

**SHAKOPEE PUBLIC UTILITIES
MEMORANDUM**

TO: John Crooks, Utilities Manager

FROM: Joseph D. Adams, Planning & Engineering Director

SUBJECT: Electric Rate/Cost Comparison

DATE: June 26, 2019

~~DRAFT~~

ISSUE

There has been public discussion and inquiries about how SPU electric rates and costs compare to surrounding utilities, i.e. Xcel Energy and MVEC.

BACKGROUND

We have been tracking electric rates and average electric costs (which do not have the same meaning, but unfortunately are often confused with one another) for the other two electric utilities with service territory in Shakopee for several years. We do this to ensure that SPU rates and our customers costs are competitive for electric service.

DISCUSSION

Attached is a recent comparison SPU to Xcel Energy illustrating the monthly and annual costs for an SPU average electric customer in the residential (note Xcel Energy does not have any residential customers in Shakopee), commercial (non-demand), large general (demand over 15 and under 150 kW) and industrial (demand over 150 kw) classifications. Also included is a comparison SPU to MVEC for residential (note MVEC does not have any non-residential customers currently in Shakopee).

Utility rates in general and electric rates in particular may be difficult for the average consumer to navigate, especially when comparing one utility to another because no two have the exact same rate structure. It is virtually useless to compare one utility's energy (\$ per kWh) rate to another when each will have other significant factors, e.g. fixed customer charge and variable adjustments that can be labeled *power cost adjustment* or *fuel cost adjustment* plus other riders depending on the utility that affect the total cost to each customer. It is best for comparison purposes to pick a usage level and then apply each utility's rate structure to that level of usage and arrive at an *effective rate* (\$ per kWh) by adding all the applicable charges for each individual utility and then divide by the kWh usage. This will give a true apple to apples comparison of costs.

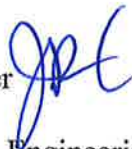
As can be seen, using the SPU average usage for each customer classification, SPU compares favorably with Xcel Energy (15.86% less for residential) and MVEC (4.69% less) and is in fact lower in all classifications, except for the industrial class where there is a modest difference (1.63% higher). These calculations identify the value and take into account the 3% franchise fee paid to the City of Shakopee by the other utilities, while the payment in lieu of taxes equal to 2.7% of electric sales made by SPU to the City of Shakopee is embedded in our rates and paid out of the electric sales revenue generated. And it should be noted that only SPU also donates free service to the City of Shakopee for street lighting energy and maintenance that amounts to approximately another 0.3% of SPU electric sales.


So, as can be seen most SPU customers enjoy lower electric costs and all SPU customers receive superior reliability, with lower incident rates for outages and quicker restoration when outages do occur as noted in the annual reliability report by the electric department recently received by the Commission.

REQUESTED ACTION

This is an informational item and no action is requested at this time.

**SHAKOPEE PUBLIC UTILITIES
MEMORANDUM**

TO: John Crooks, Utilities Manager 

FROM: Joseph D. Adams, Planning & Engineering Director 

SUBJECT: SPU Electric Service Cost Comparisons to Xcel Energy and MVEC

DATE: March 7, 2019

ISSUE

Attached are cost comparisons for each of SPU's electric customer rate classifications, residential, commercial, large general and large industrial services to Xcel Energy and Minnesota Valley Electric Cooperative (MVEC).

BACKGROUND

The State of Minnesota has established electric service territory for each serving utility to avoid duplication of infrastructure and congested right of ways.

Each electric utility sets their rates differently, due to its unique circumstances, so it requires some analysis to accurately compare retail customers' costs.

Electric rates may include several "add on's" or "riders" in addition to base energy (\$/kwh) and demand (\$/peak 15-minute kW). Some of these riders can be a power cost adjustment (PCA) or a Fuel Cost Adjustment (FCA) that is added or subtracted from the monthly bill to account for deviations in purchased power or fuel from the assumed level set in the base rate. This is a way to account for the real time daily fluctuations in those wholesale costs in between adjusting base rates. In principle, the PCA/FCA will rise in high demand periods i.e. summer and fall in low demand periods i.e. non-summer subject to an open market managed by the Federal Energy Regulatory Commission (FERC) and its designated independent regional transmission authorities, such as the Mid-West Interconnected System Operator (MISO). Each utility will calculate and apply its own PCA/FCA each month. Other riders may be for undergrounding lines due to relocation (RUC) mandated by the city and energy conservation programs (CPC) mandated by the state for example.

DISCUSSION

The attachments compare costs by month and annual totals for each utility's known 2019 electric rates using 2018 average monthly usage by each of SPU's customer classes plus the 2018 monthly

fluctuations in each utility's PCA/FCA. Xcel Energy as a state regulated Investor Owned Utility (IOU) has rates on file with the state of Minnesota. MVEC as a member owned cooperative does not have to publish its rates. The only rate class that is known by staff is their residential rates due to some staff having MVEC as their residential utility.

The City of Shakopee has enacted a Franchise Fee Ordinance that applies to Xcel Energy and MVEC and the franchise fee rate is currently set at 3% of each utility's electric revenues with a "circuit breaker" applied to large customers that have annual electric costs over \$950,000 at which point the franchise fee is reduced to 1% for amounts over \$950,000 annually.

SPUC makes a payment in lieu of taxes (PILOT) in place of a franchise fee to the City of Shakopee equal to 2.71 % of electric revenues applied to all elements except for the CPC and the RUC. SPUC also donates free service to the City of Shakopee for the 2,000 plus street lights and some additional trail lights within its service territory. The combined total of SPU's contributions to the city (PILOT plus free service) is approximately equal to 3% of SPU's electric revenues, and these costs are embedded in SPU's electric rates and not added on as a separate line item on customer's bills. Xcel Energy has no known residential customers within the City of Shakopee, only non-residential commercial and industrial customers. MVEC has mostly residential customers within the City of Shakopee, with some small non-residential service points to the city itself for street lighting within its service territory.

When reviewing the data please keep in mind that the data represents simple average (mean) usage in each customer class. In each class, there are customers that use more and customers that use less.

2019 MVEC & SPU Analysis

SPUC Residential Rate - Approximately 15,800 Residential Customers in SPU Service Area

Usage Month	Customer Charge	Total kWh	Energy Charges	PCA Charge	Underground Charge	Relocation	Conservation Program Charge	Total Additional Charges	Total Charges
Jan-18	\$ 9.00	783	\$ 77.36	\$ 8.30	\$ 0.27	\$ 0.24	\$ 1.42	\$ 9.99	\$ 96.35
Feb-18	\$ 9.00	706	\$ 69.75	\$ 9.67	\$ 0.24	\$ 1.33	\$ 1.33	\$ 11.24	\$ 90.00
Mar-18	\$ 9.00	715	\$ 70.64	\$ 7.79	\$ 0.24	\$ 1.32	\$ 9.35	\$ 9.35	\$ 88.99
Apr-18	\$ 9.00	556	\$ 54.93	\$ 5.73	\$ 0.19	\$ 1.05	\$ 6.96	\$ 6.96	\$ 70.90
May-18	\$ 9.00	561	\$ 55.43	\$ 7.35	\$ 0.19	\$ 1.08	\$ 8.62	\$ 8.62	\$ 73.05
Jun-18	\$ 9.00	737	\$ 72.82	\$ 16.58	\$ 0.25	\$ 1.48	\$ 18.31	\$ 18.31	\$ 100.13
Jul-18	\$ 9.00	962	\$ 95.05	\$ 23.95	\$ 0.33	\$ 1.92	\$ 26.21	\$ 26.21	\$ 130.25
Aug-18	\$ 9.00	1023	\$ 101.07	\$ 20.26	\$ 0.35	\$ 1.96	\$ 22.56	\$ 22.56	\$ 132.64
Sep-18	\$ 9.00	921	\$ 90.99	\$ 22.10	\$ 0.31	\$ 1.84	\$ 24.25	\$ 24.25	\$ 124.25
Oct-18	\$ 9.00	739	\$ 73.01	\$ 14.11	\$ 0.25	\$ 1.45	\$ 15.81	\$ 15.81	\$ 97.83
Nov-18	\$ 9.00	548	\$ 54.14	\$ 6.74	\$ 0.19	\$ 1.05	\$ 7.98	\$ 7.98	\$ 71.12
Dec-18	\$ 9.00	666	\$ 65.80	\$ 7.86	\$ 0.23	\$ 1.24	\$ 9.33	\$ 9.33	\$ 84.13
Total	\$ 108.00	8917	\$ 881.00	\$ 150.45	\$ 3.03	\$ 17.14	\$ 170.62	\$ 170.62	\$ 1,159.62

MVEC Residential Rate

Usage Month	Customer Charge	Total kWh	Wholesale Energy Charges	Distribution KWh Sales	Total kWh Charges	Wholesale Power Cost (per kWh)	Franchise Fee	3% Fee	Additional Charges	Total Charges
Jan-18	\$ 10.00	783	\$ 67.73	\$ 23.72	\$ 91.45	\$ (6.11)	\$ 3.04	\$ 3.04	\$ (3.06)	\$ 98.39
Feb-18	\$ 10.00	706	\$ 61.07	\$ 21.39	\$ 82.46	\$ 0.42	\$ 2.77	\$ 2.77	\$ 3.20	\$ 95.66
Mar-18	\$ 10.00	715	\$ 61.85	\$ 21.66	\$ 83.51	\$ 0.29	\$ 2.81	\$ 2.81	\$ 3.09	\$ 96.60
Apr-18	\$ 10.00	556	\$ 48.09	\$ 16.85	\$ 64.94	\$ -	\$ 2.25	\$ 2.25	\$ 2.25	\$ 77.19
May-18	\$ 10.00	561	\$ 48.53	\$ 17.00	\$ 65.52	\$ (0.62)	\$ 2.27	\$ 2.27	\$ 1.65	\$ 77.17
Jun-18	\$ 10.00	737	\$ 63.75	\$ 22.33	\$ 86.08	\$ (1.03)	\$ 2.88	\$ 2.88	\$ 1.85	\$ 97.93
Jul-18	\$ 10.00	962	\$ 91.39	\$ 29.15	\$ 120.54	\$ (1.06)	\$ 3.92	\$ 3.92	\$ 2.86	\$ 133.40
Aug-18	\$ 10.00	1023	\$ 97.19	\$ 31.00	\$ 128.18	\$ (1.74)	\$ 4.15	\$ 4.15	\$ 2.41	\$ 140.59
Sep-18	\$ 10.00	921	\$ 87.50	\$ 27.91	\$ 115.40	\$ (0.18)	\$ 3.76	\$ 3.76	\$ 3.58	\$ 128.98
Oct-18	\$ 10.00	739	\$ 70.21	\$ 22.39	\$ 92.60	\$ 0.44	\$ 3.08	\$ 3.08	\$ 3.52	\$ 106.12
Nov-18	\$ 10.00	548	\$ 47.40	\$ 16.60	\$ 64.01	\$ (0.44)	\$ 2.22	\$ 2.22	\$ 1.78	\$ 75.79
Dec-18	\$ 10.00	666	\$ 57.61	\$ 20.18	\$ 77.79	\$ (1.53)	\$ 2.63	\$ 2.63	\$ 1.10	\$ 88.89
Total	\$ 120.00	8917	\$ 802	\$ 270	\$ 1,072.49	\$ (11.56)	\$ 35.77	\$ 35.77	\$ 24.22	\$ 1,216.71

SPUC Residential Rate Total: \$ 1,159.62 Annual
MVEC Residential Rate Total: \$ 1,216.71 Monthly Effective Rate
Difference: \$ (57.09) \$ 101.39 \$ 0.1364
Percentage Difference: -4.69%

2019 Xcel & SPU Analysis

SPUC Residential Rate - Approximately 15,800 Residential Customers in SPU Service Area

Month	Customer Charge	Total kWh	Energy Charges	PCA Charge	Relocation Underground Program Charge	Conservation Program Charge	Additional Charges	Total Charges
Jan-18	\$ 9.00	783	\$ 77.36	\$ 8.30	\$ 0.27	\$ 1.42	\$ 9.99	\$ 96.35
Feb-18	\$ 9.00	706	\$ 69.75	\$ 9.67	\$ 0.24	\$ 1.33	\$ 11.24	\$ 90.00
Mar-18	\$ 9.00	715	\$ 70.64	\$ 7.79	\$ 0.24	\$ 1.32	\$ 9.35	\$ 88.99
Apr-18	\$ 9.00	556	\$ 54.93	\$ 5.73	\$ 0.19	\$ 1.05	\$ 6.96	\$ 70.90
May-18	\$ 9.00	561	\$ 55.43	\$ 7.35	\$ 0.19	\$ 1.08	\$ 8.62	\$ 73.05
Jun-18	\$ 9.00	737	\$ 72.82	\$ 16.58	\$ 0.25	\$ 1.48	\$ 18.31	\$ 100.13
Jul-18	\$ 9.00	962	\$ 95.05	\$ 23.95	\$ 0.33	\$ 1.92	\$ 26.21	\$ 130.25
Aug-18	\$ 9.00	1023	\$ 101.07	\$ 20.26	\$ 0.35	\$ 1.96	\$ 22.56	\$ 132.64
Sep-18	\$ 9.00	921	\$ 90.99	\$ 22.10	\$ 0.31	\$ 1.84	\$ 24.25	\$ 124.25
Oct-18	\$ 9.00	739	\$ 73.01	\$ 14.11	\$ 0.25	\$ 1.45	\$ 15.81	\$ 97.83
Nov-18	\$ 9.00	548	\$ 54.14	\$ 6.74	\$ 0.19	\$ 1.05	\$ 7.98	\$ 71.12
Dec-18	\$ 9.00	666	\$ 65.80	\$ 7.86	\$ 0.23	\$ 1.24	\$ 9.33	\$ 84.13
Total	\$ 108.00	8917	\$ 881.00	\$ 150.45	\$ 3.03	\$ 17.14	\$ 170.62	\$ 1,159.62

Xcel Residential Rate

Month	Customer Charge	Total kWh	Total kWh Charges	Fuel Cost Charge (per kWh)	Resource Adjustment (per kWh)	Rev. Decoup. Rider (per kWh)	Affordability Charge	3% Franchise Fee	Additional Charges	Total Charges
Jan-18	\$ 10.00	783	\$ 72.36	\$ 21.27	\$ 5.68	\$ 2.40	\$ 0.98	\$ 2.47	\$ 32.80	\$ 115.15
Feb-18	\$ 10.00	706	\$ 65.24	\$ 19.95	\$ 5.13	\$ 2.16	\$ 0.98	\$ 2.26	\$ 30.48	\$ 105.72
Mar-18	\$ 10.00	715	\$ 66.07	\$ 18.50	\$ 5.19	\$ 2.19	\$ 0.98	\$ 2.28	\$ 29.14	\$ 105.22
Apr-18	\$ 10.00	556	\$ 51.38	\$ 13.90	\$ 4.05	\$ 1.70	\$ 0.98	\$ 1.84	\$ 22.47	\$ 83.85
May-18	\$ 10.00	561	\$ 51.84	\$ 15.80	\$ 4.08	\$ 1.72	\$ 0.98	\$ 1.86	\$ 24.44	\$ 86.28
Jun-18	\$ 10.00	737	\$ 68.11	\$ 21.52	\$ 5.35	\$ 2.26	\$ 0.98	\$ 2.34	\$ 32.45	\$ 110.56
Jul-18	\$ 10.00	962	\$ 104.04	\$ 27.31	\$ 7.04	\$ 2.95	\$ 0.98	\$ 3.42	\$ 41.70	\$ 155.74
Aug-18	\$ 10.00	1023	\$ 110.64	\$ 24.82	\$ 7.49	\$ 3.13	\$ 0.98	\$ 3.62	\$ 40.04	\$ 160.68
Sep-18	\$ 10.00	921	\$ 99.61	\$ 25.92	\$ 6.75	\$ 2.82	\$ 0.98	\$ 3.29	\$ 39.75	\$ 149.36
Oct-18	\$ 10.00	739	\$ 79.92	\$ 21.05	\$ 5.42	\$ 2.26	\$ 0.98	\$ 2.70	\$ 32.41	\$ 122.33
Nov-18	\$ 10.00	548	\$ 50.64	\$ 14.52	\$ 3.99	\$ 1.68	\$ 0.98	\$ 1.82	\$ 22.99	\$ 83.63
Dec-18	\$ 10.00	666	\$ 61.55	\$ 18.08	\$ 4.84	\$ 2.04	\$ 0.98	\$ 2.15	\$ 28.09	\$ 99.63
Total	\$ 120.00	8917	\$ 881.39	\$ 242.63	\$ 65.02	\$ 27.32	\$ 11.76	\$ 30.04	\$ 376.77	\$ 1,378.16

SPUC Residential Rate Total: \$ 1,159.62 Annual
 Xcel Residential Rate Total: \$ 1,378.16 Monthly Effective Rate
 Difference: \$ (218.54) \$ (18.21)
 Percentage Difference: -15.86%

2019 Xcel & SPU Analysis

SPUC Commercial Service Rate (less than 15kW demand) - Approximately 1,150 Commercial Customers in SPU Service Area

Usage Month	Customer Charge	Total kWh	Energy Charges	PCA Charge	Relocation Underground Charge	Conservation Program Charge	Total Additional Charges	Total Charges
Jan-18	\$ 14.00	895	\$ 84.49	\$ 9.49	\$ 0.30	\$ 1.62	\$ 11.42	\$ 109.90
Feb-18	\$ 14.00	892	\$ 84.20	\$ 12.22	\$ 0.30	\$ 1.66	\$ 14.18	\$ 112.39
Mar-18	\$ 14.00	926	\$ 87.41	\$ 10.09	\$ 0.31	\$ 1.68	\$ 12.09	\$ 113.50
Apr-18	\$ 14.00	691	\$ 65.23	\$ 7.12	\$ 0.23	\$ 1.30	\$ 8.65	\$ 87.88
May-18	\$ 14.00	680	\$ 64.19	\$ 8.91	\$ 0.23	\$ 1.31	\$ 10.45	\$ 88.64
Jun-18	\$ 14.00	674	\$ 63.53	\$ 15.17	\$ 0.23	\$ 1.40	\$ 16.79	\$ 94.42
Jul-18	\$ 14.00	754	\$ 71.18	\$ 18.77	\$ 0.26	\$ 1.56	\$ 20.59	\$ 105.77
Aug-18	\$ 14.00	779	\$ 73.54	\$ 15.42	\$ 0.26	\$ 1.55	\$ 17.24	\$ 104.78
Sep-18	\$ 14.00	765	\$ 72.22	\$ 18.36	\$ 0.26	\$ 1.57	\$ 20.19	\$ 106.41
Oct-18	\$ 14.00	757	\$ 71.46	\$ 14.46	\$ 0.26	\$ 1.50	\$ 16.22	\$ 101.68
Nov-18	\$ 14.00	707	\$ 66.74	\$ 8.70	\$ 0.24	\$ 1.35	\$ 10.28	\$ 91.02
Dec-18	\$ 14.00	812	\$ 76.65	\$ 9.58	\$ 0.28	\$ 1.51	\$ 11.37	\$ 102.02
Total	\$ 168.00	9332	\$ 880.94	\$ 148.29	\$ 3.17	\$ 18.01	\$ 169.47	\$ 1,218.41

Usage Month	Customer Charge	Total kWh	Energy Charges	Fuel Cost Charge (per kWh)	Resource Adjustment (per kWh)	Rev. Decoup. Rider (per kWh)	Affordability Charge	3% Franchise Fee	Total Additional Charges	Total Charges
Jan-18	\$ 10.00	895	\$ 73.00	\$ 24.61	\$ 6.33	\$ 1.11	\$ 1.27	\$ 2.49	\$ 35.82	\$ 118.81
Feb-18	\$ 10.00	892	\$ 72.75	\$ 25.53	\$ 6.31	\$ 1.11	\$ 1.27	\$ 2.48	\$ 36.70	\$ 119.45
Mar-18	\$ 10.00	926	\$ 75.52	\$ 24.26	\$ 6.55	\$ 1.15	\$ 1.27	\$ 2.57	\$ 35.80	\$ 121.32
Apr-18	\$ 10.00	691	\$ 56.36	\$ 17.49	\$ 4.90	\$ 0.86	\$ 1.27	\$ 1.99	\$ 26.51	\$ 92.87
May-18	\$ 10.00	680	\$ 55.46	\$ 19.39	\$ 4.82	\$ 0.85	\$ 1.27	\$ 1.96	\$ 28.30	\$ 93.76
Jun-18	\$ 10.00	674	\$ 54.97	\$ 19.93	\$ 4.78	\$ 0.84	\$ 1.27	\$ 1.95	\$ 28.77	\$ 93.74
Jul-18	\$ 10.00	754	\$ 73.35	\$ 21.68	\$ 5.40	\$ 0.94	\$ 1.27	\$ 2.50	\$ 31.79	\$ 115.14
Aug-18	\$ 10.00	779	\$ 75.78	\$ 19.14	\$ 5.58	\$ 0.97	\$ 1.27	\$ 2.57	\$ 29.53	\$ 115.31
Sep-18	\$ 10.00	765	\$ 74.42	\$ 21.79	\$ 5.48	\$ 0.95	\$ 1.27	\$ 2.53	\$ 32.03	\$ 116.45
Oct-18	\$ 10.00	757	\$ 73.64	\$ 21.83	\$ 5.42	\$ 0.94	\$ 1.27	\$ 2.51	\$ 31.98	\$ 115.62
Nov-18	\$ 10.00	707	\$ 57.66	\$ 18.96	\$ 5.01	\$ 0.88	\$ 1.27	\$ 2.03	\$ 28.15	\$ 95.82
Dec-18	\$ 10.00	812	\$ 66.23	\$ 22.32	\$ 5.75	\$ 1.01	\$ 1.27	\$ 2.29	\$ 32.64	\$ 108.87
Total	\$ 120.00	9332	\$ 809.14	\$ 256.94	\$ 66.34	\$ 11.62	\$ 15.24	\$ 27.87	\$ 378.02	\$ 1,307.16

SPUC Commercial Service Rate Total: \$ 1,218.41 Effective Rate \$ 0.1306
 Xcel Small General Service Rate Total: \$ 1,307.16 Difference: \$ (88.75)
 Percentage Difference: -6.79%

2019 Xcel & SPU Analysis

SPUC Large Industrial Service Rate (No Primary Discount) - Approximately 100 LIS Customers in SPU Service Area

Usage Month	Customer Charge	Energy Charge up to 400 hrs	Energy Charge past 400 hrs	Total Energy Charges	Billed Demand	Total kW Charges	PCA Charge	Relocation Underground Charge	Conservation Program Charge	Total Additional Charges	Total Charges
Jan-18	\$ 100.00	\$ 8,543.34	\$ 1,337.43	\$ 9,880.77	365.1	\$ 3,468.45	\$ 1,792.96	\$ 57.51	\$ 229.50	\$ 2,079.96	\$ 15,529.19
Feb-18	\$ 100.00	\$ 8,227.44	\$ 1,349.65	\$ 9,577.09	351.6	\$ 3,340.20	\$ 2,246.22	\$ 55.75	\$ 229.79	\$ 2,531.76	\$ 15,549.05
Mar-18	\$ 100.00	\$ 7,831.98	\$ 2,404.97	\$ 10,236.95	334.7	\$ 3,179.65	\$ 1,912.20	\$ 59.65	\$ 232.33	\$ 2,204.17	\$ 15,720.77
Apr-18	\$ 100.00	\$ 7,890.48	\$ 409.33	\$ 8,299.81	337.2	\$ 3,203.40	\$ 1,462.11	\$ 48.26	\$ 196.70	\$ 1,707.07	\$ 13,310.28
May-18	\$ 100.00	\$ 8,697.78	\$ 200.84	\$ 8,898.62	371.7	\$ 3,531.15	\$ 1,993.17	\$ 51.73	\$ 218.62	\$ 2,263.52	\$ 14,793.29
Jun-18	\$ 100.00	\$ 10,377.90	\$ 651.84	\$ 11,029.74	443.5	\$ 4,213.25	\$ 4,244.90	\$ 64.15	\$ 294.78	\$ 4,603.82	\$ 19,946.82
Jul-18	\$ 100.00	\$ 10,408.32	\$ 1,854.82	\$ 12,263.14	444.8	\$ 4,225.60	\$ 5,228.15	\$ 71.39	\$ 328.32	\$ 5,627.87	\$ 22,216.61
Aug-18	\$ 100.00	\$ 10,663.38	\$ 370.55	\$ 11,033.93	455.7	\$ 4,329.15	\$ 3,735.90	\$ 64.15	\$ 288.95	\$ 4,089.00	\$ 19,552.08
Sep-18	\$ 100.00	\$ 10,530.00	\$ 1,971.68	\$ 12,501.68	450	\$ 4,275.00	\$ 5,137.56	\$ 72.78	\$ 331.31	\$ 5,541.65	\$ 22,418.33
Oct-18	\$ 100.00	\$ 10,609.56	\$ 232.68	\$ 10,842.24	453.4	\$ 4,307.30	\$ 3,540.76	\$ 63.03	\$ 282.80	\$ 3,886.59	\$ 19,136.12
Nov-18	\$ 100.00	\$ 8,667.36	\$ 546.73	\$ 9,214.09	370.4	\$ 3,518.80	\$ 1,938.55	\$ 53.59	\$ 222.38	\$ 2,214.52	\$ 15,047.41
Dec-18	\$ 100.00	\$ 8,372.52	\$ 2,206.96	\$ 10,579.48	357.8	\$ 3,399.10	\$ 2,138.75	\$ 61.63	\$ 244.18	\$ 2,444.56	\$ 16,523.14
Total	\$ 1,200.00	\$ 110,820.06	\$ 13,537.50	\$ 124,357.56	395	\$ 44,991.05	\$ 35,371.23	\$ 723.60	\$ 3,099.65	\$ 39,194.48	\$ 209,743.09

Xcel General Service Rate (25 kW-1000 kW Demand)

Usage Month	Customer Charge	Energy Charge	Excess Energy Discount	Total Energy Charges	Billed Demand	Total kW Charges	Fuel Cost Charge (per kWh)	Resource Adjustment (per kWh&MW)	Affordability Charge	3% Franchise Fee	Total Additional Charges	Total Charges
Jan-18	\$ 25.64	\$ 169,147	\$ 6,050.39	\$ 5,682.29	365.1	\$ 4,016.10	\$ 4,507.43	\$ 965.98	\$ 3.60	\$ 291.72	\$ 5,768.73	\$ 15,492.76
Feb-18	\$ 25.64	\$ 163,958	\$ 5,864.78	\$ 5,493.32	351.6	\$ 3,867.60	\$ 4,545.57	\$ 933.81	\$ 3.60	\$ 281.60	\$ 5,764.58	\$ 15,151.14
Mar-18	\$ 25.64	\$ 175,431	\$ 6,275.17	\$ 5,613.26	334.7	\$ 3,681.70	\$ 4,451.91	\$ 953.36	\$ 3.60	\$ 279.62	\$ 5,688.49	\$ 15,009.09
Apr-18	\$ 25.64	\$ 141,952	\$ 5,077.62	\$ 4,964.97	337.2	\$ 3,709.20	\$ 3,480.80	\$ 844.68	\$ 3.60	\$ 260.99	\$ 4,590.07	\$ 13,289.88
May-18	\$ 25.64	\$ 152,150	\$ 5,442.41	\$ 5,387.13	371.7	\$ 4,088.70	\$ 4,204.82	\$ 916.69	\$ 3.60	\$ 285.04	\$ 5,410.15	\$ 14,911.62
Jun-18	\$ 25.64	\$ 188,662	\$ 6,748.44	\$ 6,569.04	443.5	\$ 4,878.50	\$ 5,403.85	\$ 1,117.44	\$ 3.60	\$ 344.20	\$ 6,869.08	\$ 18,342.26
Jul-18	\$ 25.64	\$ 209,966	\$ 7,510.48	\$ 6,999.99	444.8	\$ 4,912.19	\$ 5,847.34	\$ 1,199.82	\$ 3.60	\$ 418.13	\$ 7,468.90	\$ 21,406.72
Aug-18	\$ 25.64	\$ 188,682	\$ 6,749.16	\$ 6,547.17	455.7	\$ 4,081.58	\$ 4,491.20	\$ 1,141.25	\$ 3.60	\$ 412.63	\$ 6,048.68	\$ 19,803.07
Sep-18	\$ 25.64	\$ 214,065	\$ 7,657.11	\$ 7,114.45	450	\$ 6,993.00	\$ 5,909.69	\$ 1,219.32	\$ 3.60	\$ 423.99	\$ 7,556.61	\$ 21,689.70
Oct-18	\$ 25.64	\$ 185,380	\$ 6,631.04	\$ 6,567.00	453.4	\$ 7,045.84	\$ 5,180.07	\$ 1,127.67	\$ 3.60	\$ 409.15	\$ 6,720.50	\$ 20,358.98
Nov-18	\$ 25.64	\$ 157,606	\$ 5,637.57	\$ 5,487.09	370.4	\$ 4,074.40	\$ 4,095.86	\$ 933.41	\$ 3.60	\$ 287.61	\$ 5,320.49	\$ 14,907.62
Dec-18	\$ 25.64	\$ 181,250	\$ 6,483.31	\$ 5,875.90	357.8	\$ 3,925.80	\$ 4,827.41	\$ 988.21	\$ 3.60	\$ 295.12	\$ 6,124.34	\$ 15,961.69
Total	\$ 307.68	\$ 2,128,249	\$ 76,127.47	\$ 72,401.61	395	\$ 60,284.61	\$ 56,945.97	\$ 12,351.63	\$ 43.20	\$ 3,989.82	\$ 73,330.62	\$ 206,324.52

SPUC Large Industrial Service Rate Total: \$ 209,743.09 Effective Rate \$ 0.0986
 Xcel General Service Rate Total: \$ 206,324.52 Effective Rate \$ 0.0969
 Difference: \$ 3,418.57 Percentage Difference: 1.63%

2019 Xcel & SPU Analysis

SPUC Large General Service Rate (15 kW-150 kW Demand) - Approximately 460 LGS Customers in SPU Service Area

Usage Month	Customer Charge	Total kWh	Energy Charges	Billed Demand	Total kW	PCA Charge	Relocation Underground Charge	Conservation Program Charge	Total Additional Charges	Total Charges
Jan-18	\$ 60.00	12130	\$ 709.61	35.1	\$ 333.45	\$ 128.58	\$ 4.12	\$ 18.54	\$ 151.24	\$ 1,254.29
Feb-18	\$ 60.00	12151	\$ 710.83	36	\$ 342.00	\$ 166.47	\$ 4.13	\$ 19.25	\$ 189.85	\$ 1,302.69
Mar-18	\$ 60.00	12808	\$ 749.27	35.4	\$ 336.30	\$ 139.61	\$ 4.35	\$ 19.34	\$ 163.30	\$ 1,308.87
Apr-18	\$ 60.00	10214	\$ 597.52	34.1	\$ 323.95	\$ 105.20	\$ 3.47	\$ 16.35	\$ 125.03	\$ 1,106.50
May-18	\$ 60.00	10451	\$ 611.38	36.3	\$ 344.85	\$ 136.91	\$ 3.55	\$ 17.35	\$ 157.81	\$ 1,174.05
Jun-18	\$ 60.00	11971	\$ 700.30	40.9	\$ 388.55	\$ 269.35	\$ 4.07	\$ 21.33	\$ 294.75	\$ 1,443.61
Jul-18	\$ 60.00	13472	\$ 788.11	42.8	\$ 406.60	\$ 335.45	\$ 4.58	\$ 23.92	\$ 363.95	\$ 1,618.67
Aug-18	\$ 60.00	12639	\$ 739.38	42.3	\$ 401.85	\$ 250.25	\$ 4.34	\$ 21.84	\$ 276.39	\$ 1,477.62
Sep-18	\$ 60.00	12753	\$ 746.05	42.1	\$ 399.95	\$ 306.07	\$ 4.00	\$ 22.75	\$ 333.15	\$ 1,539.15
Oct-18	\$ 60.00	11756	\$ 687.73	40.9	\$ 388.55	\$ 224.54	\$ 4.00	\$ 20.47	\$ 249.01	\$ 1,385.28
Nov-18	\$ 60.00	9851	\$ 576.28	34.2	\$ 324.90	\$ 121.17	\$ 3.35	\$ 16.29	\$ 140.80	\$ 1,101.99
Dec-18	\$ 60.00	11727	\$ 686.03	34.4	\$ 326.80	\$ 138.38	\$ 3.99	\$ 18.23	\$ 160.59	\$ 1,233.42
Total	\$ 720.00	141923	\$ 8,302.50	38	\$ 4,317.75	\$ 2,321.98	\$ 48.25	\$ 235.66	\$ 2,605.89	\$ 15,946.13

Xcel General Service Rate (25 kW-1000 kW Demand)

Usage Month	Customer Charge	Total kWh	Energy Charges	Excess Energy Discount	Total Energy Charges	Billed Demand	Total kW	Fuel Cost Charge (per kWh)	Resource Adjustment (per kWh&KW)	Affordability Charge	3% Franchise Fee	Total Additional Charges	Total Charges
Jan-18	\$ 25.64	12130	\$ 433.89	-	\$ 433.89	35.1	\$ 386.10	\$ 323.24	\$ 79.08	\$ 3.60	\$ 25.37	\$ 431.29	\$ 1,276.92
Feb-18	\$ 25.64	12151	\$ 434.64	-	\$ 434.64	36	\$ 396.00	\$ 326.87	\$ 80.12	\$ 3.60	\$ 25.69	\$ 446.28	\$ 1,302.56
Mar-18	\$ 25.64	12808	\$ 458.14	-	\$ 458.14	35.4	\$ 389.40	\$ 325.03	\$ 81.71	\$ 3.60	\$ 26.20	\$ 436.54	\$ 1,309.72
Apr-18	\$ 25.64	10214	\$ 365.35	-	\$ 365.35	34.1	\$ 375.10	\$ 250.46	\$ 71.48	\$ 3.60	\$ 22.98	\$ 348.52	\$ 1,114.61
May-18	\$ 25.64	10451	\$ 373.83	-	\$ 373.83	36.3	\$ 399.30	\$ 288.82	\$ 74.64	\$ 3.60	\$ 23.96	\$ 391.03	\$ 1,189.80
Jun-18	\$ 25.64	11971	\$ 428.20	-	\$ 428.20	40.9	\$ 449.90	\$ 342.89	\$ 84.75	\$ 3.60	\$ 27.11	\$ 458.35	\$ 1,362.09
Jul-18	\$ 25.64	13472	\$ 481.89	-	\$ 481.89	42.8	\$ 665.11	\$ 375.18	\$ 92.87	\$ 3.60	\$ 35.18	\$ 506.83	\$ 1,679.48
Aug-18	\$ 25.64	12639	\$ 452.10	-	\$ 452.10	42.3	\$ 657.34	\$ 300.85	\$ 89.48	\$ 3.60	\$ 34.05	\$ 427.98	\$ 1,563.06
Sep-18	\$ 25.64	12753	\$ 456.17	-	\$ 456.17	42.1	\$ 654.23	\$ 352.07	\$ 89.65	\$ 3.60	\$ 34.08	\$ 479.41	\$ 1,615.46
Oct-18	\$ 25.64	11756	\$ 420.51	-	\$ 420.51	40.9	\$ 635.59	\$ 328.50	\$ 84.94	\$ 3.60	\$ 32.45	\$ 449.49	\$ 1,531.23
Nov-18	\$ 25.64	9851	\$ 352.37	-	\$ 352.37	34.2	\$ 376.20	\$ 256.01	\$ 70.35	\$ 3.60	\$ 22.63	\$ 352.58	\$ 1,106.79
Dec-18	\$ 25.64	11727	\$ 419.47	-	\$ 419.47	34.4	\$ 378.40	\$ 312.34	\$ 76.96	\$ 3.60	\$ 24.71	\$ 417.60	\$ 1,241.11
Total	\$ 307.68	141923	\$ 5,076.59	-	\$ 5,076.59	38	\$ 5,762.67	\$ 3,792.25	\$ 976.04	\$ 43.20	\$ 334.41	\$ 5,145.90	\$ 16,292.84

SPUC Large General Service Rate Total: \$ 15,946.13 Effective Rate
 Xcel General Service Rate Total: \$ 16,292.84 0.1124
 Difference: \$ (346.71)
 Percentage Difference: -2.13%