into a separate fuel cost charge in 2007, it became necessary to apply the percent  
5 discounts to both energy and fuel charges to retain the same discount amounts,  
6 increasing administrative complexity.

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

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

19  
20 Q. HOW DO CURRENT INCENTIVES FOR THE SAVER'S SWITCH PROGRAM COMPARE  
21 TO PROPOSED CREDITS?

22 A. In 2019, Active Saver's Switch program participants received an average annual  
23 credit of approximately \$53. Although the proposed \$40 annual credit is lower  
24 than the current credit, it is commonly used for comparable direct load control  
25 programs across the country and has been successfully used for years in our  
26 Colorado jurisdiction. Our higher energy use customers will see a steeper drop

1 in their incentive, but these customers may be better served under a different  
2 demand response program.

3  
4 Q. WHAT IS THE VALUE OF THE SAVER'S SWITCH PROGRAM?

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

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

23  
24 Q. WHAT IS THE EXPECTED IMPACT OF THE PROPOSED CHANGE TO THE  
25 INCENTIVE AMOUNT AND STRUCTURE FOR THE SAVER'S SWITCH PROGRAM?

1 A. Although we do not anticipate a loss of Saver’s Switch customers as a result of  
2 this incentive change, the final result is difficult to predict.<sup>1</sup> Some customers  
3 may find it helpful to have a defined fixed credit amount rather than a  
4 percentage discount, which may encourage customers who have resisted  
5 participation in the past. Customers with lower energy usage will also benefit  
6 from the proposed incentive design.

7  
8 *2. Real Time Pricing (RTP) Service*

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

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

14  
15 Q. WHY IS THE COMPANY PROPOSING TO CANCEL RTP SERVICE?

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

22  
23 Q. IS THE COMPANY UPDATING THE STRUCTURE OF CURRENT TIME OF DAY  
24 TARIFFS IN THIS RATE CASE?

---

<sup>1</sup> 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 A. No. However, the Company is set to begin piloting its three-period residential  
2 time-of-use (TOU) tariff in the Minnesota jurisdiction in the coming months.  
3 The Company has also proposed a three-period Commercial and Industrial  
4 TOU in Minnesota. On the new technology front, the Company has been  
5 piloting two residential electric vehicle (EV) tariffs (EV Home Service and EV  
6 Subscription Service) and has recently proposed the Multi-Dwelling Unit Pilot  
7 EV tariff in Minnesota. These EV tariffs leverage the new residential TOU rate  
8 design to provide customers the incentive to charge their EVs during off-peak  
9 periods when energy costs are lower. Once the pilots are complete and  
10 learnings can be applied to permanent programs, the Company plans to discuss  
11 interest in bringing forward similar proposals with North Dakota stakeholders.

12  
13 **V. CONCLUSION**

14  
15 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

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

20  
21 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

22 A. Yes, it does.

STATE OF NORTH DAKOTA  
BEFORE THE  
PUBLIC SERVICE COMMISSION

In the Matter of the Application of Northern )  
States Power Company, a Minnesota Corporation )  
For Authority to Increase Rates for Electric Service )  
in North Dakota )

Case No. PU-20-441  
OAH File No. 20200422

AFFIDAVIT OF  
Nicholas N. Paluck

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

*Nick Paluck*

Nicholas N. Paluck

Subscribed and sworn to before me, this 19 day of March, 2021.

*StD Spiess*

Notary Public

My Commission Expires:



Highlighted values have been revised.

## **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.

Highlighted values have been revised.

Service Schedule	Average Customers	MWH Sales			Test Year Revenue (\$1,000s)							
					Summer		Winter		Annual		Increase	
		Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
<b>Residential</b>												
Residential	80,905	228,169	547,327	775,496	27,709	30,223	55,617	60,858	83,326	91,080	7,755	9.31%
Residential TOD	39	571	1,282	1,853	69	75	124	135	193	210	16.73	8.66%
Load Management	398	636	1,225	1,860	78	84	142	152	220	236	15.14	6.87%
<b>Res Total</b>	<b>81,342</b>	<b>229,376</b>	<b>549,833</b>	<b>779,209</b>	<b>27,857</b>	<b>30,381</b>	<b>55,883</b>	<b>61,145</b>	<b>83,739</b>	<b>91,526</b>	<b>7,786</b>	<b>9.30%</b>
<b>C&amp;I - Non-Demand</b>												
Small General	7,965	27,042	68,899	95,941	3,384	3,482	7,242	7,480	10,626	10,962	335	3.16%
Small General TOD	733	1,073	2,520	3,593	173	178	336	346	508	525	16	3.21%
Load Management	87	188	1,877	2,065	17	18	128	135	145	152	7	4.88%
<b>C&amp;I N-D Total</b>	<b>8,784</b>	<b>28,303</b>	<b>73,295</b>	<b>101,599</b>	<b>3,574</b>	<b>3,678</b>	<b>7,706</b>	<b>7,961</b>	<b>11,280</b>	<b>11,639</b>	<b>359</b>	<b>3.18%</b>
<b>C&amp;I - Demand</b>												
General	3,688	214,812	434,282	649,094	23,139	25,376	40,597	44,805	63,736	70,180	6,445	10.11%
General TOD	207	72,686	136,713	209,399	6,324	6,862	10,617	11,563	16,941	18,425	1,484	8.76%
Peak-Controlled	45	8,595	19,891	28,487	877	976	1,861	2,069	2,738	3,045	307	11.21%
Peak-Controlled TOD	14	43,121	79,719	122,840	3,288	3,557	5,771	6,254	9,059	9,811	752	8.30%
Energy-Controlled	56	76,055	137,092	213,146	5,506	6,061	9,795	10,773	15,301	16,834	1,533	10.02%
Real Time Pricing	0	0	0	0	0	0	0	0	0	0	0	
<b>C&amp;I Dmd Total</b>	<b>4,010</b>	<b>415,269</b>	<b>807,698</b>	<b>1,222,966</b>	<b>39,134</b>	<b>42,831</b>	<b>68,640</b>	<b>75,464</b>	<b>107,774</b>	<b>118,295</b>	<b>10,521</b>	<b>9.76%</b>
<b>C&amp;I Total</b>	<b>12,795</b>	<b>443,572</b>	<b>880,993</b>	<b>1,324,565</b>	<b>42,708</b>	<b>46,509</b>	<b>76,346</b>	<b>83,425</b>	<b>119,054</b>	<b>129,934</b>	<b>10,880</b>	<b>9.14%</b>
<b>Public Authorities</b>												
Small Mun Pumping	67	254	650	904	32	32	67	69	99	102	3	3.20%
Municipal Pumping	90	5,166	8,707	13,873	593	651	865	958	1,457	1,609	151	10.37%
Siren Service	0	0	0	0	0	0	1	1	1	1	0	6.78%
<b>PA Total</b>	<b>157</b>	<b>5,420</b>	<b>9,357</b>	<b>14,777</b>	<b>624</b>	<b>684</b>	<b>933</b>	<b>1,028</b>	<b>1,557</b>	<b>1,712</b>	<b>154</b>	<b>9.92%</b>
<b>Lighting</b>												
System Service	0	226	637	863	176	211	357	425	533	636	103	19.32%
Energy	0	2,834	7,988	10,822	291	346	638	729	928	1,076	147	15.84%
Metered Energy	115	917	2,584	3,501	62	71	174	198	236	268	33	13.82%
Protective Lighting	0	726	2,023	2,748	118	137	250	282	368	419	51	13.75%
<b>Lighting Total</b>	<b>115</b>	<b>4,702</b>	<b>13,232</b>	<b>17,934</b>	<b>647</b>	<b>765</b>	<b>1,419</b>	<b>1,634</b>	<b>2,066</b>	<b>2,399</b>	<b>333</b>	<b>16.13%</b>
<b>Total Retail</b>	<b>94,409</b>	<b>683,069</b>	<b>1,453,415</b>	<b>2,136,485</b>	<b>71,836</b>	<b>78,338</b>	<b>134,580</b>	<b>147,232</b>	<b>206,416</b>	<b>225,570</b>	<b>19,154</b>	<b>9.28%</b>
Other Rev Increase					0	14	0	29	0	43	43	
Interdept. Increase												
<b>Total Revenue</b>	<b>94,409</b>	<b>683,069</b>	<b>1,453,415</b>	<b>2,136,485</b>	<b>71,836</b>	<b>78,352</b>	<b>134,580</b>	<b>147,261</b>	<b>206,416</b>	<b>225,613</b>	<b>19,197</b>	<b>9.30%</b>
Interdept Present												
<b>Retail + ID</b>	<b>94,409</b>	<b>683,069</b>	<b>1,453,415</b>	<b>2,136,485</b>	<b>71,836</b>	<b>78,352</b>	<b>134,580</b>	<b>147,261</b>	<b>206,416</b>	<b>225,613</b>	<b>19,197</b>	<b>9.30%</b>

**REVENUE BY MAJOR RATE CLASS BY REVENUE TYPE**

Highlighted values have been revised.

	Revenue (\$1,000s)							
	Total		Base		Fuel		Rider	
	Present	Final	Present	Final	Present	Final	Amount	Percent
Residential Regular	58,067	63,375	42,472	52,575	10,680	10,800	4,915	0
Res Space Heating	25,724	28,212	18,014	22,886	5,267	5,326	2,443	0
Total Residential	83,791	91,587	60,486	75,461	15,947	16,126	7,358	0
Small Comm. & Ind.	92,952	101,482	63,481	81,421	20,262	20,061	9,208	0
Large Comm. & Ind.	26,419	28,809	16,022	21,718	7,078	7,090	3,319	0
Total Comm. & Ind.	119,370	130,291	79,503	103,140	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	1,712	1,108	1,406	309	305	139	0
Total Retail	206,416	225,570	142,422	181,744	43,826	43,826	20,168	0
Other Revenues Incr.		43		43				
Interdept Rev Incr		0		0		0		0
Retail + Increases	206,416	225,613	142,422	181,787	43,826	43,826	20,168	0
Interdept Present Rev.	0	0	0	0	0	0	0	0
Retail + Interdept	206,416	225,613	142,422	181,787	43,826	43,826	20,168	0

	Revenue Increase							
	Total		Base		Fuel		Rider	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Residential Regular	5,308	9.14%	10,103	23.79%	120	1.12%	-4,915	-100.0%
Res Space Heating	2,488	9.67%	4,872	27.04%	59	1.12%	-2,443	-100.0%
Total Residential	7,796	9.30%	14,975	24.76%	179	1.12%	-7,358	-100.0%
Small Comm. & Ind.	8,531	9.18%	17,941	28.26%	-202	-0.99%	-9,208	-100.0%
Large Comm. & Ind.	2,390	9.05%	5,696	35.55%	12	0.17%	-3,319	-100.0%
Total Comm. & Ind.	10,921	9.15%	23,637	29.73%	-189	-0.69%	-12,527	-100.0%
Street Lighting	283	16.65%	412	31.06%	14	6.29%	-143	-100.0%
Public Authorities	154	9.92%	298	26.89%	-4	-1.30%	-139	-100.0%
Total Retail	19,154	9.28%	39,322	27.61%	0	0.00%	-20,168	-100.0%
Other Revenues Incr.	43		43		0		0	
Interdept Rev Incr	0		0		0		0	
Retail + Increases	19,197	9.30%	39,365	27.64%	0	0.00%	-20,168	-100.0%
Interdept Present Rev.	0		0		0		0	
Retail + Interdept	19,197	9.30%	39,365	27.64%	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	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Annual	Summer	Winter	Annual		
Charge	Unts	Smr	Wtr	Ann	P1S	P1W	P2S	P2W	R1S	R1W	R1A	R2S	R2W	R2A	IncA	PctA
<b>D01 Res OH ResReg Secondary</b>																
Cust Chg	Bills	195,452	390,923	586,375	\$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	394,313	\$73.39	\$57.59	\$91.51	\$75.51	9,892	14,946	24,838	12,334	19,597	31,931	7,093	28.6%
SvrSwchAC	MWH	31,844	0	31,844	-\$14.20	\$0.00	-\$10.00	\$0.00	-452	0	-452	-311	0	-311	142	-31.3%
SvrSwchWH	MWH	5,309	10,609	15,918	-\$1.89	-\$1.55	-\$2.00	-\$2.00	-10	-16	-27	-9	-20	-29	-2	9.3%
Fuel Cost	MWH	134,784	259,529	394,313	\$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	394,313	\$9.44	\$9.44	\$0.00	\$0.00	1,272	2,450	3,722	0	0	0	-3,722	
<b>Total:</b>									16,400	28,273	44,673	17,891	30,823	48,713	4,040	9.0%
<b>D01 Res OH ResSH Secondary</b>																
Cust Chg	Bills	78,126	156,169	234,295	\$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	212,022	\$73.39	\$50.64	\$91.51	\$68.51	3,095	8,601	11,696	3,860	11,636	15,496	3,799	32.5%
SvrSwchAC	MWH	4,690	0	4,690	-\$14.20	\$0.00	-\$10.00	\$0.00	-67	0	-67	-43	0	-43	23	-35.2%
SvrSwchWH	MWH	1,731	7,785	9,517	-\$1.89	-\$1.42	-\$2.00	-\$2.00	-3	-11	-14	-3	-7	-11	4	-25.8%
Fuel Cost	MWH	42,177	169,845	212,022	\$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	212,022	\$9.44	\$9.44	\$0.00	\$0.00	398	1,603	2,001	0	0	0	-2,001	
<b>Total:</b>									5,453	15,877	21,330	5,911	17,468	23,379	2,049	9.6%
<b>D03 Res UG ResReg Secondary</b>																
Cust Chg	Bills	39,697	79,399	119,096	\$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	122,870	\$73.39	\$57.59	\$91.51	\$75.51	3,082	4,657	7,740	3,843	6,107	9,950	2,210	28.6%
SvrSwchAC	MWH	11,830	0	11,830	-\$14.20	\$0.00	-\$10.00	\$0.00	-168	0	-168	-105	0	-105	63	-37.3%
SvrSwchWH	MWH	1,819	3,432	5,251	-\$1.89	-\$1.55	-\$2.00	-\$2.00	-3	-5	-9	-3	-6	-9	-1	6.2%
Fuel Cost	MWH	42,000	80,871	122,870	\$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	122,870	\$9.44	\$9.44	\$0.00	\$0.00	396	763	1,160	0	0	0	-1,160	
<b>Total:</b>									4,775	8,195	12,970	5,243	8,958	14,200	1,230	9.5%
<b>D03 Res UG ResSH Secondary</b>																
Cust Chg	Bills	10,369	20,727	31,096	\$14.50	\$14.50	\$15.25	\$15.25	150	301	451	158	316	474	23	5.2%
Energy	MWH	9,208	37,082	46,290	\$73.39	\$50.64	\$91.51	\$68.51	676	1,878	2,554	843	2,540	3,383	830	32.5%
SvrSwchAC	MWH	1,854	0	1,854	-\$14.20	\$0.00	-\$10.00	\$0.00	-26	0	-26	-19	0	-19	7	-28.3%
SvrSwchWH	MWH	549	2,223	2,772	-\$1.89	-\$1.42	-\$2.00	-\$2.00	-1	-3	-4	-1	-2	-3	1	-22.8%
Fuel Cost	MWH	9,208	37,082	46,290	\$21.25	\$20.13	\$21.49	\$20.36	196	747	942	198	755	953	11	1.1%
Riders	MWH	9,208	37,082	46,290	\$9.44	\$9.44	\$0.00	\$0.00	87	350	437	0	0	0	-437	
<b>Total:</b>									1,081	3,272	4,353	1,179	3,609	4,788	435	10.0%

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D02 Res TOD OH ResReg Secondary</b>																
Cust Chg	Bills	60	120	180	\$16.50	\$16.50	\$17.25	\$17.25	1	2	3	1	2	3	0	4.5%
Energy	On MWH	239	456	696	\$153.40	\$111.15	\$172.44	\$129.69	37	51	87	41	59	100	13	14.9%
Energy	Off MWH	226	432	658	\$25.59	\$25.59	\$43.10	\$43.10	6	11	17	10	19	28	12	68.4%
Fuel Cost	MWH	466	888	1,354	\$21.25	\$20.13	\$21.49	\$20.36	10	18	28	10	18	28	0	1.1%
Riders	MWH	466	888	1,354	\$9.44	\$9.44	\$0.00	\$0.00	4	8	13	0	0	0	-13	
<b>Total:</b>									58	90	148	62	98	160	12	8.3%
<b>D02 Res TOD OH ResSH Secondary</b>																
Cust Chg	Bills	64	128	192	\$16.50	\$16.50	\$17.25	\$17.25	1	2	3	1	2	3	0	4.5%
Energy	On MWH	24	95	119	\$153.40	\$95.96	\$172.44	\$114.37	4	9	13	4	11	15	2	17.3%
Energy	Off MWH	53	212	264	\$25.59	\$25.59	\$43.10	\$43.10	1	5	7	2	9	11	5	68.4%
Fuel Cost	MWH	76	307	383	\$21.25	\$20.13	\$21.49	\$20.36	2	6	8	2	6	8	0	1.1%
Riders	MWH	76	307	383	\$9.44	\$9.44	\$0.00	\$0.00	1	3	4	0	0	0	-4	
<b>Total:</b>									8	26	34	9	28	38	3	10.1%
<b>D04 Res TOD UG ResReg Secondary</b>																
Cust Chg	Bills	16	32	48	\$16.50	\$16.50	\$17.25	\$17.25	0.26	0.53	0.79	0.28	0.55	0.83	0.04	4.5%
Energy	On MWH	4	7	11	\$153.40	\$111.15	\$172.44	\$129.69	0.60	0.83	1.43	0.67	0.97	1.64	0.21	14.9%
Energy	Off MWH	10	20	30	\$25.59	\$25.59	\$43.10	\$43.10	0.26	0.51	0.77	0.44	0.85	1.29	0.53	68.4%
Fuel Cost	MWH	14	27	41	\$21.25	\$20.13	\$21.49	\$20.36	0.30	0.55	0.85	0.30	0.55	0.86	0.01	1.1%
Riders	MWH	14	27	41	\$9.44	\$9.44	\$0.00	\$0.00	0.13	0.26	0.39	0.00	0.00	0.00	-0.39	
<b>Total:</b>									1.56	2.67	4.23	1.69	2.93	4.62	0.39	9.3%
<b>D04 Res TOD UG ResSH Secondary</b>																
Cust Chg	Bills	16	32	48	\$16.50	\$16.50	\$17.25	\$17.25	0.26	0.53	0.79	0.28	0.55	0.83	0.04	4.5%
Energy	On MWH	5	19	24	\$153.40	\$95.96	\$172.44	\$114.37	0.73	1.85	2.59	0.83	2.21	3.03	0.45	17.3%
Energy	Off MWH	10	40	50	\$25.59	\$25.59	\$43.10	\$43.10	0.26	1.03	1.29	0.43	1.74	2.17	0.88	68.4%
Fuel Cost	MWH	15	60	74	\$21.25	\$20.13	\$21.49	\$20.36	0.31	1.20	1.52	0.32	1.21	1.53	0.02	1.1%
Riders	MWH	15	60	74	\$9.44	\$9.44	\$0.00	\$0.00	0.14	0.56	0.70	0.00	0.00	0.00	-0.70	
<b>Total:</b>									1.71	5.18	6.88	1.85	5.71	7.56	0.68	9.9%
<b>D05 EnergyCtrl N/D ResReg Secondary</b>																
Cust Chg	Bills	1,176	2,347	3,523	\$4.80	\$4.80	\$5.25	\$5.25	6	11	17	6	12	18	2	9.4%
Energy	MWH	433	852	1,285	\$40.44	\$40.44	\$52.05	\$52.05	18	34	52	23	44	67	15	28.7%
Opt Energy	MWH	108	188	296	\$73.39	\$40.44	\$91.51	\$52.05	8	8	16	10	10	20	4	26.7%
Fuel Cost	MWH	540	1,040	1,581	\$21.25	\$20.13	\$21.49	\$20.36	11	21	32	12	21	33	0	1.1%
Riders	MWH	540	1,040	1,581	\$9.44	\$9.44	\$0.00	\$0.00	5	10	15	0	0	0	-15	
<b>Total:</b>									48	84	132	50	88	138	6	4.6%





Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D10 Limited Off-Peak Sm C&amp;I Secondary</b>																
Cust Chg	Bills	91	182	273	\$4.80	\$4.80	\$5.25	\$5.25	0	1	1	0	1	1	0	9.4%
Cust Chg	Bills	43	87	130	\$6.80	\$6.80	\$7.50	\$7.50	0	1	1	0	1	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	0.0%
Energy	On MWH	0	0	0	\$270.00	\$270.00	\$310.00	\$310.00	0	0	0	0	0	0	0	0.0%
Energy	Off1S MWH	35	395	430	\$24.37	\$24.37	\$41.30	\$41.30	1	10	10	1	16	18	7	69.5%
Energy	Off3S MWH	3	99	101	\$24.37	\$24.37	\$41.30	\$41.30	0	2	2	0	4	4	2	69.5%
Energy	OffP MWH	0	0	0	\$23.27	\$23.27	\$40.30	\$40.30	0	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	11	0	-2.0%
Riders	MWH	38	494	532	\$9.44	\$9.44	\$0.00	\$0.00	0	5	5	0	0	0	-5	
<b>Total:</b>									3	28	31	3	32	35	4	12.7%
<b>D12 SmallGen Sm C&amp;I Secondary</b>																
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	\$88.60	\$72.62	2,031	4,087	6,118	2,396	5,003	7,399	1,281	20.9%
SvrSwchAC	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	
<b>Total:</b>									3,384	7,242	10,626	3,482	7,480	10,962	335	3.2%
<b>D40 Small Mun Pumping Public Auth Secondary</b>																
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	\$88.60	\$72.62	19	39	58	22	47	70	12	20.9%
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	
<b>Total:</b>									32	67	99	32	69	102	3	3.2%
<b>D14 SmallGen TOD Sm C&amp;I Secondary</b>																
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	\$143.99	\$108.55	65	109	174	71	121	193	18	10.5%
Energy	Off MWH	386	1,013	1,399	\$25.59	\$25.59	\$43.10	\$43.10	10	26	36	17	44	60	24	68.4%
SvrSwchAC	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	
<b>Total:</b>									134	263	396	138	271	409	13	3.3%

**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	Annual	Summer	Winter	Annual		
<b>D18 SGS TOD kWh Mtr Sm C&amp;I Secondary</b>																
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	2	1	2	3	0	3.2%
Energy	MWH	193	388	581	\$62.67	\$50.84	\$78.41	\$66.01	12	20	32	15	26	41	9	28.0%
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	
<b>Total:</b>									39	73	112	40	75	115	3	2.9%
<b>D16 General Sm C&amp;I Secondary</b>																
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	\$45.58	\$45.58	6,327	12,893	19,220	9,126	18,598	27,724	8,504	44.2%
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%
SvrSwchAC	Tons	21,835	0	21,835	-\$5.00	\$0.00	-\$5.00	\$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	\$16.10	\$11.75	9,158	12,560	21,717	10,420	14,832	25,251	3,534	16.3%
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	
<b>Total:</b>									21,724	38,340	60,064	23,828	42,319	66,147	6,082	10.1%
<b>D16 General Lg C&amp;I Secondary</b>																
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	\$45.58	\$45.58	369	672	1,040	532	969	1,501	460	44.2%
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%
SvrSwchAC	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	\$16.10	\$11.75	437	557	994	498	658	1,155	161	16.2%
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	
<b>Total:</b>									1,150	1,860	3,010	1,258	2,049	3,307	297	9.9%
<b>D41 Municipal Pumping Public Auth Secondary</b>																
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	\$45.58	\$45.58	163	275	438	235	397	632	194	44.2%
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	\$16.10	\$11.75	268	314	582	305	371	676	94	16.1%
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	
<b>Total:</b>									593	865	1,457	651	958	1,609	151	10.4%



**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	Annual	Summer	Winter	Annual			
<b>D17 General TOD Sm C&amp;I Secondary</b>																	
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	MWH	13,302	25,224	38,526	\$42.56	\$42.56	\$61.68	\$61.68	566	1,074	1,640	820	1,556	2,376	737	44.9%
Energy	Off	MWH	21,670	43,215	64,884	\$23.39	\$23.39	\$32.81	\$32.81	507	1,011	1,518	711	1,418	2,129	611	40.3%
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%
SvrSwchAC		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	\$16.10	\$11.75	1,101	1,477	2,579	1,253	1,745	2,998	419	16.3%
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	MWH	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	MWH	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	
Riders		MWH	34,972	68,438	103,410	\$9.44	\$9.44	\$0.00	\$0.00	330	646	976	0	0	0	-976	
<b>Total:</b>									3,170	5,511	8,681	3,442	6,007	9,450	769	8.9%	
<b>D17 General TOD Lg C&amp;I Secondary</b>																	
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	MWH	8,516	15,522	24,037	\$42.56	\$42.56	\$61.68	\$61.68	362	661	1,023	525	957	1,483	460	44.9%
Energy	Off	MWH	13,017	23,727	36,743	\$23.39	\$23.39	\$32.81	\$32.81	304	555	859	427	778	1,206	346	40.3%
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%
SvrSwchAC		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	\$16.10	\$11.75	615	741	1,356	700	875	1,574	219	16.1%
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	MWH	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	MWH	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	
Riders		MWH	21,532	39,248	60,781	\$9.44	\$9.44	\$0.00	\$0.00	203	370	574	0	0	0	-574	
<b>Total:</b>									1,882	3,036	4,917	2,041	3,303	5,345	427	8.7%	

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D17 General TOD Sm C&amp;I Primary</b>																
Cust Chg	Bills	16	32	48	\$28.74	\$28.74	\$29.10	\$29.10	0	1	1	0	1	1	0	1.3%
Energy	On MWH	818	1,289	2,107	\$41.46	\$41.46	\$60.68	\$60.68	34	53	87	50	78	128	40	46.4%
Energy	Off MWH	1,320	2,137	3,457	\$22.29	\$22.29	\$31.81	\$31.81	29	48	77	42	68	110	33	42.7%
Energy Cr	MWH	450	664	1,114	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-5	-7	-12	-6	-8	-14	-2	19.0%
SvrSwchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0	0.0%
Demand	KW	4,352	6,929	11,281	\$13.55	\$9.35	\$15.60	\$11.25	59	65	124	68	78	146	22	17.8%
Off Dmd	KW	37	19	56	\$0.90	\$0.90	\$1.60	\$1.60	0	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	32	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	37	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	
<b>Total:</b>									181	261	442	198	286	483	41	9.3%
<b>D17 General TOD Lg C&amp;I Primary</b>																
Cust Chg	Bills	12	24	36	\$28.74	\$28.74	\$29.10	\$29.10	0	1	1	0	1	1	0	1.3%
Energy	MWH	4,864	8,865	13,728	\$41.46	\$41.46	\$60.68	\$60.68	202	368	569	295	538	833	264	46.4%
Energy	On MWH	9,181	16,735	25,916	\$22.29	\$22.29	\$31.81	\$31.81	205	373	578	292	532	824	247	42.7%
Energy Cr	Off MWH	4,063	7,151	11,214	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-43	-75	-118	-51	-89	-140	-22	19.0%
SvrSwchAC	Tons	0	0	0	-\$5.00	\$0.00	-\$5.00	\$0.00	0	0	0	0	0	0	0	0.0%
Demand	KW	23,333	42,186	65,519	\$13.55	\$9.35	\$15.60	\$11.25	316	394	711	364	475	839	128	18.0%
Off Dmd	KW	165	157	323	\$0.90	\$0.90	\$1.60	\$1.60	0	0	0	0	0	1	0	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	446	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	
<b>Total:</b>									1,091	1,809	2,900	1,181	1,966	3,147	247	8.5%

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual			
<b>D20 Peak-Ctrl Tier Sm C&amp;I Secondary</b>																	
Cust Chg	Bills	176	353	529	\$56.50	\$56.50	\$58.00	\$58.00	10	20	30	10	20	31	1	2.7%	
Energy	MWH	7,774	18,265	26,039	\$31.60	\$31.60	\$45.58	\$45.58	246	577	823	354	833	1,187	364	44.2%	
Energy Cr	MWH	23	178	202	-\$10.50	-\$10.50	-\$12.50	-\$12.50	0	-2	-2	0	-2	-3	0	19.0%	
Demand	KW	7,990	16,878	24,869	\$14.15	\$9.95	\$16.10	\$11.75	113	168	281	129	198	327	46	16.4%	
Control Dmd	2A	KW	10,363	24,064	34,427	\$8.26	\$8.26	\$9.93	\$9.93	86	199	284	103	239	342	57	20.2%
Control Dmd	2B	KW	13,304	24,455	37,759	\$7.57	\$7.57	\$9.19	\$9.19	101	185	286	122	225	347	61	21.4%
Control Dmd	2C	KW	945	1,747	2,692	\$7.11	\$7.11	\$8.70	\$8.70	7	12	19	8	15	23	4	22.4%
Control Dmd	1A	KW	0	0	0	\$7.69	\$7.69	\$9.33	\$9.33	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	0	0	0	\$6.90	\$6.90	\$8.47	\$8.47	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	KW	474	834	1,308	\$6.34	\$6.34	\$7.87	\$7.87	3	5	8	4	7	10	2	24.1%
Fuel Cost	MWH	7,774	18,265	26,039	\$20.93	\$20.93	\$20.67	\$20.67	163	382	545	161	377	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	0	0	
Riders	MWH	7,774	18,265	26,039	\$9.44	\$9.44	\$0.00	\$0.00	73	172	246	0	0	0	-246		
<b>Total:</b>									801	1,720	2,520	891	1,912	2,803	283	11.2%	
<b>D20 Peak-Ctrl Tier Sm C&amp;I Primary</b>																	
Cust Chg	Bills	4	8	12	\$56.50	\$56.50	\$58.00	\$58.00	0	0	1	0	0	1	0	2.7%	
Energy	MWH	822	1,626	2,448	\$30.50	\$30.50	\$44.58	\$44.58	25	50	75	37	73	109	34	46.2%	
Energy Cr	MWH	0	0	0	-\$10.50	-\$10.50	-\$12.50	-\$12.50	0	0	0	0	0	0	0	0.0%	
Demand	KW	1,368	2,694	4,061	\$13.55	\$9.35	\$15.60	\$11.25	19	25	44	21	30	52	8	18.1%	
Control Dmd	2A	KW	1,029	2,158	3,187	\$7.66	\$7.66	\$9.43	\$9.43	8	17	24	10	20	30	6	23.1%
Control Dmd	2B	KW	0	0	0	\$6.97	\$6.97	\$8.69	\$8.69	0	0	0	0	0	0	0	0.0%
Control Dmd	2C	KW	0	0	0	\$6.51	\$6.51	\$8.20	\$8.20	0	0	0	0	0	0	0	0.0%
Control Dmd	1A	KW	0	0	0	\$7.09	\$7.09	\$8.83	\$8.83	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	0	0	0	\$6.30	\$6.30	\$7.97	\$7.97	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	KW	0	0	0	\$5.74	\$5.74	\$7.37	\$7.37	0	0	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	17	34	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	0	0	
Riders	MWH	822	1,626	2,448	\$9.44	\$9.44	\$0.00	\$0.00	8	15	23	0	0	0	-23		
<b>Total:</b>									77	141	218	85	157	242	24	11.2%	

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual			
<b>D21 Peak-Ctrl Tier TOD Sm C&amp;I Secondary</b>																	
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	MWH	1,030	1,862	2,892	\$42.56	\$42.56	\$61.68	\$61.68	44	79	123	64	115	178	55	44.9%
Energy	Off	MWH	1,352	2,676	4,027	\$23.39	\$23.39	\$32.81	\$32.81	32	63	94	44	88	132	38	40.3%
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	\$16.10	\$11.75	50	62	112	56	74	130	18	16.2%
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	KW	2,604	3,818	6,422	\$8.26	\$8.26	\$9.93	\$9.93	22	32	53	26	38	64	11	20.2%
Control Dmd	2B	KW	877	1,822	2,699	\$7.57	\$7.57	\$9.19	\$9.19	7	14	20	8	17	25	4	21.4%
Control Dmd	2C	KW	461	798	1,259	\$7.11	\$7.11	\$8.70	\$8.70	3	6	9	4	7	11	2	22.4%
Control Dmd	1A	KW	0	0	0	\$7.69	\$7.69	\$9.33	\$9.33	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	0	0	0	\$6.90	\$6.90	\$8.47	\$8.47	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	KW	0	0	0	\$6.34	\$6.34	\$7.87	\$7.87	0	0	0	0	0	0	0	0.0%
Fuel Cost	On	MWH	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	MWH	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	
Riders		MWH	2,382	4,538	6,920	\$9.44	\$9.44	\$0.00	\$0.00	22	43	65	0	0	0	-65	
<b>Total:</b>										229	393	622	252	433	685	63	10.1%
<b>D21 Peak-Ctrl Tier TOD Lg C&amp;I Secondary</b>																	
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	13,915	25,363	39,278	\$42.56	\$42.56	\$61.68	\$61.68	592	1,079	1,672	858	1,564	2,423	751	44.9%
Energy	Off	MWH	26,743	48,745	75,488	\$23.39	\$23.39	\$32.81	\$32.81	626	1,140	1,766	877	1,599	2,477	711	40.3%
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	\$16.10	\$11.75	485	652	1,137	551	770	1,322	185	16.3%
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	KW	0	0	0	\$8.26	\$8.26	\$9.93	\$9.93	0	0	0	0	0	0	0	0.0%
Control Dmd	2B	KW	16,508	31,858	48,365	\$7.57	\$7.57	\$9.19	\$9.19	125	241	366	152	293	444	78	21.4%
Control Dmd	2C	KW	20,284	32,618	52,901	\$7.11	\$7.11	\$8.70	\$8.70	144	232	376	176	284	460	84	22.4%
Control Dmd	1A	KW	0	0	0	\$7.69	\$7.69	\$9.33	\$9.33	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	0	0	0	\$6.90	\$6.90	\$8.47	\$8.47	0	0	0	0	0	0	0	0.0%
Control Dmd	1C	KW	0	0	0	\$6.34	\$6.34	\$7.87	\$7.87	0	0	0	0	0	0	0	0.0%
Fuel Cost	On	MWH	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	MWH	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	
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	
<b>Total:</b>										3,041	5,293	8,335	3,284	5,728	9,013	678	8.1%







Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual			
<b>D22 Energy-Control Rider Sm C&amp;I Secondary</b>																	
Cust Chg	Bills	200	400	600	\$56.50	\$56.50	\$58.00	\$58.00	11	23	34	12	23	35	1	2.7%	
Energy	On	MWH	1,520	2,579	4,099	\$42.56	\$42.56	\$61.68	\$61.68	65	110	174	94	159	253	78	44.9%
Energy	OnC	MWH	14,369	25,043	39,412	\$40.26	\$40.26	\$59.48	\$59.48	578	1,008	1,587	855	1,490	2,344	758	47.7%
Energy	Off	MWH	2,440	4,249	6,690	\$23.39	\$23.39	\$32.81	\$32.81	57	99	156	80	139	219	63	40.3%
Energy	OffC	MWH	20,412	37,247	57,659	\$22.34	\$22.34	\$31.81	\$31.81	456	832	1,288	649	1,185	1,834	546	42.4%
Energy Cr		MWH	5,025	10,284	15,309	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-53	-108	-161	-63	-129	-191	-31	19.0%
Demand		KW	3,372	5,762	9,134	\$14.15	\$9.95	\$16.10	\$11.75	48	57	105	54	68	122	17	16.1%
Off Dmd		KW	883	2,048	2,931	\$1.50	\$1.50	\$2.10	\$2.10	1	3	4	2	4	6	2	40.0%
Control Dmd	1A	KW	1,165	12,465	13,630	\$7.69	\$7.69	\$9.33	\$9.33	9	96	105	11	116	127	22	21.3%
Control Dmd	1B	KW	24,341	44,434	68,775	\$6.90	\$6.90	\$8.47	\$8.47	168	307	475	206	376	583	108	22.8%
Control Dmd	1C	KW	61,184	92,468	153,653	\$6.34	\$6.34	\$7.87	\$7.87	388	586	974	482	728	1,209	235	24.1%
AnnMinDmd		KW	416	833	1,249	\$1.00	\$1.00	\$1.21	\$1.21	0	1	1	1	1	2	0	21.0%
Fuel Cost	On	MWH	15,889	27,622	43,511	\$26.30	\$26.30	\$25.00	\$25.00	418	727	1,144	397	691	1,088	-57	-4.9%
Fuel Cost	Off	MWH	22,852	41,496	64,348	\$16.35	\$16.35	\$17.23	\$17.23	374	678	1,052	394	715	1,108	56	5.4%
Riders		KW	90,946	157,177	248,123	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders		MWH	38,741	69,119	107,860	\$9.44	\$9.44	\$0.00	\$0.00	366	652	1,018	0	0	0	-1,018	
<b>Total:</b>										2,886	5,071	7,958	3,173	5,566	8,739	781	9.8%
<b>D22 Energy-Control Rider Lg C&amp;I Secondary</b>																	
Cust Chg	Bills	0	0	0	\$56.50	\$56.50	\$58.00	\$58.00	0	0	0	0	0	0	0	0	0.0%
Energy	On	MWH	0	0	0	\$42.56	\$42.56	\$61.68	\$61.68	0	0	0	0	0	0	0	0.0%
Energy	OnC	MWH	1,834	3,343	5,177	\$40.26	\$40.26	\$59.48	\$59.48	74	135	208	109	199	308	100	47.7%
Energy	Off	MWH	0	0	0	\$23.39	\$23.39	\$32.81	\$32.81	0	0	0	0	0	0	0	0.0%
Energy	OffC	MWH	2,214	4,036	6,250	\$22.34	\$22.34	\$31.81	\$31.81	49	90	140	70	128	199	59	42.4%
Energy Cr		MWH	314	799	1,113	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-3	-8	-12	-4	-10	-14	-2	19.0%
Demand		KW	0	0	0	\$14.15	\$9.95	\$16.10	\$11.75	0	0	0	0	0	0	0	0.0%
Off Dmd		KW	137	638	775	\$1.50	\$1.50	\$2.10	\$2.10	0	1	1	0	1	2	0	40.0%
Control Dmd	1A	KW	0	0	0	\$7.69	\$7.69	\$9.33	\$9.33	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	1,497	2,874	4,371	\$6.90	\$6.90	\$8.47	\$8.47	10	20	30	13	24	37	7	22.8%
Control Dmd	1C	KW	10,116	17,209	27,325	\$6.34	\$6.34	\$7.87	\$7.87	64	109	173	80	135	215	42	24.1%
AnnMinDmd		KW	3,321	6,642	9,963	\$1.00	\$1.00	\$1.21	\$1.21	3	7	10	4	8	12	2	21.0%
Fuel Cost	On	MWH	1,834	3,343	5,177	\$26.30	\$26.30	\$25.00	\$25.00	48	88	136	46	84	129	-7	-4.9%
Fuel Cost	Off	MWH	2,214	4,036	6,250	\$16.35	\$16.35	\$17.23	\$17.23	36	66	102	38	70	108	5	5.4%
Riders		KW	11,750	20,721	32,471	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders		MWH	4,048	7,379	11,427	\$9.44	\$9.44	\$0.00	\$0.00	38	70	108	0	0	0	-108	
<b>Total:</b>										321	576	897	356	639	996	99	11.0%

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D22 Energy-Control Rider Sm C&amp;I Primary</b>																
Cust Chg	Bills	8	16	24	\$56.50	\$56.50	\$58.00	\$58.00	0	1	1	0	1	1	0	2.7%
Energy	On MWH	0	0	0	\$41.46	\$41.46	\$60.68	\$60.68	0	0	0	0	0	0	0	0.0%
Energy	OnC MWH	865	1,503	2,368	\$39.16	\$39.16	\$58.48	\$58.48	34	59	93	51	88	139	46	49.3%
Energy	Off MWH	0	0	0	\$22.29	\$22.29	\$31.81	\$31.81	0	0	0	0	0	0	0	0.0%
Energy	OffC MWH	1,276	2,361	3,637	\$21.24	\$21.24	\$30.81	\$30.81	27	50	77	39	73	112	35	45.1%
Energy Cr	MWH	354	857	1,212	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-4	-9	-13	-4	-11	-15	-2	19.0%
Demand	KW	0	0	0	\$13.55	\$9.35	\$15.60	\$11.25	0	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	0	77.8%
Control Dmd	1A KW	0	0	0	\$7.09	\$7.09	\$8.83	\$8.83	0	0	0	0	0	0	0	0.0%
Control Dmd	1B KW	1,521	2,886	4,407	\$6.30	\$6.30	\$7.97	\$7.97	10	18	28	12	23	35	7	26.5%
Control Dmd	1C KW	3,250	4,834	8,084	\$5.74	\$5.74	\$7.37	\$7.37	19	28	46	24	36	60	13	28.4%
Fuel Cost	On MWH	865	1,503	2,368	\$26.30	\$26.30	\$25.00	\$25.00	23	40	62	22	38	59	-3	-4.9%
Fuel Cost	Off MWH	1,276	2,361	3,637	\$16.35	\$16.35	\$17.23	\$17.23	21	39	59	22	41	63	3	5.4%
Riders	KW	4,771	7,726	12,496	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	2,141	3,864	6,006	\$9.44	\$9.44	\$0.00	\$0.00	20	36	57	0	0	0	-57	
<b>Total:</b>									150	261	411	166	288	453	42	10.2%
<b>D22 Energy-Control Rider Lg C&amp;I Primary</b>																
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	\$60.68	\$60.68	25	45	70	36	66	103	33	46.4%
Energy	OnC MWH	11,603	21,149	32,752	\$39.16	\$39.16	\$58.48	\$58.48	454	828	1,283	679	1,237	1,915	633	49.3%
Energy	Off MWH	1,096	1,999	3,095	\$22.29	\$22.29	\$31.81	\$31.81	24	45	69	35	64	98	29	42.7%
Energy	OffC MWH	17,825	32,489	50,314	\$21.24	\$21.24	\$30.81	\$30.81	379	690	1,069	549	1,001	1,550	482	45.1%
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	\$15.60	\$11.25	34	30	64	39	37	75	11	17.6%
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	\$8.83	\$8.83	135	236	371	168	293	462	91	24.5%
Control Dmd	1B KW	0	0	0	\$6.30	\$6.30	\$7.97	\$7.97	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	41,448	79,111	120,558	\$5.74	\$5.74	\$7.37	\$7.37	238	454	692	305	583	889	197	28.4%
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	
Riders	MWH	31,124	56,730	87,854	\$9.44	\$9.44	\$0.00	\$0.00	294	536	829	0	0	0	-829	
<b>Total:</b>									2,149	3,885	6,035	2,366	4,280	6,646	611	10.1%
<b>D42 Siren Service Public Auth Secondary</b>																
HP	HP	582	1,164	1,745	\$0.59	\$0.59	\$0.63	\$0.63	0	1	1	0	1	1	0	6.8%
<b>Total:</b>									0	1	1	0	1	1	0	6.8%

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D11 Protective Ltg ResReg Secondary</b>																
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	1	2	3	0	0	0	-3	
<b>Total:</b>									17	34	52	21	41	61	10	18.6%
<b>D11 Protective Ltg Sm C&amp;I Secondary</b>																
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	
<b>Total:</b>									101	216	316	116	241	357	41	12.9%

Highlighted values have been revised.

**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	Annual	Summer	Winter	Annual		
<b>D30 St Ltg System Lighting Secondary</b>																
OH100S	Lts	592	1,184	1,776	\$10.80	\$10.80	\$13.52	\$13.52	6	13	19	8	16	24	5	25.2%
OH150S	Lts	64	128	192	\$11.89	\$11.89	\$14.61	\$14.61	1	2	2	1	2	3	1	22.9%
OH250S	Lts	24	48	72	\$15.02	\$15.02	\$17.71	\$17.71	0	1	1	0	1	1	0	17.9%
OH400S	Lts	0	0	0	\$18.01	\$18.01	\$20.67	\$20.67	0	0	0	0	0	0	0	0.0%
OH39LED	Lts	7,113	14,227	21,340	\$10.99	\$10.99	\$13.71	\$13.71	78	156	235	98	195	293	58	24.7%
OH65LED	Lts	3,684	7,368	11,052	\$11.98	\$11.98	\$14.70	\$14.70	44	88	132	54	108	162	30	22.7%
OH155LED	Lts	473	947	1,420	\$15.66	\$15.66	\$18.35	\$18.35	7	15	22	9	17	26	4	17.2%
OH245LED	Lts	12	24	36	\$19.22	\$19.22	\$21.88	\$21.88	0	0	1	0	1	1	0	13.8%
UG100S	Lts	882	1,764	2,646	\$20.83	\$20.83	\$23.55	\$23.55	18	37	55	21	42	62	7	13.1%
UG150S	Lts	64	128	192	\$21.98	\$21.98	\$24.70	\$24.70	1	3	4	2	3	5	1	12.4%
UG39LED	Lts	176	351	527	\$21.02	\$21.02	\$23.74	\$23.74	4	7	11	4	8	13	1	12.9%
UG65LED	Lts	440	879	1,319	\$22.07	\$22.07	\$24.79	\$24.79	10	19	29	11	22	33	4	12.3%
Dec100S	Lts	0	0	0	\$33.26	\$33.26	\$35.96	\$35.96	0	0	0	0	0	0	0	0.0%
Dec150S	Lts	0	0	0	\$34.40	\$34.40	\$37.08	\$37.08	0	0	0	0	0	0	0	0.0%
Dec250S	Lts	0	0	0	\$36.94	\$36.94	\$39.58	\$39.58	0	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	226	637	863	\$15.09	\$15.09	\$16.04	\$16.04	3	10	13	4	10	14	1	6.3%
Riders	MWH	226	637	863	\$9.44	\$9.44	\$0.00	\$0.00	2	6	8	0	0	0	-8	
<b>Total:</b>									176	357	533	211	425	636	103	19.3%
<b>D31 St Ltg Purchased Lighting Secondary</b>																
70S	Lts	458	916	1,374	\$2.93	\$2.93	\$3.82	\$3.82	1	3	4	2	3	5	1	30.4%
100S	Lts	12,704	25,408	38,112	\$3.44	\$3.44	\$4.55	\$4.55	44	87	131	58	116	173	42	32.3%
150S	Lts	8,028	16,056	24,084	\$4.21	\$4.21	\$5.64	\$5.64	34	68	101	45	91	136	34	34.0%
200S	Lts	323	646	969	\$5.14	\$5.14	\$6.98	\$6.98	2	3	5	2	5	7	2	35.8%
250S	Lts	11,023	22,047	33,070	\$6.13	\$6.13	\$8.40	\$8.40	68	135	203	93	185	278	75	37.0%
310S	Lts	489	978	1,468	\$7.41	\$7.41	\$10.23	\$10.23	4	7	11	5	10	15	4	38.1%
400S	Lts	3,821	7,643	11,464	\$8.60	\$8.60	\$11.96	\$11.96	33	66	99	46	91	137	39	39.1%
1000S	Lts	1,160	2,320	3,480	\$17.76	\$17.76	\$25.12	\$25.12	21	41	62	29	58	87	26	41.4%
175M	Lts	2,728	5,456	8,184	\$4.66	\$4.66	\$6.29	\$6.29	13	25	38	17	34	51	13	35.0%
250M	Lts	296	592	888	\$5.82	\$5.82	\$7.97	\$7.97	2	3	5	2	5	7	2	36.9%
400M	Lts	56	112	168	\$8.29	\$8.29	\$11.51	\$11.51	0	1	1	1	1	2	1	38.8%
G4 70S	Lts	0	0	0	\$1.52	\$1.52	\$2.17	\$2.17	0	0	0	0	0	0	0	0.0%
G4 400S	Lts	0	0	0	\$7.44	\$7.44	\$6.91	\$6.91	0	0	0	0	0	0	0	0.0%
Fuel Cost	MWH	2,823	7,959	10,782	\$15.09	\$15.09	\$16.04	\$16.04	43	120	163	45	128	173	10	6.3%
Riders	MWH	2,823	7,959	10,782	\$9.44	\$9.44	\$0.00	\$0.00	27	75	102	0	0	0	-102	
<b>Total:</b>									289	635	925	345	727	1,072	147	15.9%

Highlighted values have been revised.

**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	Pct Inc.
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	Annual	Summer	Winter	Annual	Annual	Annual
<b>D33 St Ltg Energy Mtrd Lighting Secondary</b>																
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	
<b>Total:</b>									62	174	236	71	198	268	33	13.8%
<b>D32 St Ltg Purchased-CL Lighting Secondary</b>																
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	
<b>Total:</b>									1	3	4	1	2	4	0	-7.1%
<b>Total Retail:</b>									71,836	134,580	206,416	78,338	147,232	225,570	19,154	9.3%

Highlighted values have been revised.

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 ¢	9.151 ¢	9.459 ¢	11.298 ¢
	Winter	5.759 ¢	7.551 ¢	7.769 ¢	9.586 ¢
	Winter - Electric Space Heat	5.064 ¢	6.851 ¢	7.074 ¢	8.886 ¢

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 ¢	17.244 ¢	17.460 ¢	19.391 ¢
	On-Peak Winter	11.115 ¢	12.969 ¢	13.125 ¢	15.004 ¢
	On-Peak Winter -Elec. Sp Ht	9.596 ¢	11.437 ¢	11.606 ¢	13.472 ¢
	Off-Peak Summer	2.559 ¢	4.310 ¢	4.679 ¢	6.457 ¢
	Off-Peak Winter	2.559 ¢	4.310 ¢	4.569 ¢	6.345 ¢

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 ¢	5.2050 ¢	6.089 ¢	7.275 ¢
	Standard Comm.	4.0440 ¢	5.2050 ¢	6.160 ¢	7.282 ¢
	Optional Resid. - Summer	7.339 ¢	9.151 ¢	9.459 ¢	11.298 ¢
	Optional Comm.- Summer	7.512 ¢	8.860 ¢	9.707 ¢	11.014 ¢

Highlighted values have been revised.

		Present	Proposed	Present	Proposed
<b>Limited Off-Peak (D10)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>	Residential	\$4.80	\$5.25	\$4.80	\$5.25
	Commercial Sec. 1 Phase	\$4.80	\$5.25	\$4.80	\$5.25
<b>Energy / kWh</b>	Commercial Sec. 3 Phase	\$6.80	\$7.50	\$6.80	\$7.50
	Commercial Primary	\$31.00	\$33.00	\$31.00	\$33.00
	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 ¢	4.130 ¢	4.482 ¢	6.200 ¢
	Commercial Secondary	2.437 ¢	4.130 ¢	4.553 ¢	6.207 ¢
	Commercial Primary	2.327 ¢	4.030 ¢	4.443 ¢	6.107 ¢

		Present	Proposed	Present	Proposed
<b>Small General (D12, D15)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>	Metered (D12)	\$16.75	\$16.75	\$16.75	\$16.75
<b>Energy / kWh</b>	Summer	7.512 ¢	8.860 ¢	9.707 ¢	11.014 ¢
	Winter	5.932 ¢	7.262 ¢	8.012 ¢	9.304 ¢

		Present	Proposed	Present	Proposed
<b>Small Municipal Pumping (D40)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>	Overhead	\$16.75	\$16.75	\$16.75	\$16.75
<b>Energy / kWh</b>	Summer	7.512 ¢	8.860 ¢	9.707 ¢	11.014 ¢
	Winter	5.932 ¢	7.262 ¢	8.012 ¢	9.304 ¢

		Present	Proposed	Present	Proposed
<b>Small General TOD (D14, D18, D19, D34)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>	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
<b>Energy / kWh</b>	On-Peak Summer	13.154 ¢	14.399 ¢	15.349 ¢	16.553 ¢
	On-Peak Winter	9.774 ¢	10.855 ¢	11.854 ¢	12.897 ¢
	Off-Peak Summer	2.559 ¢	4.310 ¢	4.754 ¢	6.464 ¢
	Off-Peak Winter	2.559 ¢	4.310 ¢	4.639 ¢	6.352 ¢
	Constant Use - Summer	6.267 ¢	7.841 ¢	8.462 ¢	9.995 ¢
	Constant Use - Winter	5.084 ¢	6.601 ¢	7.164 ¢	8.643 ¢



Highlighted values have been revised.

		Present	Proposed	Present	Proposed
<b>Demand-Metered Voltage Discounts</b>		Base Rates		Rates + Fuel	
<b>Voltage Discount / kWh</b>	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 ¢
<b>Voltage Discount / kW</b>	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

<b>General (D16)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$25.74	\$26.10	\$25.74	\$26.10
<b>Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Energy / kWh</b>		3.160 ¢	4.558 ¢	5.249 ¢	6.623 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

<b>Municipal Pumping (D41)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$25.74	\$26.10	\$25.74	\$26.10
<b>Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Energy / kWh</b>		3.160 ¢	4.558 ¢	5.249 ¢	6.623 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

<b>General Time of Day (D17)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$28.74	\$29.10	\$28.74	\$29.10
<b>On-Peak Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	On-Peak	4.256 ¢	6.168 ¢	6.881 ¢	8.666 ¢
	Off-Peak	2.339 ¢	3.281 ¢	3.970 ¢	5.002 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

<b>Peak-Controlled (D20)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$56.50	\$58.00	\$56.50	\$58.00
<b>Firm Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Control Demand / kW</b>	Tier 2 - Level A	\$8.26	\$9.93	\$8.26	\$9.93
	Tier 2 - Level B	\$7.57	\$9.19	\$7.57	\$9.19
	Tier 2 - Level C	\$7.11	\$8.70	\$7.11	\$8.70
	Tier 1 - Level A	\$7.69	\$9.33	\$7.69	\$9.33
	Tier 1 - Level B	\$6.90	\$8.47	\$6.90	\$8.47
	Tier 1 - Level C	\$6.34	\$7.87	\$6.34	\$7.87
<b>Energy / kWh</b>		3.160 ¢	4.558 ¢	5.249 ¢	6.623 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢



Highlighted values have been revised.

		Present	Proposed	Present	Proposed
<b>Peak-Controlled TOD (D21)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$56.50	\$58.00	\$56.50	\$58.00
<b>On-Peak Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Control Demand / kW</b>	Tier 2 - Level A	\$8.26	\$9.93	\$8.26	\$9.93
	Tier 2 - Level B	\$7.57	\$9.19	\$7.57	\$9.19
	Tier 2 - Level C	\$7.11	\$8.70	\$7.11	\$8.70
	Tier 1 - Level A	\$7.69	\$9.33	\$7.69	\$9.33
	Tier 1 - Level B	\$6.90	\$8.47	\$6.90	\$8.47
	Tier 1 - Level C	\$6.34	\$7.87	\$6.34	\$7.87
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	On-Peak	4.256 ¢	6.168 ¢	6.881 ¢	8.666 ¢
	Off-Peak	2.339 ¢	3.281 ¢	3.970 ¢	5.002 ¢
<b>Energy Credit / kWh</b>		-1.0500 ¢	-1.2500 ¢	-1.0500 ¢	-1.2500 ¢

		Present	Proposed	Present	Proposed
<b>Tier 1 Energy-Controlled Rider (D22)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>		\$56.50	\$58.00	\$56.50	\$58.00
<b>On-Peak Demand / kW</b>	Summer	\$14.15	\$16.10	\$14.15	\$16.10
	Winter	\$9.95	\$11.75	\$9.95	\$11.75
<b>Control Demand / kW</b>	Tier 1 - Level A	\$7.69	\$9.33	\$7.69	\$9.33
	Tier 1 - Level B	\$6.90	\$8.47	\$6.90	\$8.47
	Tier 1 - Level C	\$6.34	\$7.87	\$6.34	\$7.87
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	Firm On-Peak	4.256 ¢	6.168 ¢	6.881 ¢	8.666 ¢
	Firm Off-Peak	2.339 ¢	3.281 ¢	3.970 ¢	5.002 ¢
	Controllable On-Peak	4.026 ¢	5.948 ¢	6.651 ¢	8.446 ¢
	Controllable Off-Peak	2.234 ¢	3.181 ¢	3.865 ¢	4.902 ¢
	Control Period Energy	10.600 ¢	10.000 ¢	13.225 ¢	12.498 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

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

Highlighted values have been revised.

		Present	Proposed	Present	Proposed
<b>Automatic Protective Lighting (D11)</b>		Base Rates		Rates + Fuel	
<b>Area</b>	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
<b>Directional</b>	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

<b>Street Lighting System (D30)</b>		Base Rates		Rates + Fuel	
<b>Overhead</b>	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
<b>Underground</b>	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
<b>Decorative UG</b>	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

**Highlighted values have been revised.**

		Present	Proposed	Present	Proposed
<b>Street Lighting Purchased (Closed) (D31)</b>		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

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

<b>Street Lighting Purchased (Closed) (D32)</b>		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
<b>Standby Service Rider</b>			
<b>Customer / Mo.</b>		\$28.74	\$29.10
<b>Demand / Contract kW</b>	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**

Highlighted values have been revised.

**RESIDENTIAL SERVICE (Overhead) - D01**

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$36.28	\$39.21	\$2.93	8.08%
	300	\$40.64	\$44.01	\$3.37	8.29%
	400	\$49.35	\$53.59	\$4.24	8.60%
	500	\$58.06	\$63.18	\$5.12	8.81%
	600	\$66.78	\$72.77	\$5.99	8.97%
	750	\$79.85	\$87.14	\$7.30	9.14%
	850	\$88.56	\$96.73	\$8.17	9.23%
	1000	\$101.63	\$111.11	\$9.48	9.33%
	1500	\$145.19	\$159.04	\$13.85	9.54%
	2000	\$188.75	\$206.97	\$18.21	9.65%
	3000	\$275.88	\$302.83	\$26.95	9.77%
	4000	\$363.01	\$398.69	\$35.68	9.83%
5000	\$450.14	\$494.55	\$44.41	9.87%	
SUMMER	250	\$40.51	\$43.49	\$2.99	7.37%
	300	\$45.71	\$49.14	\$3.43	7.51%
	400	\$56.11	\$60.44	\$4.33	7.71%
	500	\$66.52	\$71.74	\$5.22	7.85%
	600	\$76.92	\$83.04	\$6.12	7.95%
	750	\$92.53	\$99.98	\$7.46	8.06%
	850	\$102.93	\$111.28	\$8.35	8.12%
	1000	\$118.53	\$128.23	\$9.70	8.18%
	1500	\$170.55	\$184.72	\$14.17	8.31%
	2000	\$222.57	\$241.21	\$18.64	8.38%
	3000	\$326.60	\$354.19	\$27.59	8.45%
	4000	\$430.64	\$467.17	\$36.53	8.48%
5000	\$534.67	\$580.15	\$45.48	8.51%	
AVERAGE MONTHLY	250	\$37.69	\$40.64	\$2.95	7.83%
	300	\$42.33	\$45.72	\$3.39	8.01%
	400	\$51.61	\$55.88	\$4.27	8.28%
	500	\$60.88	\$66.03	\$5.15	8.46%
	600	\$70.16	\$76.19	\$6.03	8.60%
	750	\$84.07	\$91.42	\$7.35	8.75%
	850	\$93.35	\$101.58	\$8.23	8.82%
	1000	\$107.26	\$116.82	\$9.55	8.91%
	1500	\$153.64	\$167.60	\$13.96	9.08%
	2000	\$200.03	\$218.38	\$18.36	9.18%
	3000	\$292.79	\$319.95	\$27.16	9.28%
	4000	\$385.55	\$421.52	\$35.96	9.33%
5000	\$478.31	\$523.08	\$44.77	9.36%	

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - D01**

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$34.54	\$37.46	\$2.92	8.45%
	300	\$38.55	\$41.91	\$3.35	8.70%
	400	\$46.57	\$50.79	\$4.22	9.07%
	500	\$54.59	\$59.68	\$5.09	9.33%
	600	\$62.61	\$68.57	\$5.96	9.52%
	750	\$74.63	\$81.89	\$7.26	9.73%
	850	\$82.65	\$90.78	\$8.13	9.84%
	1000	\$94.68	\$104.11	\$9.43	9.96%
	1500	\$134.77	\$148.54	\$13.77	10.22%
	2000	\$174.85	\$192.97	\$18.11	10.36%
	3000	\$255.03	\$281.83	\$26.80	10.51%
4000	\$335.21	\$370.69	\$35.48	10.58%	
5000	\$415.39	\$459.55	\$44.16	10.63%	
SUMMER	250	\$40.51	\$43.49	\$2.99	7.37%
	300	\$45.71	\$49.14	\$3.43	7.51%
	400	\$56.11	\$60.44	\$4.33	7.71%
	500	\$66.52	\$71.74	\$5.22	7.85%
	600	\$76.92	\$83.04	\$6.12	7.95%
	750	\$92.53	\$99.98	\$7.46	8.06%
	850	\$102.93	\$111.28	\$8.35	8.12%
	1000	\$118.53	\$128.23	\$9.70	8.18%
	1500	\$170.55	\$184.72	\$14.17	8.31%
	2000	\$222.57	\$241.21	\$18.64	8.38%
	3000	\$326.60	\$354.19	\$27.59	8.45%
4000	\$430.64	\$467.17	\$36.53	8.48%	
5000	\$534.67	\$580.15	\$45.48	8.51%	
AVERAGE MONTHLY	250	\$36.53	\$39.47	\$2.94	8.05%
	300	\$40.94	\$44.32	\$3.38	8.26%
	400	\$49.75	\$54.01	\$4.26	8.56%
	500	\$58.56	\$63.70	\$5.14	8.77%
	600	\$67.38	\$73.39	\$6.01	8.92%
	750	\$80.60	\$87.92	\$7.33	9.09%
	850	\$89.41	\$97.61	\$8.20	9.18%
	1000	\$102.63	\$112.15	\$9.52	9.28%
	1500	\$146.69	\$160.60	\$13.91	9.48%
	2000	\$190.76	\$209.05	\$18.29	9.59%
	3000	\$278.89	\$305.95	\$27.06	9.70%
4000	\$367.02	\$402.85	\$35.83	9.76%	
5000	\$455.15	\$499.75	\$44.60	9.80%	

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**RESIDENTIAL SERVICE (Underground) - D03**

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$36.28	\$39.21	\$2.93	8.08%
	300	\$40.64	\$44.01	\$3.37	8.29%
	400	\$49.35	\$53.59	\$4.24	8.60%
	500	\$58.06	\$63.18	\$5.12	8.81%
	600	\$66.78	\$72.77	\$5.99	8.97%
	750	\$79.85	\$87.14	\$7.30	9.14%
	850	\$88.56	\$96.73	\$8.17	9.23%
	1000	\$101.63	\$111.11	\$9.48	9.33%
	1500	\$145.19	\$159.04	\$13.85	9.54%
	2000	\$188.75	\$206.97	\$18.21	9.65%
	3000	\$275.88	\$302.83	\$26.95	9.77%
	4000	\$363.01	\$398.69	\$35.68	9.83%
5000	\$450.14	\$494.55	\$44.41	9.87%	
SUMMER	250	\$40.51	\$43.49	\$2.99	7.37%
	300	\$45.71	\$49.14	\$3.43	7.51%
	400	\$56.11	\$60.44	\$4.33	7.71%
	500	\$66.52	\$71.74	\$5.22	7.85%
	600	\$76.92	\$83.04	\$6.12	7.95%
	750	\$92.53	\$99.98	\$7.46	8.06%
	850	\$102.93	\$111.28	\$8.35	8.12%
	1000	\$118.53	\$128.23	\$9.70	8.18%
	1500	\$170.55	\$184.72	\$14.17	8.31%
	2000	\$222.57	\$241.21	\$18.64	8.38%
	3000	\$326.60	\$354.19	\$27.59	8.45%
	4000	\$430.64	\$467.17	\$36.53	8.48%
5000	\$534.67	\$580.15	\$45.48	8.51%	
AVERAGE MONTHLY	250	\$37.69	\$40.64	\$2.95	7.83%
	300	\$42.33	\$45.72	\$3.39	8.01%
	400	\$51.61	\$55.88	\$4.27	8.28%
	500	\$60.88	\$66.03	\$5.15	8.46%
	600	\$70.16	\$76.19	\$6.03	8.60%
	750	\$84.07	\$91.42	\$7.35	8.75%
	850	\$93.35	\$101.58	\$8.23	8.82%
	1000	\$107.26	\$116.82	\$9.55	8.91%
	1500	\$153.64	\$167.60	\$13.96	9.08%
	2000	\$200.03	\$218.38	\$18.36	9.18%
	3000	\$292.79	\$319.95	\$27.16	9.28%
	4000	\$385.55	\$421.52	\$35.96	9.33%
5000	\$478.31	\$523.08	\$44.77	9.36%	

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**RESIDENTIAL SERVICE - SPACE HEATING (Underground) - D03**

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$34.54	\$37.46	\$2.92	8.45%
	300	\$38.55	\$41.91	\$3.35	8.70%
	400	\$46.57	\$50.79	\$4.22	9.07%
	500	\$54.59	\$59.68	\$5.09	9.33%
	600	\$62.61	\$68.57	\$5.96	9.52%
	750	\$74.63	\$81.89	\$7.26	9.73%
	850	\$82.65	\$90.78	\$8.13	9.84%
	1000	\$94.68	\$104.11	\$9.43	9.96%
	1500	\$134.77	\$148.54	\$13.77	10.22%
	2000	\$174.85	\$192.97	\$18.11	10.36%
	3000	\$255.03	\$281.83	\$26.80	10.51%
4000	\$335.21	\$370.69	\$35.48	10.58%	
5000	\$415.39	\$459.55	\$44.16	10.63%	
SUMMER	250	\$40.51	\$43.49	\$2.99	7.37%
	300	\$45.71	\$49.14	\$3.43	7.51%
	400	\$56.11	\$60.44	\$4.33	7.71%
	500	\$66.52	\$71.74	\$5.22	7.85%
	600	\$76.92	\$83.04	\$6.12	7.95%
	750	\$92.53	\$99.98	\$7.46	8.06%
	850	\$102.93	\$111.28	\$8.35	8.12%
	1000	\$118.53	\$128.23	\$9.70	8.18%
	1500	\$170.55	\$184.72	\$14.17	8.31%
	2000	\$222.57	\$241.21	\$18.64	8.38%
	3000	\$326.60	\$354.19	\$27.59	8.45%
4000	\$430.64	\$467.17	\$36.53	8.48%	
5000	\$534.67	\$580.15	\$45.48	8.51%	
AVERAGE MONTHLY	250	\$36.53	\$39.47	\$2.94	8.05%
	300	\$40.94	\$44.32	\$3.38	8.26%
	400	\$49.75	\$54.01	\$4.26	8.56%
	500	\$58.56	\$63.70	\$5.14	8.77%
	600	\$67.38	\$73.39	\$6.01	8.92%
	750	\$80.60	\$87.92	\$7.33	9.09%
	850	\$89.41	\$97.61	\$8.20	9.18%
	1000	\$102.63	\$112.15	\$9.52	9.28%
	1500	\$146.69	\$160.60	\$13.91	9.48%
	2000	\$190.76	\$209.05	\$18.29	9.59%
	3000	\$278.89	\$305.95	\$27.06	9.70%
4000	\$367.02	\$402.85	\$35.83	9.76%	
5000	\$455.15	\$499.75	\$44.60	9.80%	



**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**RESIDENTIAL TIME OF DAY SERVICE (Overhead) - D02**

On-Peak = 35%

Energy in kWh	Monthly Bill		Increase		
	Present	Proposed	Amount	Percent	
WINTER	250	\$37.77	\$40.69	\$2.92	7.73%
	300	\$42.02	\$45.38	\$3.35	7.98%
	400	\$50.53	\$54.75	\$4.22	8.36%
	500	\$59.04	\$64.13	\$5.09	8.62%
	600	\$67.54	\$73.50	\$5.96	8.82%
	750	\$80.30	\$87.57	\$7.26	9.04%
	850	\$88.81	\$96.94	\$8.13	9.15%
	1000	\$101.57	\$111.01	\$9.43	9.29%
	1500	\$144.11	\$157.88	\$13.77	9.56%
	2000	\$186.65	\$204.76	\$18.12	9.71%
	3000	\$271.72	\$298.52	\$26.80	9.86%
	4000	\$356.79	\$392.27	\$35.48	9.94%
5000	\$441.87	\$486.03	\$44.16	9.99%	
SUMMER	250	\$41.74	\$44.71	\$2.97	7.11%
	300	\$46.79	\$50.20	\$3.41	7.29%
	400	\$56.89	\$61.19	\$4.30	7.56%
	500	\$66.98	\$72.17	\$5.19	7.74%
	600	\$77.08	\$83.15	\$6.07	7.88%
	750	\$92.23	\$99.63	\$7.40	8.03%
	850	\$102.32	\$110.61	\$8.29	8.10%
	1000	\$117.47	\$127.09	\$9.62	8.19%
	1500	\$167.95	\$182.01	\$14.06	8.37%
	2000	\$218.43	\$236.93	\$18.49	8.47%
	3000	\$319.40	\$346.77	\$27.36	8.57%
	4000	\$420.37	\$456.61	\$36.24	8.62%
5000	\$521.34	\$566.44	\$45.11	8.65%	
AVERAGE MONTHLY	250	\$39.09	\$42.03	\$2.94	7.51%
	300	\$43.61	\$46.99	\$3.37	7.74%
	400	\$52.65	\$56.90	\$4.25	8.07%
	500	\$61.69	\$66.81	\$5.12	8.30%
	600	\$70.72	\$76.72	\$6.00	8.48%
	750	\$84.28	\$91.59	\$7.31	8.67%
	850	\$93.32	\$101.50	\$8.18	8.77%
	1000	\$106.87	\$116.37	\$9.50	8.89%
	1500	\$152.06	\$165.93	\$13.87	9.12%
	2000	\$197.24	\$215.48	\$18.24	9.25%
	3000	\$287.61	\$314.60	\$26.99	9.38%
	4000	\$377.99	\$413.72	\$35.73	9.45%
5000	\$468.36	\$512.83	\$44.48	9.50%	



**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**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	\$39.35	\$2.91	7.98%
	300	\$40.43	\$43.77	\$3.34	8.26%
	400	\$48.40	\$52.61	\$4.20	8.69%
	500	\$56.38	\$61.45	\$5.07	8.99%
	600	\$64.35	\$70.29	\$5.93	9.22%
	750	\$76.32	\$83.55	\$7.23	9.47%
	850	\$84.29	\$92.38	\$8.09	9.60%
	1000	\$96.26	\$105.64	\$9.39	9.75%
	1500	\$136.14	\$149.84	\$13.71	10.07%
	2000	\$176.01	\$194.04	\$18.02	10.24%
	3000	\$255.77	\$282.43	\$26.66	10.42%
4000	\$335.53	\$370.83	\$35.30	10.52%	
5000	\$415.28	\$459.22	\$43.94	10.58%	
SUMMER	250	\$41.74	\$44.71	\$2.97	7.11%
	300	\$46.79	\$50.20	\$3.41	7.29%
	400	\$56.89	\$61.19	\$4.30	7.56%
	500	\$66.98	\$72.17	\$5.19	7.74%
	600	\$77.08	\$83.15	\$6.07	7.88%
	750	\$92.23	\$99.63	\$7.40	8.03%
	850	\$102.32	\$110.61	\$8.29	8.10%
	1000	\$117.47	\$127.09	\$9.62	8.19%
	1500	\$167.95	\$182.01	\$14.06	8.37%
	2000	\$218.43	\$236.93	\$18.49	8.47%
	3000	\$319.40	\$346.77	\$27.36	8.57%
4000	\$420.37	\$456.61	\$36.24	8.62%	
5000	\$521.34	\$566.44	\$45.11	8.65%	
AVERAGE MONTHLY	250	\$38.21	\$41.14	\$2.93	7.67%
	300	\$42.55	\$45.91	\$3.36	7.91%
	400	\$51.23	\$55.47	\$4.24	8.27%
	500	\$59.91	\$65.02	\$5.11	8.53%
	600	\$68.60	\$74.58	\$5.98	8.72%
	750	\$81.62	\$88.91	\$7.29	8.93%
	850	\$90.30	\$98.46	\$8.16	9.03%
	1000	\$103.33	\$112.79	\$9.47	9.16%
	1500	\$146.74	\$160.56	\$13.82	9.42%
	2000	\$190.15	\$208.33	\$18.18	9.56%
	3000	\$276.98	\$303.88	\$26.90	9.71%
4000	\$363.81	\$399.42	\$35.61	9.79%	
5000	\$450.63	\$494.96	\$44.33	9.84%	

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**SMALL GENERAL SERVICE**

	Energy in kWh	Monthly Bill		Increase	
		Present	Proposed	Amount	Percent
WINTER	250	\$39.14	\$40.01	\$0.87	2.22%
	300	\$43.62	\$44.66	\$1.04	2.39%
	400	\$52.57	\$53.97	\$1.39	2.65%
	500	\$61.53	\$63.27	\$1.74	2.83%
	600	\$70.49	\$72.57	\$2.09	2.96%
	750	\$83.92	\$86.53	\$2.61	3.11%
	1000	\$106.31	\$109.79	\$3.48	3.27%
	1500	\$151.09	\$156.31	\$5.22	3.45%
	2000	\$195.87	\$202.83	\$6.96	3.55%
	3000	\$285.43	\$295.87	\$10.44	3.66%
	4000	\$374.99	\$388.91	\$13.92	3.71%
5000	\$464.55	\$481.95	\$17.40	3.74%	
SUMMER	250	\$43.38	\$44.29	\$0.91	2.10%
	300	\$48.70	\$49.79	\$1.09	2.24%
	400	\$59.35	\$60.81	\$1.46	2.45%
	500	\$70.00	\$71.82	\$1.82	2.60%
	600	\$80.65	\$82.84	\$2.18	2.71%
	750	\$96.63	\$99.36	\$2.73	2.82%
	1000	\$123.26	\$126.89	\$3.64	2.95%
	1500	\$176.51	\$181.97	\$5.46	3.09%
	2000	\$229.76	\$237.04	\$7.28	3.17%
	3000	\$336.27	\$347.18	\$10.91	3.25%
	4000	\$442.77	\$457.33	\$14.55	3.29%
5000	\$549.28	\$567.47	\$18.19	3.31%	
AVERAGE MONTHLY	250	\$40.55	\$41.44	\$0.88	2.18%
	300	\$45.31	\$46.37	\$1.06	2.34%
	400	\$54.83	\$56.25	\$1.41	2.58%
	500	\$64.35	\$66.12	\$1.77	2.74%
	600	\$73.88	\$75.99	\$2.12	2.87%
	750	\$88.16	\$90.81	\$2.65	3.01%
	1000	\$111.96	\$115.49	\$3.53	3.15%
	1500	\$159.56	\$164.86	\$5.30	3.32%
	2000	\$207.17	\$214.23	\$7.06	3.41%
	3000	\$302.38	\$312.97	\$10.60	3.50%
	4000	\$397.59	\$411.72	\$14.13	3.55%
5000	\$492.80	\$510.46	\$17.66	3.58%	

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**GENERAL SERVICE (Secondary Voltage)**

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$381.77	\$422.80	\$41.03	10.75%
15	6,000	400	\$567.55	\$621.50	\$53.95	9.51%
15	9,000	600	\$721.83	\$782.70	\$60.87	8.43%
25	5,000	200	\$619.13	\$687.27	\$68.14	11.01%
25	10,000	400	\$928.76	\$1,018.44	\$89.68	9.66%
25	15,000	600	\$1,185.90	\$1,287.10	\$101.21	8.53%
50	10,000	200	\$1,212.51	\$1,348.44	\$135.93	11.21%
50	20,000	400	\$1,831.78	\$2,010.77	\$178.99	9.77%
50	30,000	600	\$2,346.05	\$2,548.11	\$202.06	8.61%
75	15,000	200	\$1,805.90	\$2,009.60	\$203.71	11.28%
75	30,000	400	\$2,734.80	\$3,003.11	\$268.31	9.81%
75	45,000	600	\$3,506.21	\$3,809.11	\$302.90	8.64%
100	20,000	200	\$2,399.28	\$2,670.77	\$271.49	11.32%
100	40,000	400	\$3,637.83	\$3,995.45	\$357.62	9.83%
100	60,000	600	\$4,666.37	\$5,070.12	\$403.75	8.65%
200	40,000	200	\$4,772.83	\$5,315.45	\$542.62	11.37%
200	80,000	400	\$7,249.91	\$7,964.79	\$714.88	9.86%
200	120,000	600	\$9,307.00	\$10,114.14	\$807.14	8.67%
300	60,000	200	\$7,146.37	\$7,960.12	\$813.75	11.39%
300	120,000	400	\$10,862.00	\$11,934.14	\$1,072.14	9.87%
300	180,000	600	\$13,947.62	\$15,158.16	\$1,210.53	8.68%
500	100,000	200	\$11,893.45	\$13,249.46	\$1,356.01	11.40%
500	200,000	400	\$18,086.17	\$19,872.83	\$1,786.66	9.88%
500	300,000	600	\$23,228.88	\$25,246.19	\$2,017.31	8.68%
1,000	200,000	200	\$23,761.17	\$26,472.83	\$2,711.66	11.41%
1,000	400,000	400	\$36,146.59	\$39,719.56	\$3,572.97	9.88%
1,000	600,000	600	\$46,432.02	\$50,466.29	\$4,034.27	8.69%
3,000	600,000	200	\$71,232.02	\$79,366.29	\$8,134.27	11.42%
3,000	1,200,000	400	\$108,388.30	\$119,106.48	\$10,718.18	9.89%
3,000	1,800,000	600	\$139,244.58	\$151,346.67	\$12,102.09	8.69%
5,000	1,000,000	200	\$118,702.87	\$132,259.75	\$13,556.88	11.42%
5,000	2,000,000	400	\$180,630.00	\$198,493.40	\$17,863.39	9.89%
5,000	3,000,000	600	\$232,057.14	\$252,227.04	\$20,169.91	8.69%

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**GENERAL SERVICE (Primary Voltage)**

Demand in kW	Energy in kWh	Hours	Monthly Bill		Increase	
			Present	Proposed	Amount	Percent
15	3,000	200	\$369.47	\$412.30	\$42.83	11.59%
15	6,000	400	\$551.95	\$608.00	\$56.05	10.15%
15	9,000	600	\$702.93	\$766.20	\$63.27	9.00%
25	5,000	200	\$598.63	\$669.77	\$71.14	11.88%
25	10,000	400	\$902.76	\$995.94	\$93.18	10.32%
25	15,000	600	\$1,154.40	\$1,259.60	\$105.21	9.11%
50	10,000	200	\$1,171.51	\$1,313.44	\$141.93	12.11%
50	20,000	400	\$1,779.78	\$1,965.77	\$185.99	10.45%
50	30,000	600	\$2,283.05	\$2,493.11	\$210.06	9.20%
75	15,000	200	\$1,744.40	\$1,957.10	\$212.71	12.19%
75	30,000	400	\$2,656.80	\$2,935.61	\$278.81	10.49%
75	45,000	600	\$3,411.71	\$3,726.61	\$314.90	9.23%
100	20,000	200	\$2,317.28	\$2,600.77	\$283.49	12.23%
100	40,000	400	\$3,533.83	\$3,905.45	\$371.62	10.52%
100	60,000	600	\$4,540.37	\$4,960.12	\$419.75	9.24%
200	40,000	200	\$4,608.83	\$5,175.45	\$566.62	12.29%
200	80,000	400	\$7,041.91	\$7,784.79	\$742.88	10.55%
200	120,000	600	\$9,055.00	\$9,894.14	\$839.14	9.27%
300	60,000	200	\$6,900.37	\$7,750.12	\$849.75	12.31%
300	120,000	400	\$10,550.00	\$11,664.14	\$1,114.14	10.56%
300	180,000	600	\$13,569.62	\$14,828.16	\$1,258.53	9.27%
500	100,000	200	\$11,483.45	\$12,899.46	\$1,416.01	12.33%
500	200,000	400	\$17,566.17	\$19,422.83	\$1,856.66	10.57%
500	300,000	600	\$22,598.88	\$24,696.19	\$2,097.31	9.28%
1,000	200,000	200	\$22,941.17	\$25,772.83	\$2,831.66	12.34%
1,000	400,000	400	\$35,106.59	\$38,819.56	\$3,712.97	10.58%
1,000	600,000	600	\$45,172.02	\$49,366.29	\$4,194.27	9.29%
3,000	600,000	200	\$68,772.02	\$77,266.29	\$8,494.27	12.35%
3,000	1,200,000	400	\$105,268.30	\$116,406.48	\$11,138.18	10.58%
3,000	1,800,000	600	\$135,464.58	\$148,046.67	\$12,582.09	9.29%
5,000	1,000,000	200	\$114,602.87	\$128,759.75	\$14,156.88	12.35%
5,000	2,000,000	400	\$175,430.00	\$193,993.40	\$18,563.39	10.58%
5,000	3,000,000	600	\$225,757.14	\$246,727.04	\$20,969.91	9.29%

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**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	\$421.14	\$39.79	10.43%
15	6,000	400	\$563.70	\$615.17	\$51.47	9.13%
15	9,000	600	\$714.56	\$771.71	\$57.15	8.00%
25	5,000	200	\$616.42	\$682.49	\$66.08	10.72%
25	10,000	400	\$920.34	\$1,005.88	\$85.54	9.29%
25	15,000	600	\$1,171.77	\$1,266.78	\$95.01	8.11%
50	10,000	200	\$1,204.09	\$1,335.88	\$131.79	10.95%
50	20,000	400	\$1,811.95	\$1,982.67	\$170.72	9.42%
50	30,000	600	\$2,314.80	\$2,504.45	\$189.65	8.19%
75	15,000	200	\$1,791.77	\$1,989.28	\$197.51	11.02%
75	30,000	400	\$2,703.55	\$2,959.45	\$255.90	9.47%
75	45,000	600	\$3,457.83	\$3,742.13	\$284.30	8.22%
100	20,000	200	\$2,379.45	\$2,642.67	\$263.22	11.06%
100	40,000	400	\$3,595.16	\$3,936.24	\$341.08	9.49%
100	60,000	600	\$4,600.87	\$4,979.81	\$378.94	8.24%
200	40,000	200	\$4,730.16	\$5,256.24	\$526.08	11.12%
200	80,000	400	\$7,161.57	\$7,843.38	\$681.81	9.52%
200	120,000	600	\$9,172.99	\$9,930.52	\$757.53	8.26%
300	60,000	200	\$7,080.87	\$7,869.81	\$788.94	11.14%
300	120,000	400	\$10,727.99	\$11,750.52	\$1,022.53	9.53%
300	180,000	600	\$13,745.12	\$14,881.23	\$1,136.11	8.27%
500	100,000	200	\$11,782.28	\$13,096.95	\$1,314.67	11.16%
500	200,000	400	\$17,860.82	\$19,564.80	\$1,703.97	9.54%
500	300,000	600	\$22,889.37	\$24,782.65	\$1,893.28	8.27%
1,000	200,000	200	\$23,535.82	\$26,164.80	\$2,628.97	11.17%
1,000	400,000	400	\$35,692.91	\$39,100.50	\$3,407.59	9.55%
1,000	600,000	600	\$45,749.99	\$49,536.19	\$3,786.20	8.28%
3,000	600,000	200	\$70,549.99	\$78,436.19	\$7,886.20	11.18%
3,000	1,200,000	400	\$107,021.24	\$117,243.29	\$10,222.04	9.55%
3,000	1,800,000	600	\$137,192.50	\$148,550.38	\$11,357.88	8.28%
5,000	1,000,000	200	\$117,564.16	\$130,707.59	\$13,143.43	11.18%
5,000	2,000,000	400	\$178,349.58	\$195,386.08	\$17,036.50	9.55%
5,000	3,000,000	600	\$228,635.00	\$247,564.56	\$18,929.56	8.28%

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**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	\$410.64	\$41.59	11.27%
15	6,000	400	\$548.10	\$601.67	\$53.57	9.77%
15	9,000	600	\$695.66	\$755.21	\$59.55	8.56%
25	5,000	200	\$595.92	\$664.99	\$69.08	11.59%
25	10,000	400	\$894.34	\$983.38	\$89.04	9.96%
25	15,000	600	\$1,140.27	\$1,239.28	\$99.01	8.68%
50	10,000	200	\$1,163.09	\$1,300.88	\$137.79	11.85%
50	20,000	400	\$1,759.95	\$1,937.67	\$177.72	10.10%
50	30,000	600	\$2,251.80	\$2,449.45	\$197.65	8.78%
75	15,000	200	\$1,730.27	\$1,936.78	\$206.51	11.93%
75	30,000	400	\$2,625.55	\$2,891.95	\$266.40	10.15%
75	45,000	600	\$3,363.33	\$3,659.63	\$296.30	8.81%
100	20,000	200	\$2,297.45	\$2,572.67	\$275.22	11.98%
100	40,000	400	\$3,491.16	\$3,846.24	\$355.08	10.17%
100	60,000	600	\$4,474.87	\$4,869.81	\$394.94	8.83%
200	40,000	200	\$4,566.16	\$5,116.24	\$550.08	12.05%
200	80,000	400	\$6,953.57	\$7,663.38	\$709.81	10.21%
200	120,000	600	\$8,920.99	\$9,710.52	\$789.53	8.85%
300	60,000	200	\$6,834.87	\$7,659.81	\$824.94	12.07%
300	120,000	400	\$10,415.99	\$11,480.52	\$1,064.53	10.22%
300	180,000	600	\$13,367.12	\$14,551.23	\$1,184.11	8.86%
500	100,000	200	\$11,372.28	\$12,746.95	\$1,374.67	12.09%
500	200,000	400	\$17,340.82	\$19,114.80	\$1,773.97	10.23%
500	300,000	600	\$22,259.37	\$24,232.65	\$1,973.28	8.86%
1,000	200,000	200	\$22,715.82	\$25,464.80	\$2,748.97	12.10%
1,000	400,000	400	\$34,652.91	\$38,200.50	\$3,547.59	10.24%
1,000	600,000	600	\$44,489.99	\$48,436.19	\$3,946.20	8.87%
3,000	600,000	200	\$68,089.99	\$76,336.19	\$8,246.20	12.11%
3,000	1,200,000	400	\$103,901.24	\$114,543.29	\$10,642.04	10.24%
3,000	1,800,000	600	\$133,412.50	\$145,250.38	\$11,837.88	8.87%
5,000	1,000,000	200	\$113,464.16	\$127,207.59	\$13,743.43	12.11%
5,000	2,000,000	400	\$173,149.58	\$190,886.08	\$17,736.50	10.24%
5,000	3,000,000	600	\$222,335.00	\$242,064.56	\$19,729.56	8.87%



**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**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	\$1,179.84	\$125.57	11.91%
50	20,000	400	\$1,673.54	\$1,842.17	\$168.63	10.08%
50	30,000	600	\$2,187.81	\$2,379.51	\$191.70	8.76%
75	15,000	200	\$1,553.16	\$1,740.75	\$187.60	12.08%
75	30,000	400	\$2,482.06	\$2,734.26	\$252.20	10.16%
75	45,000	600	\$3,253.47	\$3,540.26	\$286.79	8.81%
100	20,000	200	\$2,052.04	\$2,301.67	\$249.63	12.16%
100	40,000	400	\$3,290.59	\$3,626.35	\$335.76	10.20%
100	60,000	600	\$4,319.13	\$4,701.02	\$381.89	8.84%
150	30,000	200	\$3,049.81	\$3,423.51	\$373.70	12.25%
150	60,000	400	\$4,907.63	\$5,410.52	\$502.89	10.25%
150	90,000	600	\$6,450.44	\$7,022.53	\$572.09	8.87%
200	40,000	200	\$4,047.59	\$4,545.35	\$497.76	12.30%
200	80,000	400	\$6,524.67	\$7,194.69	\$670.02	10.27%
200	120,000	600	\$8,581.76	\$9,344.04	\$762.28	8.88%
300	60,000	200	\$6,043.13	\$6,789.02	\$745.89	12.34%
300	120,000	400	\$9,758.76	\$10,763.04	\$1,004.28	10.29%
300	180,000	600	\$12,844.38	\$13,987.06	\$1,142.67	8.90%
400	80,000	200	\$8,038.67	\$9,032.69	\$994.02	12.37%
400	160,000	400	\$12,992.84	\$14,331.38	\$1,338.54	10.30%
400	240,000	600	\$17,107.01	\$18,630.08	\$1,523.06	8.90%
500	100,000	200	\$10,034.21	\$11,276.36	\$1,242.15	12.38%
500	200,000	400	\$16,226.93	\$17,899.73	\$1,672.80	10.31%
500	300,000	600	\$21,369.64	\$23,273.09	\$1,903.45	8.91%
1,000	200,000	200	\$20,011.93	\$22,494.73	\$2,482.80	12.41%
1,000	400,000	400	\$32,397.35	\$35,741.46	\$3,344.11	10.32%
1,000	600,000	600	\$42,682.78	\$46,488.19	\$3,805.41	8.92%
3,000	600,000	200	\$59,922.78	\$67,368.19	\$7,445.41	12.43%
3,000	1,200,000	400	\$97,079.06	\$107,108.38	\$10,029.32	10.33%
3,000	1,800,000	600	\$127,935.34	\$139,348.57	\$11,413.23	8.92%
5,000	1,000,000	200	\$99,833.63	\$112,241.65	\$12,408.02	12.43%
5,000	2,000,000	400	\$161,760.76	\$178,475.30	\$16,714.53	10.33%
5,000	3,000,000	600	\$213,187.90	\$232,208.94	\$19,021.05	8.92%

**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**PEAK-CONTROLLED TOD SERVICE** (Secondary Voltage)

40% On-Peak  
 60% Off-Peak

**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	\$1,042.85	\$1,164.28	\$121.43	11.64%
50	20,000	400	\$1,650.71	\$1,811.07	\$160.36	9.71%
50	30,000	600	\$2,153.56	\$2,332.85	\$179.29	8.33%
75	15,000	200	\$1,536.03	\$1,717.43	\$181.40	11.81%
75	30,000	400	\$2,447.81	\$2,687.60	\$239.79	9.80%
75	45,000	600	\$3,202.09	\$3,470.28	\$268.19	8.38%
100	20,000	200	\$2,029.21	\$2,270.57	\$241.36	11.89%
100	40,000	400	\$3,244.92	\$3,564.14	\$319.22	9.84%
100	60,000	600	\$4,250.63	\$4,607.71	\$357.08	8.40%
150	30,000	200	\$3,015.56	\$3,376.85	\$361.29	11.98%
150	60,000	400	\$4,839.13	\$5,317.21	\$478.08	9.88%
150	90,000	600	\$6,347.69	\$6,882.56	\$534.88	8.43%
200	40,000	200	\$4,001.92	\$4,483.14	\$481.22	12.02%
200	80,000	400	\$6,433.33	\$7,070.28	\$636.95	9.90%
200	120,000	600	\$8,444.75	\$9,157.42	\$712.67	8.44%
300	60,000	200	\$5,974.63	\$6,695.71	\$721.08	12.07%
300	120,000	400	\$9,621.75	\$10,576.42	\$954.67	9.92%
300	180,000	600	\$12,638.88	\$13,707.13	\$1,068.25	8.45%
400	80,000	200	\$7,947.33	\$8,908.28	\$960.95	12.09%
400	160,000	400	\$12,810.17	\$14,082.56	\$1,272.39	9.93%
400	240,000	600	\$16,833.00	\$18,256.84	\$1,423.84	8.46%
500	100,000	200	\$9,920.04	\$11,120.85	\$1,200.81	12.10%
500	200,000	400	\$15,998.58	\$17,588.70	\$1,590.11	9.94%
500	300,000	600	\$21,027.13	\$22,806.55	\$1,779.42	8.46%
1,000	200,000	200	\$19,783.58	\$22,183.70	\$2,400.11	12.13%
1,000	400,000	400	\$31,940.67	\$35,119.40	\$3,178.73	9.95%
1,000	600,000	600	\$41,997.75	\$45,555.09	\$3,557.34	8.47%
3,000	600,000	200	\$59,237.75	\$66,435.09	\$7,197.34	12.15%
3,000	1,200,000	400	\$95,709.00	\$105,242.19	\$9,533.18	9.96%
3,000	1,800,000	600	\$125,880.26	\$136,549.28	\$10,669.02	8.48%
5,000	1,000,000	200	\$98,691.92	\$110,686.49	\$11,994.57	12.15%
5,000	2,000,000	400	\$159,477.34	\$175,364.98	\$15,887.64	9.96%
5,000	3,000,000	600	\$209,762.76	\$227,543.46	\$17,780.70	8.48%



**Comparison Of Monthly Bills At Present & Proposed Rates**

Highlighted values have been revised.

**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	\$1,083.48	\$117.63	12.18%
50	20,000	400	\$1,558.21	\$1,715.47	\$157.26	10.09%
50	30,000	600	\$2,045.56	\$2,222.45	\$176.89	8.65%
75	15,000	200	\$1,420.53	\$1,596.23	\$175.70	12.37%
75	30,000	400	\$2,309.06	\$2,544.20	\$235.14	10.18%
75	45,000	600	\$3,040.09	\$3,304.68	\$264.59	8.70%
100	20,000	200	\$1,875.21	\$2,108.97	\$233.76	12.47%
100	40,000	400	\$3,059.92	\$3,372.94	\$313.02	10.23%
100	60,000	600	\$4,034.63	\$4,386.91	\$352.28	8.73%
150	30,000	200	\$2,784.56	\$3,134.45	\$349.89	12.57%
150	60,000	400	\$4,561.63	\$5,030.41	\$468.78	10.28%
150	90,000	600	\$6,023.69	\$6,551.36	\$527.68	8.76%
200	40,000	200	\$3,693.92	\$4,159.94	\$466.02	12.62%
200	80,000	400	\$6,063.33	\$6,687.88	\$624.55	10.30%
200	120,000	600	\$8,012.75	\$8,715.82	\$703.07	8.77%
300	60,000	200	\$5,512.63	\$6,210.91	\$698.28	12.67%
300	120,000	400	\$9,066.75	\$10,002.82	\$936.07	10.32%
300	180,000	600	\$11,990.88	\$13,044.73	\$1,053.85	8.79%
400	80,000	200	\$7,331.33	\$8,261.88	\$930.55	12.69%
400	160,000	400	\$12,070.17	\$13,317.76	\$1,247.59	10.34%
400	240,000	600	\$15,969.00	\$17,373.64	\$1,404.64	8.80%
500	100,000	200	\$9,150.04	\$10,312.85	\$1,162.81	12.71%
500	200,000	400	\$15,073.58	\$16,632.70	\$1,559.11	10.34%
500	300,000	600	\$19,947.13	\$21,702.55	\$1,755.42	8.80%
1,000	200,000	200	\$18,243.58	\$20,567.70	\$2,324.11	12.74%
1,000	400,000	400	\$30,090.67	\$33,207.40	\$3,116.73	10.36%
1,000	600,000	600	\$39,837.75	\$43,347.09	\$3,509.34	8.81%
3,000	600,000	200	\$54,617.75	\$61,587.09	\$6,969.34	12.76%
3,000	1,200,000	400	\$90,159.00	\$99,506.19	\$9,347.18	10.37%
3,000	1,800,000	600	\$119,400.26	\$129,925.28	\$10,525.02	8.81%
5,000	1,000,000	200	\$90,991.92	\$102,606.49	\$11,614.57	12.76%
5,000	2,000,000	400	\$150,227.34	\$165,804.98	\$15,577.64	10.37%
5,000	3,000,000	600	\$198,962.76	\$216,503.46	\$17,540.70	8.82%

**Fuel Cost Rider - Service Category Ratio Calculation**

Highlighted values have been revised.

		SERVICE CATEGORY					
		Residential	C&I Non-Dmd	C&I Demand	Outdoor Lighting	RETAIL	
<b>STEP 1: CLASS RATIOS</b>							
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.	<b>Class Ratio (Class Unit Cost / Retail Unit Cost)</b>	<b>1.0094</b>	<b>1.0129</b>	<b>0.9962</b>	<b>0.7813</b>	<b>1.0000</b>	
<b>STEP 2: C&amp;I DEMAND TOD RATIOS</b>							
			Non-TOD	On-Peak	Off-Peak		
5.	Ratio of On-Peak to Off-Peak System Weighted Marginal Energy Costs			1.4514			
6.	C&I Demand Class Time-of-Day Percentages from 8760 loads			0.4143	0.5857		
7.	C&I Demand TOD On-Peak Ratio = 1 / (0.4143 + (0.5857 / 1.451)) **			<b>1.2227</b>			
8.	C&I Demand TOD Off-Peak Ratio = 1 / ((1.451 x 0.4143) + 0.5857) **				<b>0.8424</b>		
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)		<b>1.0107</b>				
<b>STEP 3: SERVICE CATEGORY RATIOS</b>							
12.	= Step 1, or for C&I Demand, Step 1 x Step 2	<b>1.0094</b>	<b>1.0129</b>	<b>1.0069</b>	<b>1.2181</b>	<b>0.8392</b>	<b>0.7813</b>
		(4)	(4)	(4) x (11)	(4) x (7)	(4) x (8)	(4)

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

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

Highlighted values have been revised.

**CCOSS - Page 2**

	Distribution Cost - 2021	Secondary	Primary	Transmission Transformed	Total
1	Sec - Line 33	\$593			\$593
2	Pri - Line 32	\$3,257	\$687		\$3,944
3	Sub - Line 31	\$2,116	\$435		\$2,550
4	Total	\$5,966	\$1,122	\$0	\$7,087

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		3,355

Cost per kW - 2021

18	Sec (1) / (15)	\$0.20			\$0.20	(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)	\$0.20	\$0.60	\$0.50
Tr Transformed (a) + (b)	\$1.39	\$1.10	\$1.40
Transmission (a) + (b) + (c)	\$2.15	\$1.50	\$2.10

Highlighted values have been revised.

	Secondary	Primary	Transmission 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	6.620 ¢	6.525 ¢	6.429 ¢	6.369 ¢
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**Energy Voltage Discount - per kWh**

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