

Direct Testimony and Schedules  
Nicholas N. Paluck

Before the North Dakota Public Service Commission  
State of North Dakota

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

Case No. PU-20-\_\_\_\_  
Exhibit\_\_\_\_(NNP-1)

## **Rate Design**

November 6, 2020

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1 **I. INTRODUCTION**

2

3 Q. PLEASE STATE YOUR NAME AND OCCUPATION.

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

7

8 Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

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

14

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

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

23 Schedule 2 – Sales and Revenue by Rate Schedule

24 Schedule 5 – Comparison of Present and Proposed Rates

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

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

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

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

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

14

15 Q. HOW IS YOUR TESTIMONY ORGANIZED?

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

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

21

22

## II. RATE REVENUE ANALYSIS

23

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

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

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

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

8

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

9  
10  
11  
12

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

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

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

- 22
- **Sales and Revenue by Rate Schedule**
    - Filed as Exhibit\_\_\_(NNP-1), Schedule 2;
  - **Revenue by Rate Class**
    - Filed as Exhibit\_\_\_(NNP-1), Schedule 3; and
  - **Sales and Revenue by Rate Schedule and Component Detail**
    - Filed as Exhibit\_\_\_(NNP-1), Schedule 4.
- 23  
24  
25  
26  
27

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

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

7  
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9

**III. CLASS REVENUE RESPONSIBILITY**

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

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

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

24

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

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

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

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

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

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

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

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

5

#### 6 IV. RATE DESIGN PROPOSALS

7

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

10 A. No.

11

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

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

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

20

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

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

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

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

6

7

**Table 3**

8

**Residential Service Customer Charges**

9

<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 10.6 percent was distributed as a 10.4 percent increase for  
14      standard non-heating service and 11.1 percent increase for electric space heating  
15      service. The 0.7 percentage point differential was moderated based on the  
16      corresponding test-year 2021 cost of service differential, which is 2.7 percentage  
17      points.

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

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

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

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

8  
9 Q. ARE GENERAL TIME OF DAY (TOD) SERVICE ENERGY CHARGES DERIVED  
10 FROM THE GENERAL SERVICE ENERGY CHARGE?

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

16  
17 Q. WHAT TOD RATIO DID YOU USE TO SEPARATE THE GENERAL SERVICE BASE  
18 ENERGY CHARGE INTO THE GENERAL TOD SERVICE BASE ENERGY CHARGES?

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

21  
22 One of the goals in designing rates for General TOD Service is to maintain  
23 reasonable continuity in the relationship between on-peak and off-peak charges,  
24 as measured by the TOD Combined Ratio. The TOD Combined Ratio results  
25 from combining the Energy Ratio and TOD fuel cost charges (Fuel Ratio), as  
26 shown on Table 4 below. The Fuel Ratio is prescribed as the marginal energy  
27 cost ratio for the full test year, which for the 2021 test year is a historically low

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

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

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

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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 percent to maintain greater consistency with the Company's  
24 rates in its other jurisdictions. The individual proposed increases for the five  
25 currently available interruptible service categories range from 5.5 percent to 6.3  
26 percent. Table 5 outlines current and proposed interruptible discounts.

1 **Table 5**

2 **Present and Proposed Interruptible Discounts**

3 **NSPM-Minnesota Electric Jurisdiction**

4 (Average Monthly Discount per kW)

5

Tier-PF	2-C	2-B	2-A	1-C	1-B	1-A
Present	\$4.24	\$3.78.	\$3.09	\$5.01	\$4.45	\$3.66
Proposed	\$4.50	\$4.02	\$3.26	\$5.32	\$4.73	\$3.87
Increase	\$0.26	\$0.24	\$0.17	\$0.31	\$0.28	\$0.21
Increase %	6.1%	6.3%	5.5%	6.2%	6.3. %	5.7%

6  
7  
8  
9

10 Q. WHAT IS THE RESULT OF THE C&I DEMAND RATE DESIGN PROCESS ON THE  
11 RELATIVE LEVELS OF PROPOSED DEMAND AND ENERGY CHARGES?

12 A. The application of our proposed cost-based rate design process is that the  
13 proposed demand charges have a lower percent increase than the proposed  
14 energy charges. For firm service at the secondary voltage level, the proposed  
15 percent increase to the average annual demand charge is approximately 9.7  
16 percentage points below the proposed base energy charge increase – based on  
17 an 18.1 percent demand charge increase and a 27.8. percent increase for the  
18 combination of base energy and fuel cost charges.

19  
20 Q. DOES THE PROPOSED C&I DEMAND RATE DESIGN PRODUCE CUSTOMER BILL  
21 INCREASES THAT VARY BY LOAD FACTOR?

22 A. Yes. There is a lower percent increase in customer bills for customers with  
23 higher load factors than for customers with lower load factors. These  
24 differentials for General Service and General Time of Day Service are shown in  
25 Exhibit\_\_\_\_(NNP-1), Schedule 6, with the different percent increases for  
26 customer load factors at 200, 400 and 600 hours of use per month. For a  
27 customer with a demand of 100 kW, the percent increase at the 600 hours use

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

3  
4 Q. HOW WERE THE VOLTAGE DISCOUNTS DERIVED?

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

13  
14 **D. Lighting Services**

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

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

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

6  
7 **E. Fuel Cost Rider**

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

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

14  
15 **F. Tariff Modifications**

16 *1. Peak Controlled Service Rules*

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

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

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

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

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

18  
19 *2. Compliance Rate Book Revisions*

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

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

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

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

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

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

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

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

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

9

10 **G. Rate Design Proposals**

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

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

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

20

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

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

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

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

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

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

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

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

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

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

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

---

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

4  
5 2. *Real Time Pricing (RTP) Service*

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

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

11  
12 Q. WHY IS THE COMPANY PROPOSING TO CANCEL RTP SERVICE?

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

19  
20 Q. IS THE COMPANY UPDATING THE STRUCTURE OF CURRENT TIME OF DAY  
21 TARIFFS IN THIS RATE CASE?

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

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

6  
7 **V. CONCLUSION**  
8

9 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

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

14  
15 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

16 A. Yes, it does.

1 STATE OF NORTH DAKOTA  
2 BEFORE THE  
3 PUBLIC SERVICE COMMISSION  
4  
5


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

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

16  
17 I, the undersigned, being duly sworn, depose and say that the foregoing is the  
18 Direct Testimony of the undersigned, and that such Direct Testimony and the  
19 exhibits or schedules sponsored by me to the best of my knowledge, information  
20 and belief, are true, correct, accurate and complete, and I hereby adopt said testimony  
21 as if given by me in formal hearing, under oath.  
22

23  
24   
25 \_\_\_\_\_  
26 Nicholas N. Paluck  
27

28  
29  
30 Subscribed and sworn to before me, this 21 day of October, 2020.  
31

32   
33 \_\_\_\_\_  
34 Notary Public  
35 My Commission Expires: January 31, 2025  
36



## **Statement of Qualifications and Experience**

### **Nicholas N. Paluck**

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

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

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

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

Service Schedule	Average Customers	MWH Sales			Test Year Revenue (\$1,000s)						Increase	
					Summer		Winter		Annual			
		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	30,549	55,617	61,640	83,326	92,189	8,863	10.64%
Residential TOD	39	571	1,282	1,853	69	77	124	139	193	216	23.09	11.96%
Load Management	398	636	1,225	1,860	78	85	142	154	220	239	18.42	8.35%
<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>30,711</b>	<b>55,883</b>	<b>61,934</b>	<b>83,739</b>	<b>92,644</b>	<b>8,905</b>	<b>10.63%</b>
<b>C&amp;I - Non-Demand</b>												
Small General	7,965	27,042	68,899	95,941	3,384	3,522	7,242	7,580	10,626	11,102	476	4.48%
Small General TOD	733	1,073	2,520	3,593	173	181	336	352	508	534	25	4.98%
Load Management	87	188	1,877	2,065	17	18	128	134	145	152	7	4.51%
<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>3,721</b>	<b>7,706</b>	<b>8,067</b>	<b>11,280</b>	<b>11,788</b>	<b>508</b>	<b>4.50%</b>
<b>C&amp;I - Demand</b>												
General	3,688	214,812	434,282	649,094	23,139	25,706	40,597	45,461	63,736	71,167	7,432	11.66%
General TOD	207	72,686	136,713	209,399	6,324	6,955	10,617	11,735	16,941	18,690	1,749	10.32%
Peak-Controlled	45	8,595	19,891	28,487	877	990	1,861	2,102	2,738	3,092	354	12.94%
Peak-Controlled TOD	14	43,121	79,719	122,840	3,288	3,609	5,771	6,351	9,059	9,960	900	9.94%
Energy-Controlled	56	76,055	137,092	213,146	5,506	6,163	9,795	10,955	15,301	17,118	1,818	11.88%
Real Time Pricing	0	0	0	0	0	0	0	0	0	0	0	
<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>43,423</b>	<b>68,640</b>	<b>76,604</b>	<b>107,774</b>	<b>120,027</b>	<b>12,253</b>	<b>11.37%</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>47,144</b>	<b>76,346</b>	<b>84,671</b>	<b>119,054</b>	<b>131,815</b>	<b>12,761</b>	<b>10.72%</b>
<b>Public Authorities</b>												
Small Mun Pumping	67	254	650	904	32	33	67	70	99	103	4	4.54%
Municipal Pumping	90	5,166	8,707	13,873	593	659	865	972	1,457	1,631	174	11.92%
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>692</b>	<b>933</b>	<b>1,043</b>	<b>1,557</b>	<b>1,735</b>	<b>178</b>	<b>11.45%</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>79,312</b>	<b>134,580</b>	<b>149,282</b>	<b>206,416</b>	<b>228,594</b>	<b>22,178</b>	<b>10.74%</b>
Other Rev Increase					0	17	0	33	0	50	50	
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>79,328</b>	<b>134,580</b>	<b>149,316</b>	<b>206,416</b>	<b>228,644</b>	<b>22,228</b>	<b>10.77%</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>79,328</b>	<b>134,580</b>	<b>149,316</b>	<b>206,416</b>	<b>228,644</b>	<b>22,228</b>	<b>10.77%</b>

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

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

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

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	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	\$92.94	\$76.94	9,892	14,946	24,838	12,527	19,968	32,495	7,657	30.8%
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	18,083	31,194	49,277	4,604	10.3%
<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	\$92.94	\$69.94	3,095	8,601	11,696	3,920	11,879	15,799	4,103	35.1%
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	5,971	17,711	23,682	2,352	11.0%
<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	\$92.94	\$76.94	3,082	4,657	7,740	3,903	6,222	10,126	2,386	30.8%
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	5,303	9,073	14,376	1,406	10.8%
<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	\$92.94	\$69.94	676	1,878	2,554	856	2,594	3,449	896	35.1%
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	1,192	3,662	4,854	501	11.5%

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	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	\$188.13	\$145.38	37	51	87	45	66	111	24	27.4%
Energy	Off MWH	226	432	658	\$25.59	\$25.59	\$36.00	\$36.00	6	11	17	8	16	24	7	40.7%
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	64	102	166	18	12.5%
<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	\$188.13	\$131.20	4	9	13	4	13	17	4	32.7%
Energy	Off MWH	53	212	264	\$25.59	\$25.59	\$36.00	\$36.00	1	5	7	2	8	10	3	40.7%
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	29	38	4	10.4%
<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	\$188.13	\$145.38	0.60	0.83	1.43	0.73	1.09	1.82	0.39	27.4%
Energy	Off MWH	10	20	30	\$25.59	\$25.59	\$36.00	\$36.00	0.26	0.51	0.77	0.37	0.71	1.08	0.31	40.7%
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	1.68	2.91	4.59	0.36	8.5%
<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	\$188.13	\$131.20	0.73	1.85	2.59	0.90	2.53	3.43	0.85	32.7%
Energy	Off MWH	10	40	50	\$25.59	\$25.59	\$36.00	\$36.00	0.26	1.03	1.29	0.36	1.45	1.81	0.52	40.7%
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	1.86	5.75	7.61	0.72	10.5%
<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	\$54.19	\$54.19	18	34	52	23	46	70	18	34.0%
Opt Energy	MWH	108	188	296	\$73.39	\$40.44	\$92.94	\$54.19	8	8	16	10	10	20	5	30.3%
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	51	90	141	9	7.1%



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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$34.20	\$34.20	1	10	10	1	14	15	4	40.3%
Energy	Off3S MWH	3	99	101	\$24.37	\$24.37	\$34.20	\$34.20	0	2	2	0	3	3	1	40.3%
Energy	OffP MWH	0	0	0	\$23.27	\$23.27	\$33.20	\$33.20	0	0	0	0	0	0	0	0.0%
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	29	31	0	0.7%
<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	\$90.08	\$74.08	2,031	4,087	6,118	2,436	5,104	7,540	1,421	23.2%
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	3,522	7,580	11,102	476	4.5%
<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	\$90.08	\$74.08	19	39	58	23	48	71	13	23.2%
Fuel Cost	MWH	254	650	904	\$21.99	\$20.84	\$21.56	\$20.43	6	14	19	5	13	19	0	-2.0%
Riders	MWH	254	650	904	\$9.44	\$9.44	\$0.00	\$0.00	2	6	9	0	0	0	-9	
<b>Total:</b>									32	67	99	33	70	103	4	4.5%
<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	\$155.91	\$120.43	65	109	174	77	135	212	37	21.5%
Energy	Off MWH	386	1,013	1,399	\$25.59	\$25.59	\$36.00	\$36.00	10	26	36	14	36	50	15	40.7%
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	141	277	419	22	5.6%

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$77.97	\$65.55	12	20	32	15	25	41	9	27.2%
Fuel Cost	MWH	193	388	581	\$21.99	\$20.84	\$21.56	\$20.43	4	8	12	4	8	12	0	-2.0%
Riders	MWH	193	388	581	\$9.44	\$9.44	\$0.00	\$0.00	2	4	5	0	0	0	-5	
<b>Total:</b>									39	73	112	40	75	115	3	2.7%
<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	\$46.48	\$46.48	6,327	12,893	19,220	9,306	18,965	28,272	9,052	47.1%
Energy Cr	MWH	10,283	24,832	35,114	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-108	-261	-369	-129	-310	-439	-70	19.0%
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	\$16.30	\$11.95	9,158	12,560	21,717	10,549	15,084	25,633	3,916	18.0%
Fuel Cost	MWH	200,211	408,015	608,225	\$20.93	\$20.93	\$20.67	\$20.67	4,191	8,540	12,731	4,138	8,433	12,570	-160	-1.3%
Riders	KW	647,180	1,262,266	1,909,445	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	200,211	408,015	608,225	\$9.44	\$9.44	\$0.00	\$0.00	1,890	3,852	5,741	0	0	0	-5,741	
<b>Total:</b>									21,724	38,340	60,064	24,137	42,939	67,076	7,012	11.7%
<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	\$46.48	\$46.48	369	672	1,040	542	988	1,530	490	47.1%
Energy Cr	MWH	1,014	1,422	2,436	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-11	-15	-26	-13	-18	-30	-5	19.0%
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	\$16.30	\$11.95	437	557	994	504	669	1,173	178	17.9%
Fuel Cost	MWH	11,663	21,258	32,921	\$20.93	\$20.93	\$20.67	\$20.67	244	445	689	241	439	680	-9	-1.3%
Riders	KW	30,907	55,980	86,887	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	11,663	21,258	32,921	\$9.44	\$9.44	\$0.00	\$0.00	110	201	311	0	0	0	-311	
<b>Total:</b>									1,150	1,860	3,010	1,275	2,080	3,355	344	11.4%
<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	\$46.48	\$46.48	163	275	438	240	405	645	206	47.1%
Energy Cr	MWH	453	717	1,170	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-5	-8	-12	-6	-9	-15	-2	19.0%
Demand	KW	18,930	31,583	50,513	\$14.15	\$9.95	\$16.30	\$11.95	268	314	582	309	377	686	104	17.8%
Fuel Cost	MWH	5,166	8,707	13,873	\$20.93	\$20.93	\$20.67	\$20.67	108	182	290	107	180	287	-4	-1.3%
Riders	KW	18,930	31,583	50,513	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0	
Riders	MWH	5,166	8,707	13,873	\$9.44	\$9.44	\$0.00	\$0.00	49	82	131	0	0	0	-131	
<b>Total:</b>									593	865	1,457	659	972	1,631	174	11.9%



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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$62.90	\$62.90	566	1,074	1,640	837	1,587	2,423	784	47.8%
Energy	Off MWH	21,670	43,215	64,884	\$23.39	\$23.39	\$33.46	\$33.46	507	1,011	1,518	725	1,446	2,171	653	43.1%
Energy Cr	MWH	5,623	11,423	17,046	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-59	-120	-179	-70	-143	-213	-34	19.0%
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	\$16.30	\$11.95	1,101	1,477	2,579	1,268	1,774	3,043	464	18.0%
Off Dmd	KW	2,136	5,099	7,234	\$1.50	\$1.50	\$2.10	\$2.10	3	8	11	4	11	15	4	40.0%
Fuel Cost	On 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	3,488	6,096	9,584	903	10.4%
<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	\$62.90	\$62.90	362	661	1,023	536	976	1,512	489	47.8%
Energy	Off MWH	13,017	23,727	36,743	\$23.39	\$23.39	\$33.46	\$33.46	304	555	859	436	794	1,229	370	43.1%
Energy Cr	MWH	3,885	8,393	12,278	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-41	-88	-129	-49	-105	-153	-25	19.0%
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	\$16.30	\$11.95	615	741	1,356	709	890	1,598	242	17.9%
Off Dmd	KW	69	129	198	\$1.50	\$1.50	\$2.10	\$2.10	0	0	0	0	0	0	0	40.0%
Fuel Cost	On 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	2,069	3,353	5,421	504	10.3%

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$61.90	\$61.90	34	53	87	51	80	130	43	49.3%
Energy	Off MWH	1,320	2,137	3,457	\$22.29	\$22.29	\$32.46	\$32.46	29	48	77	43	69	112	35	45.6%
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	\$15.80	\$11.45	59	65	124	69	79	148	24	19.7%
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	200	290	491	48	10.9%
<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	\$61.90	\$61.90	202	368	569	301	549	850	281	49.3%
Energy	On MWH	9,181	16,735	25,916	\$22.29	\$22.29	\$32.46	\$32.46	205	373	578	298	543	841	264	45.6%
Energy Cr	Off MWH	4,063	7,151	11,214	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-43	-75	-118	-51	-89	-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	\$15.80	\$11.45	316	394	711	369	483	852	141	19.9%
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	1,197	1,996	3,194	294	10.1%

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$46.48	\$46.48	246	577	823	361	849	1,210	388	47.1%
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	\$16.30	\$11.95	113	168	281	130	202	332	51	18.1%
Control Dmd	2A KW	10,363	24,064	34,427	\$8.26	\$8.26	\$10.14	\$10.14	86	199	284	105	244	349	65	22.8%
Control Dmd	2B KW	13,304	24,455	37,759	\$7.57	\$7.57	\$9.38	\$9.38	101	185	286	125	229	354	68	23.9%
Control Dmd	2C KW	945	1,747	2,692	\$7.11	\$7.11	\$8.90	\$8.90	7	12	19	8	16	24	5	25.2%
Control Dmd	1A KW	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B KW	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	474	834	1,308	\$6.34	\$6.34	\$8.08	\$8.08	3	5	8	4	7	11	2	27.4%
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	
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	904	1,942	2,846	326	12.9%
<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	\$45.48	\$45.48	25	50	75	37	74	111	37	49.1%
Energy Cr	MWH	0	0	0	-\$10.50	-\$10.50	-\$12.50	-\$12.50	0	0	0	0	0	0	0	0.0%
Demand	KW	1,368	2,694	4,061	\$13.55	\$9.35	\$15.80	\$11.45	19	25	44	22	31	52	9	20.0%
Control Dmd	2A KW	1,029	2,158	3,187	\$7.66	\$7.66	\$9.64	\$9.64	8	17	24	10	21	31	6	25.8%
Control Dmd	2B KW	0	0	0	\$6.97	\$6.97	\$8.88	\$8.88	0	0	0	0	0	0	0	0.0%
Control Dmd	2C KW	0	0	0	\$6.51	\$6.51	\$8.40	\$8.40	0	0	0	0	0	0	0	0.0%
Control Dmd	1A KW	0	0	0	\$7.09	\$7.09	\$9.03	\$9.03	0	0	0	0	0	0	0	0.0%
Control Dmd	1B KW	0	0	0	\$6.30	\$6.30	\$8.17	\$8.17	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	0	0	0	\$5.74	\$5.74	\$7.58	\$7.58	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	
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	86	160	246	28	12.8%

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$62.90	\$62.90	44	79	123	65	117	182	59	47.8%
Energy	Off MWH	1,352	2,676	4,027	\$23.39	\$23.39	\$33.46	\$33.46	32	63	94	45	90	135	41	43.1%
Energy Cr	MWH	148	215	362	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-2	-2	-4	-2	-3	-5	-1	19.0%
Demand	KW	3,507	6,265	9,772	\$14.15	\$9.95	\$16.30	\$11.95	50	62	112	57	75	132	20	17.9%
Off Dmd	KW	98	352	450	\$1.50	\$1.50	\$2.10	\$2.10	0	1	1	0	1	1	0	40.0%
Control Dmd	2A KW	2,604	3,818	6,422	\$8.26	\$8.26	\$10.14	\$10.14	22	32	53	26	39	65	12	22.8%
Control Dmd	2B KW	877	1,822	2,699	\$7.57	\$7.57	\$9.38	\$9.38	7	14	20	8	17	25	5	23.9%
Control Dmd	2C KW	461	798	1,259	\$7.11	\$7.11	\$8.90	\$8.90	3	6	9	4	7	11	2	25.2%
Control Dmd	1A KW	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B KW	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	0	0	0	\$6.34	\$6.34	\$8.08	\$8.08	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	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	255	439	695	73	11.7%
<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	\$62.90	\$62.90	592	1,079	1,672	875	1,595	2,471	799	47.8%
Energy	Off MWH	26,743	48,745	75,488	\$23.39	\$23.39	\$33.46	\$33.46	626	1,140	1,766	895	1,631	2,526	760	43.1%
Energy Cr	MWH	11,319	20,779	32,098	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-119	-218	-337	-141	-260	-401	-64	19.0%
Demand	KW	34,243	65,572	99,814	\$14.15	\$9.95	\$16.30	\$11.95	485	652	1,137	558	784	1,342	205	18.0%
Off Dmd	KW	598	805	1,403	\$1.50	\$1.50	\$2.10	\$2.10	1	1	2	1	2	3	1	40.0%
Control Dmd	2A KW	0	0	0	\$8.26	\$8.26	\$10.14	\$10.14	0	0	0	0	0	0	0	0.0%
Control Dmd	2B KW	16,508	31,858	48,365	\$7.57	\$7.57	\$9.38	\$9.38	125	241	366	155	299	454	88	23.9%
Control Dmd	2C KW	20,284	32,618	52,901	\$7.11	\$7.11	\$8.90	\$8.90	144	232	376	181	290	471	95	25.2%
Control Dmd	1A KW	0	0	0	\$7.69	\$7.69	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B KW	0	0	0	\$6.90	\$6.90	\$8.67	\$8.67	0	0	0	0	0	0	0	0.0%
Control Dmd	1C KW	0	0	0	\$6.34	\$6.34	\$8.08	\$8.08	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	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	3,333	5,817	9,149	815	9.8%



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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual	
		Summer	Winter	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	\$62.90	\$62.90	65	110	174	96	162	258	83	47.8%
Energy	OnC	MWH	14,369	25,043	39,412	\$40.26	\$40.26	\$60.70	\$60.70	578	1,008	1,587	872	1,520	2,392	806	50.8%
Energy	Off	MWH	2,440	4,249	6,690	\$23.39	\$23.39	\$33.46	\$33.46	57	99	156	82	142	224	67	43.1%
Energy	OffC	MWH	20,412	37,247	57,659	\$22.34	\$22.34	\$32.46	\$32.46	456	832	1,288	663	1,209	1,872	584	45.3%
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	\$16.30	\$11.95	48	57	105	55	69	124	19	17.9%
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	\$9.53	\$9.53	9	96	105	11	119	130	25	23.9%
Control Dmd	1B	KW	24,341	44,434	68,775	\$6.90	\$6.90	\$8.67	\$8.67	168	307	475	211	385	596	122	25.7%
Control Dmd	1C	KW	61,184	92,468	153,653	\$6.34	\$6.34	\$8.08	\$8.08	388	586	974	494	747	1,242	267	27.4%
AnnMinDmd		KW	416	833	1,249	\$1.00	\$1.00	\$1.24	\$1.24	0	1	1	1	1	2	0	24.0%
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	3,226	5,659	8,885	927	11.6%	
<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	\$62.90	\$62.90	0	0	0	0	0	0	0	0.0%
Energy	OnC	MWH	1,834	3,343	5,177	\$40.26	\$40.26	\$60.70	\$60.70	74	135	208	111	203	314	106	50.8%
Energy	Off	MWH	0	0	0	\$23.39	\$23.39	\$33.46	\$33.46	0	0	0	0	0	0	0	0.0%
Energy	OffC	MWH	2,214	4,036	6,250	\$22.34	\$22.34	\$32.46	\$32.46	49	90	140	72	131	203	63	45.3%
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	\$16.30	\$11.95	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	\$9.53	\$9.53	0	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	1,497	2,874	4,371	\$6.90	\$6.90	\$8.67	\$8.67	10	20	30	13	25	38	8	25.7%
Control Dmd	1C	KW	10,116	17,209	27,325	\$6.34	\$6.34	\$8.08	\$8.08	64	109	173	82	139	221	48	27.4%
AnnMinDmd		KW	3,321	6,642	9,963	\$1.00	\$1.00	\$1.24	\$1.24	3	7	10	4	8	12	2	24.0%
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	362	651	1,013	116	12.9%	

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

Charge	Units	Billing Units			Present Rate		Final Rate		Present Revenues			Final Revenues			Increase Annual	Pct Inc. Annual
		Summer	Winter	Annual	Summer	Winter	Summer	Winter	Summer	Winter	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	\$61.90	\$61.90	0	0	0	0	0	0	0.0%
Energy	OnC	MWH	865	1,503	2,368	\$39.16	\$39.16	\$59.70	\$59.70	34	59	93	52	90	141	49 52.5%
Energy	Off	MWH	0	0	0	\$22.29	\$22.29	\$32.46	\$32.46	0	0	0	0	0	0	0.0%
Energy	OffC	MWH	1,276	2,361	3,637	\$21.24	\$21.24	\$31.46	\$31.46	27	50	77	40	74	114	37 48.1%
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	\$15.80	\$11.45	0	0	0	0	0	0	0.0%
Off Dmd		KW	0	6	6	\$0.90	\$0.90	\$1.60	\$1.60	0	0	0	0	0	0	77.8%
Control Dmd	1A	KW	0	0	0	\$7.09	\$7.09	\$9.03	\$9.03	0	0	0	0	0	0	0.0%
Control Dmd	1B	KW	1,521	2,886	4,407	\$6.30	\$6.30	\$8.17	\$8.17	10	18	28	12	24	36	8 29.7%
Control Dmd	1C	KW	3,250	4,834	8,084	\$5.74	\$5.74	\$7.58	\$7.58	19	28	46	25	37	61	15 32.1%
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	169	293	461	50	12.2%
<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	\$61.90	\$61.90	25	45	70	37	68	105	35 49.3%
Energy	OnC	MWH	11,603	21,149	32,752	\$39.16	\$39.16	\$59.70	\$59.70	454	828	1,283	693	1,263	1,955	673 52.5%
Energy	Off	MWH	1,096	1,999	3,095	\$22.29	\$22.29	\$32.46	\$32.46	24	45	69	36	65	100	31 45.6%
Energy	OffC	MWH	17,825	32,489	50,314	\$21.24	\$21.24	\$31.46	\$31.46	379	690	1,069	561	1,022	1,583	514 48.1%
Energy Cr		MWH	6,179	12,339	18,518	-\$10.50	-\$10.50	-\$12.50	-\$12.50	-65	-130	-194	-77	-154	-231	-37 19.0%
Demand		KW	2,481	3,245	5,726	\$13.55	\$9.35	\$15.80	\$11.45	34	30	64	39	37	76	12 19.4%
Off Dmd		KW	69	682	752	\$0.90	\$0.90	\$1.60	\$1.60	0	1	1	0	1	1	1 77.8%
Control Dmd	1A	KW	19,065	33,234	52,299	\$7.09	\$7.09	\$9.03	\$9.03	135	236	371	172	300	472	101 27.4%
Control Dmd	1B	KW	0	0	0	\$6.30	\$6.30	\$8.17	\$8.17	0	0	0	0	0	0	0.0%
Control Dmd	1C	KW	41,448	79,111	120,558	\$5.74	\$5.74	\$7.58	\$7.58	238	454	692	314	600	914	222 32.1%
Fuel Cost	On	MWH	12,203	22,242	34,445	\$26.30	\$26.30	\$25.00	\$25.00	321	585	906	305	556	861	-45 -4.9%
Fuel Cost	Off	MWH	18,921	34,488	53,409	\$16.35	\$16.35	\$17.23	\$17.23	309	564	873	326	594	920	47 5.4%
Riders		KW	63,064	116,272	179,335	\$0.00	\$0.00	\$0.00	\$0.00	0	0	0	0	0	0	0
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	2,407	4,353	6,760	725	12.0%
<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%

**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%

**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%

**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>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	79,312	149,282	228,594	22,178	10.7%

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

		Present	Proposed	Present	Proposed
<b>Residential (D01, D03)</b>		Base Rates		Rates + Fuel	
<b>Customer / Mo.</b>	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
<b>Energy / kWh</b>	Summer	7.339 ¢	9.294 ¢	9.459 ¢	11.441 ¢
	Winter	5.759 ¢	7.694 ¢	7.769 ¢	9.729 ¢
	Winter - Electric Space Heat	5.064 ¢	6.994 ¢	7.074 ¢	9.029 ¢

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

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

		Present	Proposed	Present	Proposed
<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
	Commercial Sec. 3 Phase	\$6.80	\$7.50	\$6.80	\$7.50
	Commercial Primary	\$31.00	\$33.00	\$31.00	\$33.00
<b>Energy / kWh</b>	Residential On-Peak	27.000 ¢	31.000 ¢	29.045 ¢	33.070 ¢
	Commercial On-Peak	27.000 ¢	31.000 ¢	29.116 ¢	33.077 ¢
	Residential Secondary	2.437 ¢	3.420 ¢	4.482 ¢	5.490 ¢
	Commercial Secondary	2.437 ¢	3.420 ¢	4.553 ¢	5.497 ¢
	Commercial Primary	2.327 ¢	3.320 ¢	4.443 ¢	5.397 ¢

		Present	Proposed	Present	Proposed
<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 ¢	9.008 ¢	9.707 ¢	11.162 ¢
	Winter	5.932 ¢	7.408 ¢	8.012 ¢	9.450 ¢

		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 ¢	9.008 ¢	9.707 ¢	11.162 ¢
	Winter	5.932 ¢	7.408 ¢	8.012 ¢	9.450 ¢

		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 ¢	15.591 ¢	15.349 ¢	17.745 ¢
	On-Peak Winter	9.774 ¢	12.043 ¢	11.854 ¢	14.085 ¢
	Off-Peak Summer	2.559 ¢	3.600 ¢	4.754 ¢	5.754 ¢
	Off-Peak Winter	2.559 ¢	3.600 ¢	4.639 ¢	5.642 ¢
	Constant Use - Summer	6.267 ¢	7.797 ¢	8.462 ¢	9.951 ¢
	Constant Use - Winter	5.084 ¢	6.555 ¢	7.164 ¢	8.597 ¢

		Present	Proposed	Present	Proposed
<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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Energy / kWh</b>		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
<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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Energy / kWh</b>		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
<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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
<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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Control Demand / kW</b>	Tier 2 - Level A	\$8.26	\$10.14	\$8.26	\$10.14
	Tier 2 - Level B	\$7.57	\$9.38	\$7.57	\$9.38
	Tier 2 - Level C	\$7.11	\$8.90	\$7.11	\$8.90
	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
<b>Energy / kWh</b>		3.160 ¢	4.648 ¢	5.249 ¢	6.713 ¢
<b>Energy Credit / kWh</b>		-1.050 ¢	-1.250 ¢	-1.050 ¢	-1.250 ¢

		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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Control Demand / kW</b>	Tier 2 - Level A	\$8.26	\$10.14	\$8.26	\$10.14
	Tier 2 - Level B	\$7.57	\$9.38	\$7.57	\$9.38
	Tier 2 - Level C	\$7.11	\$8.90	\$7.11	\$8.90
	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
<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	\$16.30	\$14.15	\$16.30
	Winter	\$9.95	\$11.95	\$9.95	\$11.95
<b>Control Demand / kW</b>	Tier 1 - Level A	\$7.69	\$9.53	\$7.69	\$9.53
	Tier 1 - Level B	\$6.90	\$8.67	\$6.90	\$8.67
	Tier 1 - Level C	\$6.34	\$8.08	\$6.34	\$8.08
<b>Off-Peak Demand / kW</b>		\$1.50	\$2.10	\$1.50	\$2.10
<b>Energy / kWh</b>	Firm On-Peak	4.256 ¢	6.290 ¢	6.881 ¢	8.788 ¢
	Firm Off-Peak	2.339 ¢	3.346 ¢	3.970 ¢	5.067 ¢
	Controllable On-Peak	4.026 ¢	6.070 ¢	6.651 ¢	8.568 ¢
	Controllable Off-Peak	2.234 ¢	3.246 ¢	3.865 ¢	4.967 ¢
	Control Period Energy	10.600 ¢	10.000 ¢	13.225 ¢	12.498 ¢
<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

		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

		Present	Proposed	Present	Proposed
<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

		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**

**RESIDENTIAL SERVICE (Overhead) - D01**

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

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

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

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

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

**RESIDENTIAL SERVICE (Underground) - D03**

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

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

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

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

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

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

On-Peak = 35%

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

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

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

On-Peak = 35%

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

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

**SMALL GENERAL SERVICE**

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

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

**GENERAL SERVICE (Secondary Voltage)**

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

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

**GENERAL SERVICE (Primary Voltage)**

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

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

**GENERAL TOD SERVICE (Secondary Voltage)**

40% On-Peak  
 60% Off-Peak

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

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

**GENERAL TOD SERVICE (Primary Voltage)**

40% On-Peak  
 60% Off-Peak

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

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

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

**Tier 2 Perf Factor B - No Firm Demand**

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

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

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

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

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

**TIER 1 ENERGY-CONTROLLED RIDER (Secondary Voltage)**

40% On-Peak  
 60% Off-Peak

**Perf Factor C - No Firm Demand**

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

		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)

**CCOSS - Page 2**

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

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

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

	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%
<b>Proposed General Service - per kWh</b>				
3 Base Energy and Fuel - 2021	6.715 ¢	6.618 ¢	6.522 ¢	6.460 ¢
<b>Energy Voltage Discount - per kWh</b>				
4 Discount from Secondary - 2021		0.100 ¢	0.190 ¢	0.250 ¢