

# November 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3 Daylight Saving Time Ends	4 7:00 pm City Council	5 Election Day	6	7	8 8:00 am - Joint Mtg Finance & Budget Committee and City Council/Review 2020 Budget	9 8:00 am - Joint Mtg Finance & Budget Committee and City Council/Review 2020 Budget
10	11 6:15 pm Electric Comm. 6:15 pm BOPA 6:45 pm Muni Prop. Comm.	12	13	14	15	16
17	18 5:30 pm Pool Comm. Mtg. 6:00 pm Park & Rec Comm. 7:00 pm City Council	19	20	21	22	23
24	25 6:30 pm Finance & Budget 7:30 pm Safety & HR Comm (w/Townships)	26 4:30 pm Civil Service	27 6:30 pm Park & Rec Board	28 Thanksgiving Day	29	30
				CITY OFFICES CLOSED	CITY OFFICES CLOSED <i>Floating Holiday</i>	

*City of Napoleon, Ohio*

## **ELECTRIC COMMITTEE**

Meeting Agenda

**Monday, November 11, 2019 at 6:15 pm**

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1) Approval of Minutes: October 14, 2019 (In the absence of any objections or corrections, the Minutes shall stand approved)
- 2) Review/Approval of the Power Supply Cost Adjustment Factor for November 2019: PSCA 3-month averaged factor \$0.00831; JV2 \$0.017383
- 3) Update on Condition of Substations
- 4) Electric Department Reports
- 5) Any other matters to come before the Committee
- 6) Adjournment



Roxanne Dietrich  
Clerk of Council

## **ELECTRIC COMMITTEE**

### Meeting Minutes

**Monday, October 14, 2019 at 6:15 pm**

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#### **PRESENT**

Committee Members  
Board of Public Affairs  
City Manager  
Recording Secretary  
City Staff

Travis Sheaffer-Chair (arrived at 6:17 pm), Lori Siclair, Joseph D. Bialorucki  
Dr. David Cordes-Chair, Mike DeWit, Rory Prigge  
Joel Mazur  
Roxanne Dietrich  
Dennie Clapp-Electric Distribution Superintendent;  
Todd Wachtman-Substation Specialist  
AMP-Efficiency Smart (Sean Clement, Randy Corbin)  
Northwest Signal

#### **ABSENT**

#### **Call to Order**

Acting Chair Bialorucki called the Electric Committee meeting to order at 6:15 pm.

#### **Approval of Minutes**

Hearing no corrections or objections, the minutes from the September 09, 2019 Electric Committee meeting stand approved as presented.

#### **Sheaffer Arrived**

Sheaffer arrived at 6:17 pm.

#### **Motion to Accept the BOPA Recommendation to Approve the October 2019 PSCAF**

Motion: Siclair Second: Bialorucki  
to accept the BOPA recommendation to approve the Power Supply Cost Adjustment Factor for October 2019 as PSCA three month averaged factor \$0.00794 and JV2 \$0.021949.

#### **Passed Yea-3 Nay-0**

Roll call vote on the above motion:  
Yea-Siclair, Sheaffer, Bialorucki  
Nay-

#### **Efficiency Smart Agreement**

Mazur reported this is the third year of our three-year contract, we have been in the Efficiency Smart Program for nine years. Efficiency Smart has been a very helpful tool with economic development, we've been able to retain businesses here and the program has also helped businesses expand. Part of the Efficiency Smart contract offers incentives to become more energy efficient but, what it comes down to is rates.

#### **AMP Presentation**

Sean Clement and Randy Corbin from AMP gave a presentation on the Efficiency Smart program. Clement began Efficiency Smart can be useful to both your community and your customers, there are four main benefits of the program.

**Customer Engagement and Satisfaction** - we just launched a new electric bill advice website. If a customer has issues with the amount of their usage, we will go over their bill with them on the phone. People do not connect the cause of

high usage with their bills, as a third party we can validate their bill and tell them things they can do to help reduce their usage.

**Lots of Positive PR** - we are advocates on the value of public power. Everyone takes electricity for granted, our program shows we are reinvesting in the community.

**Economic Development** - we can help retain existing businesses by lowering their operating costs and we can help them meet any sustainability goals they may have. When you lower the operating costs they can reinvest. When you make them more energy efficient they can add things to make their load grow.

**Good Financial Decision** - in 2018 our program reduced power cost to \$22 per MWh program wide, the PGM territory average cost of energy is \$38 per MWh. Capacity and transmission costs are rising at an unsustainable rate that a lot of municipalities are struggling with. We have designed new services, goals and targets to help mitigate those costs. Your current contract is projected to earn one-third of avoided costs received as a benefit to this program in the form of avoided capacity and transmission cost.

Efficiency Smart is a hands on service to help end users reduce their usage in the most objective and beneficial way possible. People do not know where to start and they do not know how to do it, information is critical. We put money behind our recommendations and they believe what we have. Once they've created changes, we try to quantify that. AMP pays a third company to verify the work that we do, our verification rate is 97%. We are here to help people make good investments. Recent changes to the Efficiency Smart program include reaching out to smaller businesses. Small businesses are a really hard market to motivate change as they lack information and the cash flow to make changes. We need to provide more hands on services and get the information they need to them. For the larger businesses we want to expand to more than just lighting, to go into compressed air. We now have a community specific web page for Napoleon, we have online chat features, we have a new heat pump rebate. We still offer the air source heat pump but, now we have a cold climate heat pump that we are able to offer a \$750 rebate on that produces heat more efficiently. DeWit noted the downside is when it is 30 degrees below zero there are not a lot of BTU's to turn on resistance which is a gigantic toaster. Clement stated, for the record, we do not recommend heating your home with a toaster. Bialorucki asked if there is a way to know how much it cost when the TV and lights are left on. Corbin said we have an electric usage monitor that you plug the device into and it will monitor how much the usage is. You can run it for a day and calculate how much you are spending a year. It is the space heater in the bedroom that is hurting you. Dr. Cordes asked about an incentive program for electric cars. Corbin said we have talked about an opportunity to grow the load in a beneficial way, it is critical to manage the peak. If you want to get charging stations, we will want to make sure there is a demand control component so people are not driving the peak prices up. It's about growing the load without growing your peak. There are different ways we can approach this, it's a matter of doing it right so it's healthy for the whole system. We have already hit our goal for this contract cycle, we are at 133%. There has been over 45,000 MWh of lifetime savings that is \$4,177,648 in customer savings. The summer peak reduction of 385 kW has a financial benefit of over \$600,000. Benefit-to-cost ratio is 4.4 to 1 the levelized cost is \$14.28.

Long on power means you have 120% of power needed for next year. At the end of the day, AMP sells back excess power or capacity that you do not utilize into the market at the market rate. You are getting power at \$15/MWh and any power that you do not need will be sold at \$38/MWh. Your decision to join is not about where your position on power is, it's on do we have the ability to invest and is this an investment we want to make. The Enhanced Product comes with a .5% annual load and 0.6% annual peak reduction at \$1.65/MWh retail sales. The price and goal is scaled to your load. The numbers in the MWh goal and Summer kW goal columns are all guaranteed at 70%. So, if we fall anywhere short of 70% of those numbers, we will refund you a pro-rated balance that you pay. Corbin noted the Efficiency Smart Program uses incentives and technical services to promote changes in technology. Bialorucki thanked AMP for the presentation, I wondered why we would encourage our residents and businesses to save on electricity when we are in the business to sell electricity. It now makes sense the program benefits both sides. Clement said in our efforts to reduce we free up money to be spent that results in growth. As transmission costs continue to rise it will get to a point where that expense will be so high that this will be a tremendous relief valve on the cost of your utility system. This program lowers the stress of the power supply cost on your program more than it offsets the KWh side. Mazur stated our contract is up at the end of this year, does the Board and Committee wants to proceed with any of these options. We are long on power, but once the Morgan Stanley contract drops off next year that will really help our customers and our rates. My recommendation would be the Enhanced Performance option as it more whole rounded.

**Motion to Accept BOPA  
Recommendation for  
Efficiency Smart Contract**

Motion: Bialorucki                      Second: Sicclair  
to accept the BOPA recommend to enter into a three-year Enhanced Performance Contract with Efficiency Smart.

**Passed**  
**Yea-3**  
**Nay-0**

Roll call vote on the above motion:  
Yea-Sicclair, Sheaffer, Bialorucki  
Nay-

**Update on Condition of  
Substations**

Mazur stated we have talked about the substations in the past alluding that the transformers are in need of replacement and would be expensive. Encompass looked at our three substations and evaluated the condition of the transformers. Their recommendation was all three have hit the end of their useful life. Todd Wachtman, Substation Technician gave a presentation on the transformers. He noted the recommendation is to rebuild the three substations within the next ten years. Our newest transformer will be 50 years old in ten years, when you get past 50 years you are in the uncomfortable zone of risk. The estimated cost to rebuild all three is \$9.2 million.

**Sheaffer Left**

Sheaffer left at 8:00 pm  
Bialorucki noted it looks like the full amount will be debted, nothing has been set aside over the last 10-20 years knowing the transformers will not last forever. Clapp replied it was not our decision, we will have ten years to work the debt out, there could be a 1.5 cent increase in power. We do have money in an emergency fund that we could use as a down payment. Wachtman said there are a lot of irons in the fire on other projects. We are asking to kick start this and take a

serious look at substations for the next ten years. In next year's budget you may see design for this. We've focused on extension and not replacement knowing it was coming. Mazur noted the electric development fund had about \$3.5 million in it though we had to dip into the account for power cost that went up when the hydro plants came on. DeWit commented ideally you make a separate fund then you cannot dip into the emergency fund as easily. Mazur said this will affect rates if we take it on ourselves. I'm requesting this item be tabled and we can revisit at next month's meeting. This was just to make you aware you may see engineering costs in the 2020 budget. We are looking into doing what did with the Northside substation, to sell the substations to AMP Transmission to avoid all costs and we may get paid some for any equipment remaining. AMP would still need someone to do maintenance and testing, AMP is paying us to maintain the Northside substation, that would be a way to control our utility rates. The current rate is 12 cents and could jump to 13.5 cents. Next year the Morgan Stanley contract falls off that will reduce our rates about 5%, then in 2028 the JV5 debt comes off and that will have a significant impact on our rates. Wachtman added, it comes down to who wants to spend \$9 million and who wants to profit. Mazur again said, he recommends this item be tabled. Prigge asked if we are better off to sell, I don't like giving up ownership. Wachtman stated this is not a simple issue when you are dealing with generation assets and other debt transmission rates, is not a simple *yes or no*. Siclair said if someone has to take cost and profit how will that affect us in the future if we don't have the opportunity to make a profit. Dr. Cordes said it's the difference between leasing and owning a vehicle. Mazur noted we would have to register as a transmission owner if we owned it, we would want to be a transmission owner in order for this to be integrated as transmission. Wachtman added a key piece is anything put into AMP transmission becomes compliance level regulated, the Northside substation is regulated. DeWit stated they are only doing engineering next year a decision does not have to be made for a whole year. This item will remain on the agenda for next month.

**Electric Department Reports**

Clapp made noted the average load increased .31 MW compared to September of 2018.

**Other Matters**

None

**Motion to Adjourn  
Electric Committee Mtg.**

Motion: Siclair Second: Bialorucki  
to adjourn the Electric Committee meeting at 8:53 pm.

**Passed  
Yea-2  
Nay-0**

Roll call vote on the above motion:  
Yea-Siclair, Bialorucki  
Nay-

**Approved**

**November 11, 2019**

\_\_\_\_\_  
Chair



**CITY OF NAPOLEON, OHIO - PSCAF**  
**POWER SUPPLY COST ADJUSTMENT FACTOR (PSCAF) - COMPUTATION OF MONTHLY PSCAF**  
**COMPUTATIONS WITH CORRECTED DATA FROM JULY, 2015, THROUGH MARCH, 2017**

AMP Billed Usage Month	PSCAF City Billing Month	AMP - kWh Delivered As Listed on AMP Invoices	Purchased Power Supply Costs (*Net of Known) (+ OR - Other Cr's)	Rolling 3-Month Totals Current + Prior 2 Months		Rolling 3 Month Average Cost	Less: Fixed Base Power Supply Cost	PSCA Dollar Difference + or (-)	PSCA-Corrt'd. 3 MONTH AVG.FACTOR + Line Loss
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
		Actual Billed	Actual Billed w/Cr's	c + prior 2 Mo	d + prior 2 Mo	f / e	\$0.07194 Fixed	g + h	i X 1.075
Sept'17	Nov'17	12,915,106	\$ 1,041,374.28	41,815,408	\$ 3,416,494.22	\$ 0.08170	\$ (0.07194)	\$ 0.00976	\$ 0.01049
Oct'17	Dec'17	12,743,776	*\$ 1,064,421.41	39,985,838	\$ 3,288,595.74	\$ 0.08224	\$ (0.07194)	\$ 0.01030	\$ 0.01107
Nov'17	Jan'18	12,424,075	\$ 1,088,533.30	38,082,957	\$ 3,194,328.99	\$ 0.08388	\$ (0.07194)	\$ 0.01194	\$ 0.01284
Dec'17	Feb'18	13,391,143	\$ 1,149,912.68	38,558,994	\$ 3,302,867.39	\$ 0.08566	\$ (0.07194)	\$ 0.01372	\$ 0.01475
Jan'18	Mar'18	13,957,533	\$ 1,336,329.96	39,772,751	\$ 3,574,775.94	\$ 0.08988	\$ (0.07194)	\$ 0.01794	\$ 0.01929
Feb'18	Apr'18	12,213,852	*\$ 914,897.80	39,562,528	\$ 3,401,140.44	\$ 0.08597	\$ (0.07194)	\$ 0.01403	\$ 0.01508
Mar'18	May'18	12,894,285	*\$ 1,115,898.14	39,065,670	\$ 3,367,125.90	\$ 0.08619	\$ (0.07194)	\$ 0.01425	\$ 0.01532
Apr'18	June'18	11,995,837	\$ 1,154,645.74	37,103,974	\$ 3,185,441.68	\$ 0.08585	\$ (0.07194)	\$ 0.01391	\$ 0.01495
May'18	July'18	12,812,421	\$ 1,184,249.00	37,702,543	\$ 3,454,792.88	\$ 0.09163	\$ (0.07194)	\$ 0.01969	\$ 0.02117
June'18	Aug'18	13,813,277	\$ 1,230,516.92	38,621,535	\$ 3,569,411.66	\$ 0.09242	\$ (0.07194)	\$ 0.02048	\$ 0.02202
July'18	Sep'18	15,234,049	\$ 1,312,135.13	41,859,747	\$ 3,726,901.05	\$ 0.08903	\$ (0.07194)	\$ 0.01709	\$ 0.01837
Aug'18	Oct'18	15,634,242	\$ 1,275,023.19	44,681,568	\$ 3,817,675.24	\$ 0.08544	\$ (0.07194)	\$ 0.01350	\$ 0.01451
Sep'18	Nov'18	13,195,770	\$ 1,197,316.71	44,064,061	\$ 3,784,475.03	\$ 0.08589	\$ (0.07194)	\$ 0.01395	\$ 0.01500
Oct'18	Dec'18	12,827,093	\$ 1,201,860.98	41,657,105	\$ 3,674,200.88	\$ 0.08820	\$ (0.07194)	\$ 0.01626	\$ 0.01748
Nov'18	Jan'19	12,694,035	\$ 1,177,330.24	38,716,898	\$ 3,576,507.93	\$ 0.09238	\$ (0.07194)	\$ 0.02044	\$ 0.02197
Dec'18	Feb'19	12,936,598	\$ 1,175,315.11	38,457,726	\$ 3,554,506.33	\$ 0.09243	\$ (0.07194)	\$ 0.02049	\$ 0.02203
Jan'19	Mar'19	13,516,644	\$ 1,157,412.90	39,147,277	\$ 3,510,058.25	\$ 0.08966	\$ (0.07194)	\$ 0.01772	\$ 0.01905
Feb'19	Apr'19	12,112,198	\$ 1,076,627.71	38,565,440	\$ 3,409,355.72	\$ 0.08840	\$ (0.07194)	\$ 0.01646	\$ 0.01769
Mar'19	May'19	12,476,648	\$ 1,111,471.41	38,105,490	\$ 3,345,512.02	\$ 0.08780	\$ (0.07194)	\$ 0.01586	\$ 0.01705
Apr'19	June'19	10,913,916	\$ 1,043,515.66	35,502,762	\$ 3,231,614.78	\$ 0.09102	\$ (0.07194)	\$ 0.01908	\$ 0.02051
May'19	July'19	11,554,553	\$ 1,074,988.04	34,945,117	\$ 3,229,975.11	\$ 0.09243	\$ (0.07194)	\$ 0.02049	\$ 0.02203
June'19	Aug'19	12,448,976	\$ 1,059,406.09	34,917,445	\$ 3,177,909.79	\$ 0.09101	\$ (0.07194)	\$ 0.01907	\$ 0.02050
July'19	Sep'19	15,467,755	\$ 1,165,669.13	39,471,284	\$ 3,300,063.26	\$ 0.08361	\$ (0.07194)	\$ 0.01167	\$ 0.01255
Aug'19	Oct'19	14,297,705	\$ 1,123,690.94	42,214,436	\$ 3,348,766.16	\$ 0.07933	\$ (0.07194)	\$ 0.00739	\$ 0.00794
Sep'19	Nov'19	12,810,364	\$ 1,102,711.16	42,575,824	\$ 3,392,071.23	\$ 0.07967	\$ (0.07194)	\$ 0.00773	\$ 0.00831 >Up

\* Total Includes Other (-) Credits / (+) Debits in Purchased Power Costs, Not Listed on AMP Billings:

**PSCAF - Preparers Signature:**

Name - Lori A. Rausch, Utility Billing Administrator



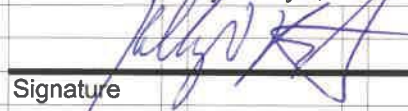
10/21/2019

Signature

Date

**PSCAF - Reviewers Signature:**

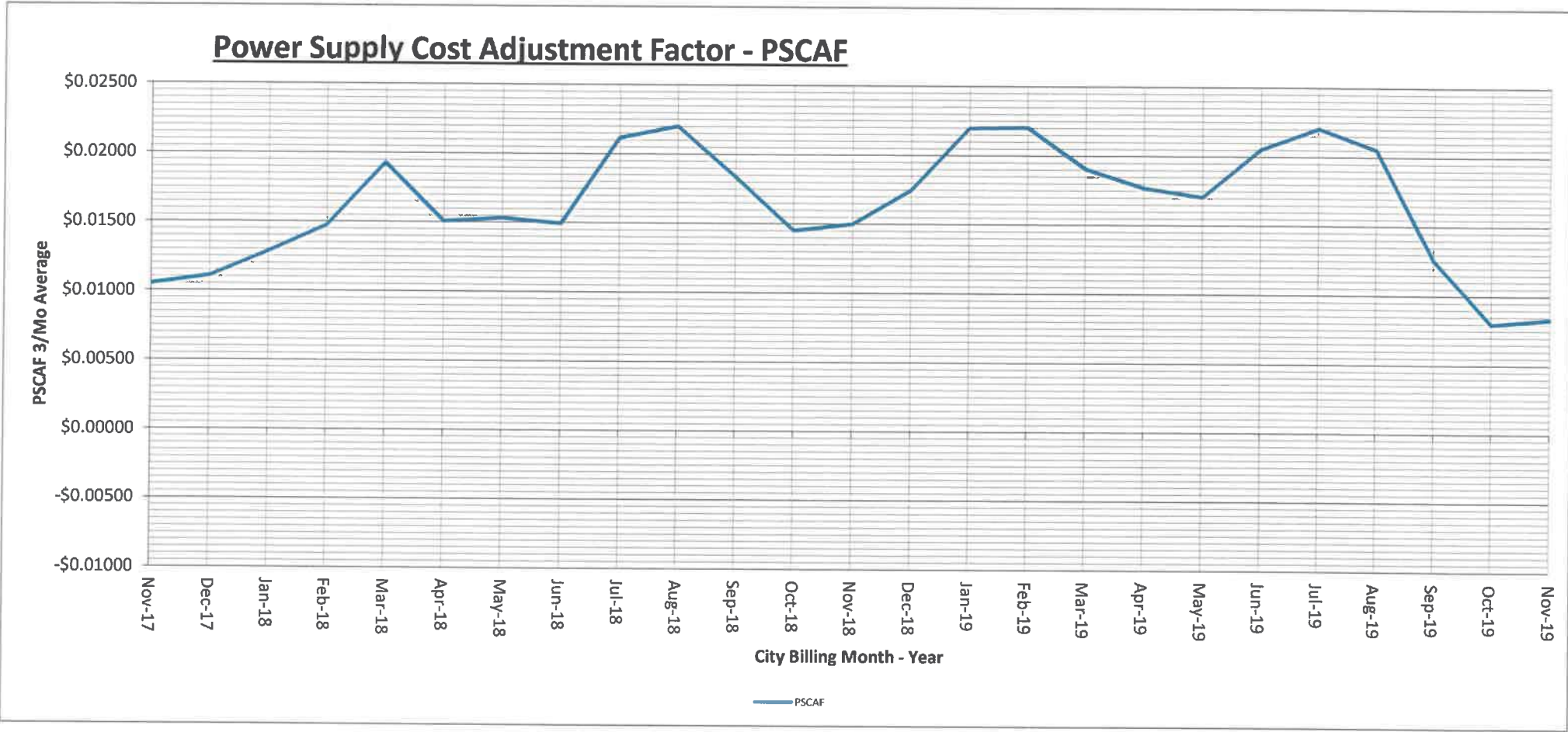
Name - Kelly O'Boyle, Finance Director



10/21/2019

Signature

Date





# **BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - NOVEMBER, 2019**

2019 - NOVEMBER BILLING WITH SEPTEMBER 2019 AMP BILLING PERIOD AND OCTOBER 2019 CITY CONSUMPTION AND BILLING DATA

PREVIOUS MONTH'S POWER BILLS - PURCHASED POWER KWH AND COST ALLOCATIONS BY DEMAND & ENERGY:

DATA PERIOD	MONTH / YR	DAYS IN MONTH	MUNICIPAL PEAK						
AMP-Ohio Bill Month	SEPTEMBER, 2019	30	29.361						
City-System Data Month	OCTOBER, 2019	31							
City-Monthly Billing Cycle	NOVEMBER, 2019	30							
=====CONTRACTED AND OPEN MARKET POWER=====									
=====PEAKING=====									
=====HYDRO POWER=====									
PURCHASED POWER-RESOURCES ->	AMP CT	FREEMONT ENERGY	PRAIRIE STATE SCHED. @ PJMC	MORGAN STNLY REPLMNT.2015-20	NORTHERN POWER	JV-2 PEAKING	AMP-HYDRO CSW	MELDAHL-HYDRCS SCHED. @	GREENUP HYDRCS SCHED. @
	SCHED. @ ATSI	SCHEDULED	REPLMT @ PJMC	7x24 @ AD	POOL	SCHED. @ ATSI	SCHED. @ PJMC	MELDAHL BUS	GREENUP BUS
Delivered kWh (On Peak) ->	49,709	4,493,928	2,102,017	2,736,000	391,405	1,082	1,018,191	123,348	111,810
Delivered kWh (Off Peak) ->					154,557				
Delivered kWh (Replacement/Losses/Offset) ->									
Delivered kWh/Sale (Credits) ->					-1,404,868				
Net Total Delivered kWh as Billed ->	49,709	4,493,928	2,102,017	2,736,000	-858,906	1,082	1,018,191	123,348	111,810
Percent % of Total Power Purchased->	0.3880%	35.0805%	16.4087%	21.3577%	-6.7048%	0.0084%	7.9482%	0.9629%	0.8728%
<b>COST OF PURCHASED POWER:</b>									
<b>DEMAND CHARGES (+Debits)</b>									
Demand Charges	\$33,212.27	\$38,054.14	\$56,969.08			\$655.57	\$174,025.50	\$13,338.52	\$7,776.92
Debt Services (Principal & Interest)		\$43,488.86	\$112,073.04						
<b>DEMAND CHARGES (-Credits)</b>									
Transmission Charges (Demand-Credits)	-\$43,529.85					-\$823.90			
Capacity Credit	-\$32,957.19	-\$20,410.74	-\$10,877.02			-\$818.35	-\$2,457.63	-\$1,209.60	-\$638.14
Sub-Total Demand Charges	-\$43,274.77	\$61,132.26	\$158,165.10	\$0.00	\$0.00	-\$986.68	\$171,567.87	\$12,128.92	\$7,138.78
<b>ENERGY CHARGES (+Debits):</b>									
Energy Charges - (On Peak)	\$4,501.15	\$104,041.57	\$16,913.62	\$172,231.20	\$14,713.59		\$36,654.87	\$4,440.53	\$1,006.29
Energy Charges - (Replacement/Off Peak)					\$3,068.98				
Net Congestion, Losses, FTR		\$3,870.81	\$4,899.81	-\$1,753.60			\$2,098.27	-\$25.01	-\$142.71
Transmission Charges (Energy-Debits)			\$6,887.34						
ESPP Charges									
Bill Adjustments (General & Rate Levelization)		-\$157.91				\$81.10			
<b>ENERGY CHARGES (-Credits or Adjustments):</b>									
Energy Charges - On Peak (Sale or Rate Stabilization)					-\$32,713.22				
Net Congestion, Losses, FTR					\$4,527.78				
Bill Adjustments (General & Rate Levelization)			-\$11,140.69				-\$6,109.14	-\$740.09	-\$670.86
Sub-Total Energy Charges	\$4,501.15	\$107,754.47	\$17,560.08	\$170,477.60	-\$10,402.87	\$81.10	\$32,644.00	\$3,675.43	\$192.72
<b>TRANSMISSION &amp; SERVICE CHARGES, MISC.:</b>									
RPM / PJM Charges Capacity - (+Debit)									
RPM / PJM Charges Capacity - (-Credit)									
Service Fees AMP-Dispatch Center - (+Debit/-Credit)									
Service Fees AMP-Part A - (+Debit/-Credit)									
Service Fees AMP-Part B - (+Debit/-Credit)									
Other Charges & Bill Adjustments - (+Debit/-Credit)									
Sub-Total Service Fees & Other Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL NET COST OF PURCHASED POWER	-\$38,773.62	\$168,886.73	\$175,725.18	\$170,477.60	-\$10,402.87	-\$905.58	\$204,211.87	\$15,804.35	\$7,331.50
Percent % of Total Power Cost->	-3.5162%	15.3156%	15.9357%	15.4599%	-0.9434%	-0.0821%	18.5191%	1.4332%	0.6649%
Purchased Power Resources - Cost per kWh->	-\$0.780012	\$0.037581	\$0.083598	\$0.062309	-\$0.012112	-\$0.836950	\$0.200563	\$0.128128	\$0.065571

**BILLING SUMMARY AND CONS**

2019 - NOVEMBER BILLING WITH SEPTEMBER

PREVIOUS MONTH'S POWER BILLS - PU

**DATA PERIOD**

AMP-Ohio Bill Month

City-System Data Month

City-Monthly Billing Cycle

	=====		====WIND=====	===SOLAR===	===TRANSMISSION, SERVICE FEES & MISC. CONTRACTS===				
	( NYPA	JV-5	JV-6	AMP SOLAR	EFFNCY.SMART	TRANSMISSION	SERVICE FEES	MISCELLANEOUS	TOTAL -
PURCHASED POWER-RESOURCES -> (	HYDRO	HYDRO	WIND	PHASE 1	POWER PLANT	CHARGES	DISPATCH, A & B	CHARGES &	ALL
( SCHED. @ NYIS	7x24 @ ATSI	SCHED. @ ATSI	SCHED. @ ATSI	2017 - 2020	Other Charges	Other Charges	LEVELIZATION	RESOURCES	
Delivered kWh (On Peak) ->	611,003	2,223,360	27,053	139,297	0	0	0	0	14,028,203
Delivered kWh (Off Peak) ->									154,557
Delivered kWh (Replacement/Losses/Offset) ->		32,473							32,473
Delivered kWh/Sale (Credits) ->									-1,404,868
Net Total Delivered kWh as Billed ->	611,003	2,255,833	27,053	139,297	0	0	0	0	12,810,365
Percent % of Total Power Purchased->	4.7696%	17.6094%	0.2112%	1.0874%	0.0000%	0.0000%	0.0000%	0.0000%	100.0000%
Verification Total - >									100.0000%
<b>COST OF PURCHASED POWER:</b>									
<b>DEMAND CHARGES (+Debits)</b>									
Demand Charges	\$6,526.30	\$31,085.29	\$682.37			\$148,756.37			\$511,082.33
Debt Services (Principal & Interest)		\$55,367.84							\$210,929.74
<b>DEMAND CHARGES (-Credits)</b>									
Transmission Charges (Demand-Credits)		-\$15,076.79	-\$136.05	-\$2,890.30					-\$62,456.89
Capacity Credit	-\$2,851.75	-\$9,237.08	-\$234.83	-\$1,689.27					-\$83,381.60
Sub-Total Demand Charges	\$3,674.55	\$62,139.26	\$311.49	-\$4,579.57	\$0.00	\$148,756.37	\$0.00	\$0.00	\$576,173.58
<b>ENERGY CHARGES (+Debits):</b>									
Energy Charges - (On Peak)	\$6,565.10	\$40,968.29		\$5,335.07		\$6,158.69			\$413,529.97
Energy Charges - (Replacement/Off Peak)									\$3,068.98
Net Congestion, Losses, FTR	\$4,158.63								\$13,106.20
Transmission Charges (Energy-Debits)									\$6,887.34
ESPP Charges					\$16,959.16				\$16,959.16
Bill Adjustments (General & Rate Levelization)									-\$76.81
<b>ENERGY CHARGES (-Credits or Adjustments):</b>									
Energy Charges - On Peak (Sale or Rate Stabilization)									-\$32,713.22
Net Congestion, Losses, FTR									\$4,527.78
Bill Adjustments (General & Rate Levelization)	\$152.90								-\$18,507.88
Sub-Total Energy Charges	\$10,876.63	\$40,968.29	\$0.00	\$5,335.07	\$16,959.16	\$6,158.69	\$0.00	\$0.00	\$406,781.52
<b>TRANSMISSION &amp; SERVICE CHARGES, MISC.:</b>									
RPM / PJM Charges Capacity - (+Debit)						\$110,086.49			\$110,086.49
RPM / PJM Charges Capacity - (-Credit)									\$0.00
Service Fees AMP-Dispatch Center - (+Debit/-Credit)							\$0.00		\$0.00
Service Fees AMP-Part A - (+Debit/-Credit)							\$2,867.34		\$2,867.34
Service Fees AMP-Part B - (+Debit/-Credit)							\$7,449.76		\$7,449.76
Other Charges & Bill Adjustments - (+Debit/-Credit)								-\$647.53	-\$647.53
Sub-Total Service Fees & Other Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,086.49	\$10,317.10	-\$647.53	\$119,756.06
TOTAL NET COST OF PURCHASED POWER	\$14,551.18	\$103,107.55	\$311.49	\$755.50	\$16,959.16	\$265,001.55	\$10,317.10	-\$647.53	\$1,102,711.16
Percent % of Total Power Cost->	1.3196%	9.3504%	0.0282%	0.0685%	1.5380%	24.0318%	0.9356%	-0.0587%	100.000%
Purchased Power Resources - Cost per kWh->	\$0.023815	\$0.045707	\$0.011514	\$0.005424	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.086080
(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWh) = JV2 Electric Service Rate - >									\$0.017383
(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWh) = JV5 Electric Service Rate - >									\$0.017383

**AMERICAN MUNICIPAL POWER, INC.**

1111 Schrock Rd, Suite 100

COLUMBUS, OHIO 43229

PHONE: (614) 540-1111

FAX: (614) 540-1078

**INVOICE NUMBER:** 207586**INVOICE DATE:** 10/16/2019**DUE DATE:** 10/31/2019**TOTAL AMOUNT DUE:** \$1,102,711.16**CUSTOMER NUMBER:** 5020**CUSTOMER P.O. #:** RG10046**City of Napoleon**

Attn: Finance Director

255 W. Riverview Ave., P.O. Box 151

Napoleon, Ohio 43545-0151

PLEASE WRITE INVOICE NUMBER ON

REMITTANCE. MAKE CHECK PAYABLE TO AMP

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**Northern Power Pool Billing - September, 2019**

MUNICIPAL PEAK: 29,361 kW  
TOTAL METERED ENERGY: 12,844,407 kWh

Total Power Charges:	\$828,040.04
Transmission / Capacity / Ancillary Services:	\$265,001.55
Total Other Charges:	\$10,317.10
Total Miscellaneous Charges:	-\$647.53

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**GRAND TOTAL POWER INVOICE:** **\$1,102,711.16**

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**\*\* The Total Charges on this invoice may include a credit paid to the Municipal for power supply which was invoiced separately and repurchased by AMP for use as a Northern Power Pool Resource.**

**NOTE: PLEASE SEE ENCLOSED BACKUP FOR MORE DETAILED INFORMATION**

\*\*\* To avoid a delayed payment charge, payment must be made to provide available funds for use by AMP on or before the due date.

**Wire or ACH Transfer Information :**

Huntington National Bank

Columbus, Ohio

Account 0189-2204055

ABA: #044 000024

**Notes:****Mailing Address :**

AMP, Inc.

Dept. L614

Columbus, Oh 43260

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If you have any questions regarding the detail on this invoice, please contact Mitch Gross at [mgross@amppartners.org](mailto:mgross@amppartners.org) or at 614-540-0873.

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**DETAIL INFORMATION OF POWER CHARGES    September, 2019**  
**Napoleon**

FOR THE MONTH OF:

September, 2019

Total Metered Load kWh: 12,844,407  
Transmission Losses kWh: -34,043  
Distribution Losses kWh: 0  
Total Energy Req. kWh: 12,810,364

TIME OF FENTS PEAK:  
TIME OF MUNICIPAL PEAK:  
TRANSMISSION PEAK:

09/11/2019 @ H.E. 14:00  
09/11/2019 @ H.E. 17:00  
September 5, 2018 15:00

COINCIDENT PEAK kW: 27,034  
MUNICIPAL PEAK kW: 29,361  
TRANSMISSION PEAK kW: 30,468  
PJM Capacity Requirement kW: 30,052

**Napoleon Resources**

**AMP CT - Sched @ ATSI**

Demand Charge:	\$2.678409	/ kW *	12,400 kW =	\$33,212.27 ✓
Energy Charge:	\$0.090550	/ kWh *	49,709 kWh = ✓	\$4,501.15 ✓
Transmission Credit:	\$3.510472	/ kW *	-12,400 kW =	-\$43,529.85 ✓
Capacity Credit:	\$2.657838	/ kW *	-12,400 kW =	-\$32,957.19 ✓
<b>Subtotal</b>			<b>49,709 kWh =</b>	<b>-\$38,773.62 ✓</b>

**Fremont - sched @ Fremont**

Demand Charge:	\$4.340567	/ kW *	8,767 kW =	\$38,054.14 ✓
Energy Charge:	\$0.023152	/ kWh *	4,493,928 kWh = ✓	\$104,041.57 ✓
Net Congestion, Losses, FTR:	\$0.000861	/ kWh *		\$3,870.81 ✓
Capacity Credit:	\$2.328109	/ kW *	-8,767 kW =	-\$20,410.74 ✓
Debt Service	\$4.860467	/ kW	8,767 kW	\$43,488.86 ✓
Adjustment for prior month:				-\$157.91 ✓
<b>Subtotal</b>			<b>4,493,928 kWh =</b>	<b>\$168,886.73 ✓</b>

**AMP Hydro CSW - Sched @ PJMC**

Demand Charge:	\$49.750000	/ kW *	3,498 kW =	\$174,025.50 ✓
Energy Charge:	\$0.036000	/ kWh *	1,018,191 kWh = ✓	\$36,654.87 ✓
Net Congestion, Losses, FTR:	\$0.002061	/ kWh *		\$2,098.27 ✓
Capacity Credit:	\$0.702581	/ kW *	-3,498 kW =	-\$2,457.63 ✓
REC Credit (Estimate)	-\$0.006000	/ kWh	1,018,191 kWh	-\$6,109.14 ✓
<b>Subtotal</b>			<b>1,018,191 kWh =</b>	<b>\$204,211.87 ✓</b>

**Meldahl Hydro - Sched @ Meldahl Bus**

Demand Charge:	\$26.465317	/ kW *	504 kW =	\$13,338.52 ✓
Energy Charge:	\$0.036000	/ kWh *	123,348 kWh = ✓	\$4,440.53 ✓
Net Congestion, Losses, FTR:	-\$0.000203	/ kWh *		-\$25.01 ✓
Capacity Credit:	\$2.400000	/ kW *	-504 kW =	-\$1,209.60 ✓
REC Credit (Estimate)	-\$0.006000	/ kWh *	123,348 kWh =	-\$740.09 ✓
<b>Subtotal</b>			<b>123,348 kWh =</b>	<b>\$15,804.35 ✓</b>

**JV6 - Sched @ ATSI**

Demand Charge:	\$2.274567	/ kW *	300 kW =	\$682.37 ✓
Energy Charge:			27,053 kWh ✓	
Transmission Credit:	\$0.453500	/ kW *	-300 kW =	-\$136.05 ✓
Capacity Credit:	\$0.782767	/ kW *	-300 kW =	-\$234.83 ✓
<b>Subtotal</b>			<b>27,053 kWh =</b>	<b>\$311.49 ✓</b>

**Greenup Hydro - Sched @ Greenup Bus**

Demand Charge:	\$23.566424	/ kW *	330 kW =	\$7,776.92 ✓
Energy Charge:	\$0.009000	/ kWh *	111,810 kWh = ✓	\$1,006.29 ✓
Net Congestion, Losses, FTR:	-\$0.001276	/ kWh *		-\$142.71 ✓
Capacity Credit:	\$1.933758	/ kW *	-330 kW =	-\$638.14 ✓
REC Credit (Estimate)	-\$0.006000	/ kWh *	111,810 kWh =	-\$670.86 ✓
<b>Subtotal</b>			<b>111,810 kWh =</b>	<b>\$7,331.50 ✓</b>

**Prairie State - Sched @ PJMC**

Demand Charge:	\$11.448770	/ kW *	4,976 kW =	\$56,969.08 ✓
Energy Charge:	\$0.008046	/ kWh *	2,102,017 kWh = ✓	\$16,913.62 ✓
Net Congestion, Losses, FTR:	\$0.002331	/ kWh *		\$4,899.81 ✓
Capacity Credit:	\$2.185896	/ kW *	-4,976 kW =	-\$10,877.02 ✓
Debt Service	\$22.522717	/ kW	4,976 kW	\$112,073.04 ✓
Transmission from PSEC to PJM/MISO, including non-Prairie State variable charges/credits	\$0.003277	/ kWh	2,102,017 kWh	\$6,887.34 ✓
Board Approved Rate Levelization				-\$11,140.69 ✓
<b>Subtotal</b>			<b>2,102,017 kWh =</b>	<b>\$175,725.18 ✓</b>

**NYPA - Sched @ NYIS**

Demand Charge:	\$6.942872	/ kW *	940 kW =	\$6,526.30 ✓
Energy Charge:	\$0.010745	/ kWh *	611,003 kWh = ✓	\$6,565.10 ✓
Net Congestion, Losses, FTR:	\$0.006806	/ kWh *		\$4,158.63 ✓
Capacity Credit:	\$3.050000	/ kW *	-935 kW =	-\$2,851.75 ✓
Adjustment for prior month:				\$152.90 ✓
<b>Subtotal</b>			<b>611,003 kWh =</b>	<b>\$14,551.18 ✓</b>

**JV5 - 7X24 @ ATSI**

Demand Charge:	\$10.066480	/ kW *	3,088 kW =	\$31,085.29 ✓
Energy Charge:	\$0.018426	/ kWh *	2,223,360 kWh = ✓	\$40,968.29 ✓
Transmission Credit:	\$4.882380	/ kW *	-3,088 kW =	-\$15,076.79 ✓
Capacity Credit:	\$2.981282	/ kW *	-3,088 kW =	-\$9,237.08 ✓
Debt Service (current month)	\$17.930000	/ kW	3,088 kW	\$55,367.84 ✓
<b>Subtotal</b>			<b>2,223,360 kWh =</b>	<b>\$103,107.55 ✓</b>

**JV5 Losses - Sched @ ATSI**

Energy Charge:			32,473 kWh ✓	
<b>Subtotal</b>			<b>32,473 kWh =</b>	<b>\$0.00</b>

**JV2 - Sched @ ATSI**

Demand Charge:	\$2.483220	/ kW *	264 kW =	\$655.57 ✓
Energy Charge:			1,082 kWh ✓	
Transmission Credit:	\$3.120833	/ kW *	-264 kW =	-\$823.90 ✓



**DETAIL INFORMATION OF POWER CHARGES    September, 2019**  
**Napoleon**

Capacity Credit:	\$3.099811	/ kW *	-264 kW =	-\$818.35 ✓
JV2 Project Fuel Costs not recovered through Energy Sales to Market				\$81.10 ✓
<b>Subtotal</b>			<b>1,082 kWh =</b>	<b>-\$905.58 ✓</b>
<b>AMP Solar Phase I - Sched @ ATSI</b>				
Demand Charge:			1,040 kW	
Energy Charge:	\$0.038300	/ kWh *	139,297 kWh ✓	\$5,335.07 ✓
Transmission Credit:				-\$2,890.30 ✓
Capacity Credit:	\$1.624298	/ kW *	-1,040 kW =	-\$1,689.27 ✓
<b>Subtotal</b>			<b>139,297 kWh =</b>	<b>\$755.50 ✓</b>
<b>Morgan Stanley 2015-2020 - 7x24 @ AD</b>				
Demand Charge:			3,800 kW	
Energy Charge:	\$0.062950	/ kWh *	2,736,000 kWh ✓	\$172,231.20 ✓
Net Congestion, Losses, FTR:	-\$0.000641	/ kWh *		-\$1,753.60 ✓
<b>Subtotal</b>			<b>2,736,000 kWh =</b>	<b>\$170,477.60 ✓</b>
<b>Efficiency Smart Power Plant 2017-2020</b>				
ESPP 2017-2020 obligation @ \$1.400 /MWh x 145,364.3 MWh / 12				\$16,959.16 ✓
<b>Subtotal</b>			<b>0 kWh =</b>	<b>\$16,959.16</b>
<b>Northern Power Pool:</b>				
On Peak Energy Charge: (M-F HE 08-23 EDT)	\$0.037592	/ kWh *	391,405 kWh ✓	\$14,713.59 ✓
Off Peak Energy Charge:	\$0.019857	/ kWh *	154,557 kWh ✓	\$3,068.98 ✓
Sale of Excess Non-Pool Resources to Pool	\$0.023286	/ kWh *	-1,404,868 kWh ✓	-\$32,713.22 ✓
Pool Congestion Hedge				\$4,527.78 ✓
<b>Subtotal</b>	<b>\$0.012112</b>	<b>/ kWh *</b>	<b>-858,906 kWh =</b>	<b>-\$10,402.87 ✓</b>
<b>Total Demand Charges:</b>				<b>\$427,499.31</b>
<b>Total Energy Charges:</b>				<b>\$400,541.73</b>
<b>Total Power Charges:</b>			<b>✓ 12,810,364 kWh ✓</b>	<b>\$828,040.04</b>
<b>TRANSMISSION / CAPACITY / ANCILLARY SERVICES:</b>				
Demand Charge:	\$4.882381	/ kW *	30,468 kW =	\$148,756.37
Energy Charge:	\$0.000582	/ kWh *	10,587,004 kWh =	\$6,158.69
RPM (Capacity) Charges:	\$3.663200	/ kW *	30,052 kW =	\$110,086.49
<b>TRANSMISSION / CAPACITY / ANCILLARY SERVICES:</b>	<b>\$0.025031</b>	<b>/ kWh *</b>	<b>10,587,004 kWh =</b>	<b>\$265,001.55</b>
<b>Service Fee Part A,</b>				
Based on Annual Municipal Sales	\$0.000229	/ kWh *	150,253,707 kWh 1/12 =	\$2,867.34
<b>Service Fee Part B,</b>				
Energy Purchases	\$0.000580	/ kWh *	12,844,407 kWh =	\$7,449.76
<b>TOTAL OTHER CHARGES:</b>				<b>\$10,317.10</b>
<b>MISCELLANEOUS CHARGES:</b>				
Prior month adjustment				\$170.78
Credit for PJM capacity revenues generated by Efficiency Smart projects				-\$818.31
<b>TOTAL MISCELLANEOUS CHARGES:</b>				<b>-\$647.53</b>
<b>GRAND TOTAL POWER INVOICE:</b>				<b>✓ \$1,102,711.16 ✓</b>



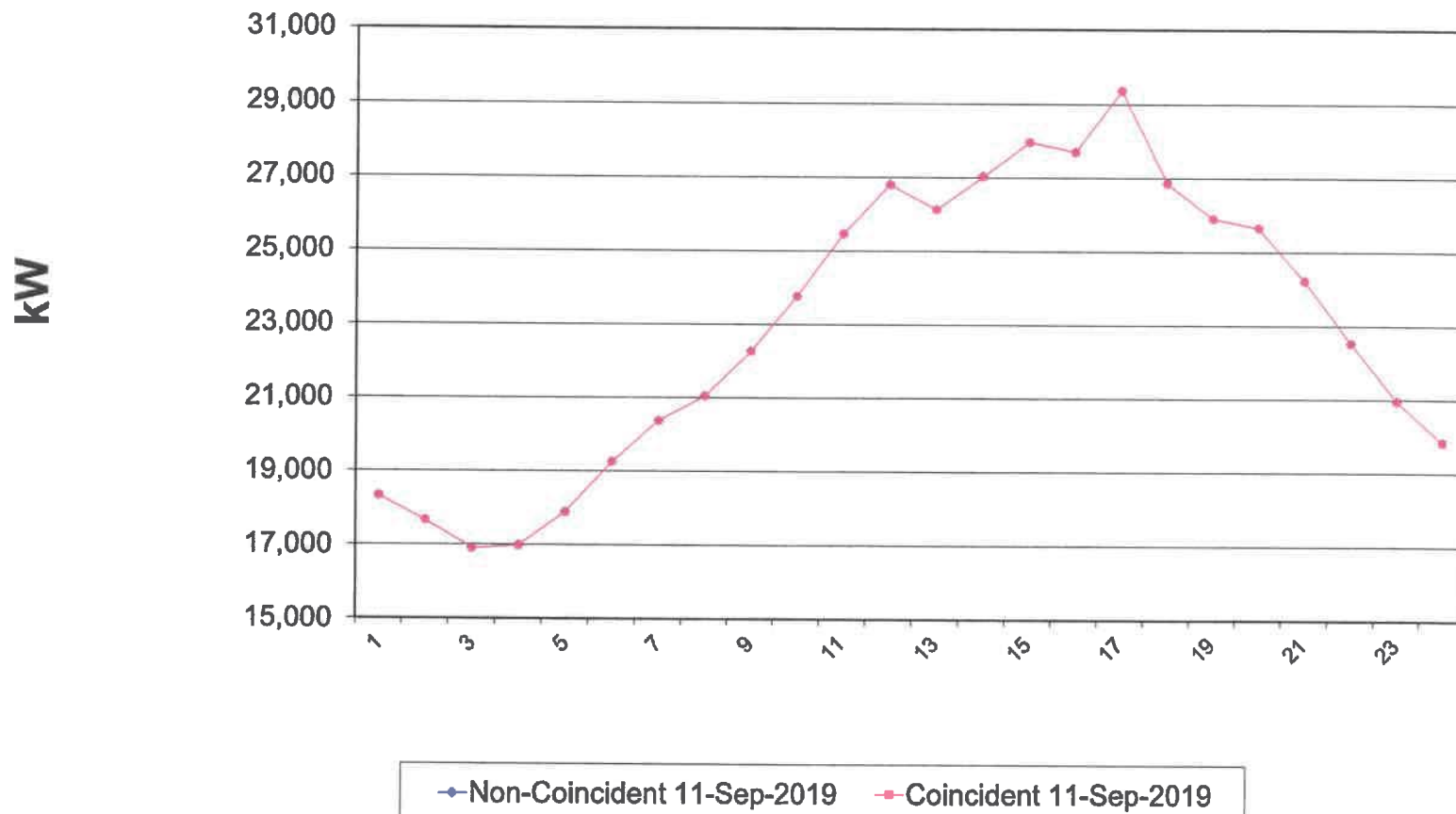
Napoleon Capacity Plan - Actual													
Sep 2019		Days 30		ACTUAL DEMAND =		29.36	MW						
				ACTUAL ENERGY =		12,844	MWH						
	SOURCE (1)	DEMAND MW (2)	DEMAND MW-MO (3)	ENERGY MWH (4)	LOAD FACTOR (5)	DEMAND RATE \$/KW (6)	ENERGY RATE \$/MWH (7)	CONGESTION/L OSSES \$/MWH (8)	CAPACITY CREDIT RATE \$/KW (9)	TRANSMISSION CREDIT RATE \$/KW (10)	TOTAL CHARGES (16)	EFFECTIVE RATE \$/MWH (17)	% OF DOLLARS (18)
1	NYPA - Ohio	0.94	0.94	611	90%	\$7.11	\$10.74	\$6.81	-\$3.03		\$14,551	\$23.82	1.3%
2	JV5	3.09	3.09	2,223	100%	\$28.00	\$18.43		-\$2.99	-\$4.88	\$103,108	\$46.37	9.4%
3	JV5 Losses	0.00	0.00	32	0%						\$0		0.0%
4	JV6	0.30	0.30	27	13%	\$2.27			-\$0.45	-\$0.78	\$311	\$11.51	0.0%
5	AMP-Hydro	3.50	3.50	1,018	40%	\$49.75	\$30.00	\$2.06	-\$0.70		\$204,212	\$200.56	18.6%
6	Meldahl	0.50	0.50	123	34%	\$26.47	\$30.00	-\$0.20	-\$2.40		\$15,804	\$128.13	1.4%
7	Greenup	0.33	0.33	112	47%	\$23.67	\$3.00	-\$1.28	-\$1.93		\$7,332	\$65.57	0.7%
8	AFEC	8.77	8.77	4,494	71%	\$9.30	\$23.12	\$0.86	-\$2.33		\$168,887	\$37.58	15.4%
9	Prairie State	4.98	4.98	2,102	59%	\$33.97	\$6.02	\$2.33	-\$2.19		\$175,725	\$83.60	16.0%
10	AMP Solar Phase I	1.04	1.04	139	19%		\$38.30		-\$1.62	-\$2.78	\$756	\$5.42	0.1%
11	Morgan Stanley 2015-2020 7x24	3.80	3.80	2,736	100%		\$62.95	-\$0.64			\$170,478	\$62.31	15.5%
12	AMPCT	12.40	12.40	50	1%	\$2.68	\$90.55		-\$2.66	-\$3.51	-\$38,774	-\$780.01	-3.5%
13	JV2	0.26	0.26	1	1%	\$2.48	\$74.95		-\$3.10	-\$3.12	-\$906		-0.1%
14	NPP Pool Purchases	0.00	0.00	546	0%		\$41.18				\$22,481	\$41.18	2.0%
15	NPP Pool Sales	0.00		-1,405	0%		\$23.29				-\$32,713	\$23.29	-3.0%
	POWER TOTAL	39.91	39.91	12,810	45%	\$573,409	\$370,575	\$1.02	-\$83,283	-\$62,556	\$811,252	\$63.33	73.8%
16	Energy Efficiency			0							\$16,141		1.5%
17	Installed Capacity	30.05	30.05			\$3.66					\$110,086	\$8.57	10.0%
18	Transmission	30.47	30.47	10,587		\$4.88	\$0.58				\$154,915	\$12.06	14.1%
19	Service Fee B			12,844			\$0.58				\$7,450	\$0.58	0.7%
20	Dispatch Charge			12,844							\$0		0.0%
	OTHER TOTAL					\$258,643	\$29,749				\$288,592	\$22.47	26.2%
GRAND TOTAL PURCHASED				12,810							\$1,099,844		
Delivered to members		29.361	29.361	12,844	61%						\$1,099,844	\$85.63	100.0%
	2019 Forecast	29.15		12,966	62%						TOTAL \$	\$/MWh	Avg Temp
	2018 Actual	32.81		13,224	56%						\$1,117,577	\$86.19	64.1
	2017 Actual	29.15		12,966	62%						\$1,184,542	\$90.33	69.1
											\$1,128,445	\$87.03	66.4
											Actual Temp		70.8

NAPOLEON

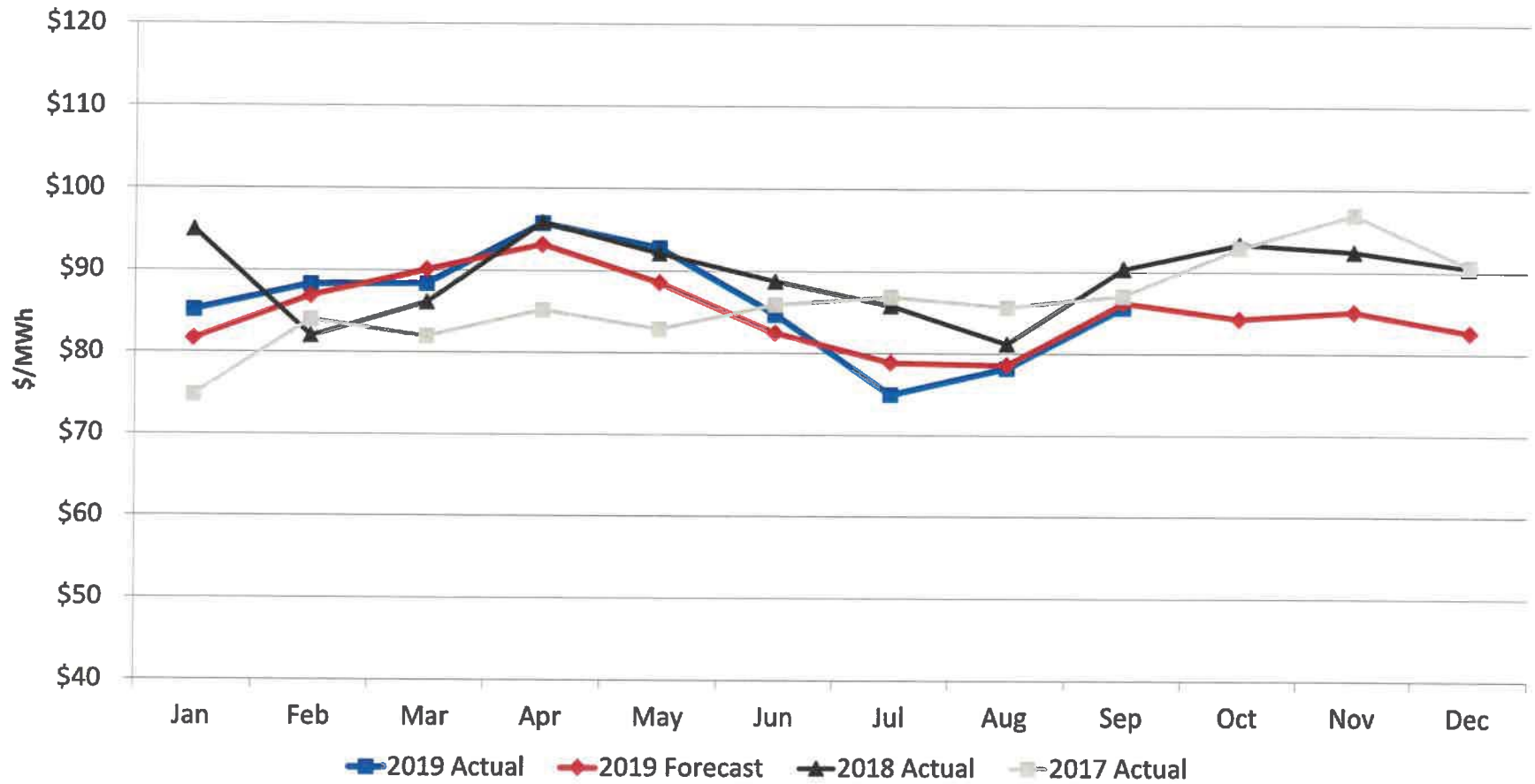
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date	9/1/2019	9/2/2019	9/3/2019	9/4/2019	9/5/2019	9/6/2019	9/7/2019	9/8/2019	9/9/2019	9/10/2019	9/11/2019	9/12/2019	9/13/2019	9/14/2019	9/15/2019
Hour															
100	11,740	11,567	14,704	16,722	15,121	14,685	13,066	12,998	13,734	15,027	18,314	18,723	17,042	14,611	13,373
200	11,478	11,294	14,296	16,084	14,857	14,436	12,873	12,682	13,711	14,766	17,650	17,976	16,542	13,945	13,009
300	11,347	11,288	14,007	15,654	14,478	14,247	12,682	12,541	13,659	14,344	16,897	17,239	15,916	13,460	12,781
400	11,351	11,317	14,479	15,650	14,712	14,429	12,743	12,549	13,918	14,432	16,968	17,214	15,993	13,370	12,647
500	11,480	11,484	15,694	16,773	15,424	15,213	13,095	12,573	14,762	15,366	17,871	18,312	17,183	13,577	12,708
600	11,739	11,877	17,313	17,973	16,703	16,753	13,630	12,816	16,442	16,736	19,242	19,535	18,579	13,971	13,056
700	11,913	12,214	18,258	18,734	17,488	17,628	14,291	13,028	17,477	17,981	20,352	20,706	19,677	14,331	13,425
800	12,659	12,787	19,264	19,623	18,144	18,147	14,826	13,424	17,907	18,903	21,043	21,769	20,322	15,352	14,097
900	13,209	13,682	20,117	20,336	18,670	18,709	15,381	14,024	18,245	19,683	22,257	22,714	21,237	16,317	14,620
1000	13,530	14,773	20,675	21,017	19,025	19,025	15,759	14,488	18,661	20,647	23,756	23,708	22,652	16,862	15,081
1100	14,089	15,660	21,073	21,327	19,510	19,124	16,082	14,898	19,371	21,466	25,467	24,391	24,078	17,285	15,682
1200	14,237	16,191	21,326	21,484	20,159	19,313	16,034	15,383	19,802	22,691	26,802	25,262	25,595	17,418	15,911
1300	14,337	16,676	21,208	21,405	20,147	19,298	16,012	15,471	20,081	24,055	26,125	26,072	27,214	17,586	16,577
1400	14,066	17,078	21,357	21,244	20,181	19,040	15,893	15,425	20,222	24,982	27,034	26,914	28,050	17,785	16,293
1500	13,780	17,383	21,147	20,943	19,847	18,570	16,020	15,516	20,500	25,420	27,965	27,129	27,584	17,974	16,442
1600	13,656	17,647	20,772	20,432	19,603	18,115	16,504	15,495	20,662	25,957	27,709	26,478	24,640	18,247	16,954
1700	13,655	18,245	20,786	19,943	19,259	17,613	16,494	15,616	20,462	26,025	29,361	25,830	24,286	18,351	16,982
1800	13,469	18,473	20,658	19,304	19,281	17,257	16,445	15,746	20,402	25,578	26,857	24,591	23,865	18,057	17,446
1900	13,392	18,053	20,548	18,790	18,761	16,920	15,770	15,603	19,944	24,725	25,894	23,529	23,037	17,259	17,529
2000	13,886	18,324	20,862	19,027	18,702	17,283	16,083	16,291	19,978	24,618	25,656	23,188	22,318	17,183	17,691
2100	13,667	17,658	20,205	18,408	18,231	16,906	15,667	15,930	18,757	23,295	24,215	21,851	20,897	16,608	17,129
2200	13,242	16,390	18,873	17,028	17,056	15,597	14,942	14,958	17,347	21,428	22,525	20,147	19,286	15,602	16,250
2300	12,560	15,893	18,157	16,314	16,111	14,331	14,264	14,534	16,397	20,361	20,955	19,008	17,087	14,675	15,903
2400	12,079	15,388	17,598	15,646	15,450	13,622	13,583	14,103	15,505	19,229	19,827	18,034	15,522	13,889	15,463
Total	310,561	361,342	453,377	449,861	426,920	406,261	358,139	346,092	427,946	497,715	550,742	530,320	508,602	383,715	367,049

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
Date	9/16/2019	9/17/2019	9/18/2019	9/19/2019	9/20/2019	9/21/2019	9/22/2019	9/23/2019	9/24/2019	9/25/2019	9/26/2019	9/27/2019	9/28/2019	9/29/2019	9/30/2019	10/1/2019
Hour																
100	15,061	15,720	15,037	14,893	15,829	15,394	14,741	16,262	14,250	14,767	15,427	13,880	12,519	12,180	13,607	-
200	14,960	15,323	14,799	14,528	15,247	14,805	14,204	15,938	14,132	14,517	15,184	13,845	12,292	11,735	13,647	-
300	14,825	14,877	14,335	13,969	14,667	14,278	13,805	15,578	13,803	14,224	14,789	13,642	12,140	11,474	13,500	-
400	15,113	15,169	14,440	14,147	14,941	14,217	13,693	15,925	14,059	14,469	14,958	14,023	12,282	11,459	13,989	-
500	16,139	16,047	15,325	15,220	15,831	14,487	13,841	17,093	14,701	15,237	15,668	14,713	12,702	11,604	15,624	-
600	17,895	17,456	16,750	16,660	17,278	14,925	14,094	18,743	16,080	16,523	16,929	16,009	13,085	11,881	17,216	-
700	19,109	19,008	17,657	17,548	18,524	15,575	14,495	20,160	17,181	17,859	18,128	17,138	14,038	12,544	18,502	-
800	19,612	19,307	18,145	18,129	19,175	16,554	15,057	20,562	17,733	18,391	18,406	17,597	14,663	13,035	19,119	-
900	20,557	19,749	18,997	18,644	20,095	17,997	16,527	21,367	18,113	18,903	18,968	18,088	15,526	13,574	19,353	-
1000	21,467	20,421	19,585	19,363	20,843	19,300	18,090	21,992	18,637	19,553	19,242	18,425	15,803	13,911	19,771	-
1100	22,646	21,225	20,347	19,896	22,119	19,938	19,374	22,370	19,188	19,866	19,387	18,479	16,135	14,162	20,088	-
1200	23,127	21,400	21,170	20,455	23,452	20,981	20,356	22,857	19,811	20,030	19,721	19,044	16,272	14,531	20,911	-
1300	23,601	21,929	21,462	21,053	24,675	21,974	21,101	22,892	19,992	20,150	19,657	19,289	16,005	14,498	21,896	-
1400	24,029	22,115	21,886	21,850	25,295	21,636	21,292	22,377	20,238	19,925	19,769	19,228	15,734	14,480	22,957	-
1500	24,147	22,379	22,290	22,037	25,566	20,833	21,520	22,061	20,254	19,691	19,547	18,792	15,452	14,274	23,734	-
1600	23,685	22,433	22,350	22,401	25,522	20,698	21,928	21,687	20,257	19,520	19,314	18,465	15,915	14,403	24,068	-
1700	23,329	21,993	22,115	22,425	24,887	20,534	21,351	20,926	19,858	19,115	18,764	17,895	15,848	14,748	24,331	-
1800	22,869	21,143	21,682	22,198	23,827	20,292	20,755	20,022	19,443	19,230	18,312	18,012	15,308	15,047	23,801	-
1900	22,073	20,573	20,790	21,679	22,608	19,897	20,709	19,193	19,308	19,113	17,954	17,901	15,240	15,416	23,328	-
2000	21,852	20,764	20,479	21,672	21,927	19,756	20,526	18,960	19,625	19,338	18,130	17,656	15,206	15,391	22,938	-
2100	20,401	19,272	18,950	20,401	20,626	18,681	19,612	17,936	18,529	18,597	17,145	16,938	14,599	14,876	21,517	-
2200	18,656	17,725	17,439	18,608	19,052	17,530	18,418	16,500	17,144	17,159	15,997	15,790	13,861	14,082	19,896	-
2300	17,320	16,719	16,642	17,411	17,220	16,651	17,590	15,289	16,064	16,443	15,223	14,070	13,351	14,189	18,681	-
2400	16,529	15,831	15,599	16,398	16,141	15,596	17,020	14,734	15,222	15,929	14,527	12,864	12,640	14,103	17,543	-
Total	479,002	442,747	448,271	451,585	485,147	432,529	430,099	461,224	423,622	428,549	421,146	401,783	346,616	327,597	470,017	-
											Maximum	29,361	Minimum	11,288	Grand Total	12,844,407

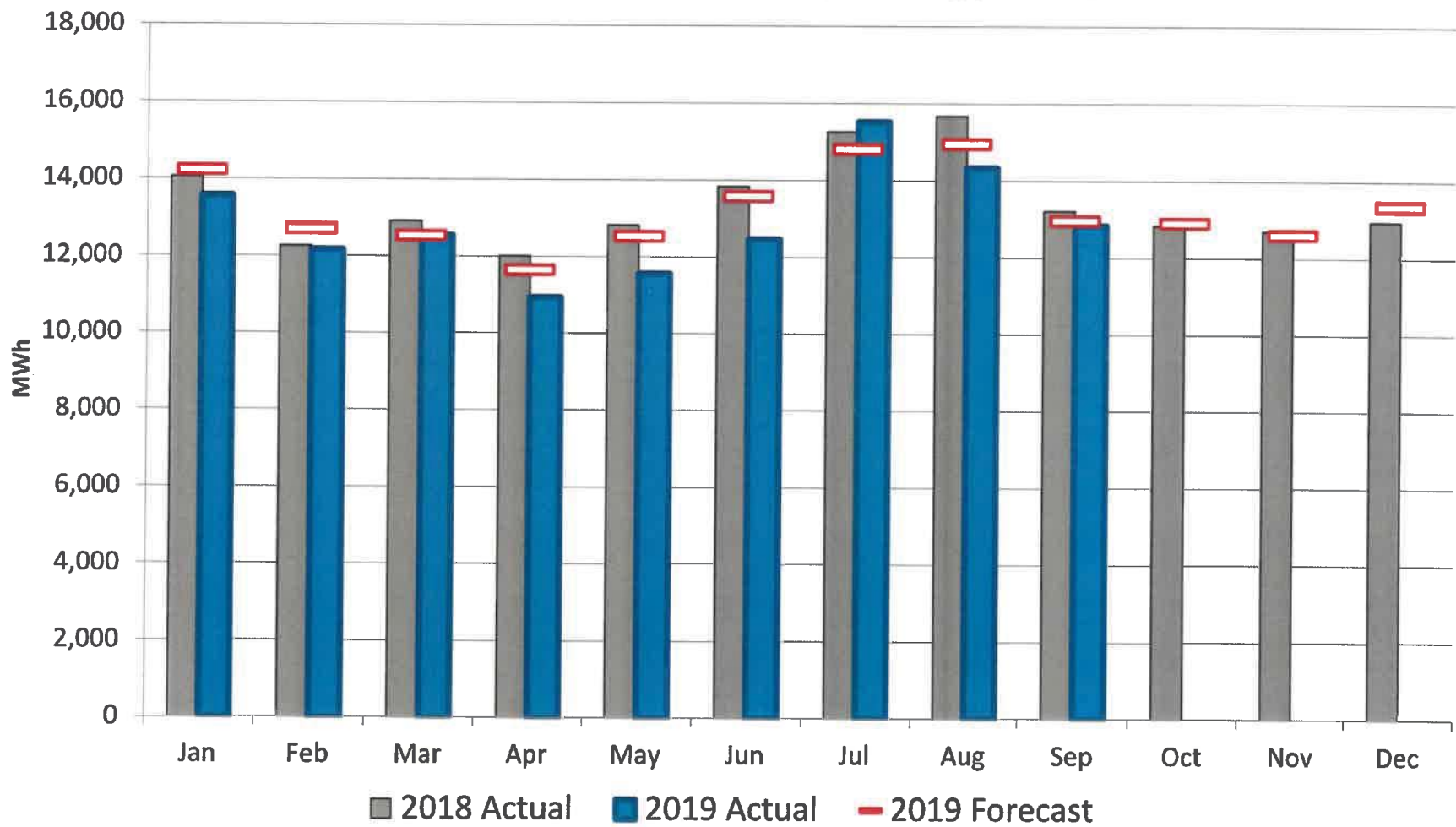
## Napoleon Peak Day Load Curve



## Napoleon 2019 Monthly Rates



## Napoleon 2019 Monthly Energy Usage





**RATE REVIEW COMPARISONS - Current to Prior Month and Prior Year**

**2019 NOVEMBER BILLING - ELECTRIC PSCAF - BILLING COMPARISONS TO PRIOR PERIODS**

Rate Comparisons to Prior Month and Prior Year for Same Period

	Service Usage	Service Units	Current November 2019 Rate	Prior Month October 2019 Rate	Prior Year November 2018 Rate		Service Usage	Service Units	Current November 2019 Rate	Prior Month October 2019 Rate	Prior Year November 2018 Rate
<b>Customer Type -&gt;</b>			<b>RESIDENTIAL USER - (w/Gas Heat)</b>				<b>RESIDENTIAL USER - (All Electric)</b>				
Customer Charge			\$6.00	\$6.00	\$6.00				\$6.00	\$6.00	\$6.00
Distribution Energy Charge			\$20.93	\$20.93	\$20.93				\$33.39	\$33.39	\$33.39
Distribution Demand Charge											
Power Supply Energy Charge	978	kWh	\$71.20	\$71.20	\$71.20		1,976	kWh	\$143.85	\$143.85	\$143.85
Power Supply Demand Charge											
PSCAF - Monthly Factor	978	kWh	\$8.13	\$7.77	\$14.67		1,976	kWh	\$16.42	\$15.69	\$29.64
kWh Tax- Level 1	978	kWh	\$4.55	\$4.55	\$4.55		1,976	kWh	\$9.19	\$9.19	\$9.19
kWh Tax- Level 2											
kWh Tax- Level 3											
<b>Total Electric</b>			<b>\$110.81</b>	<b>\$110.45</b>	<b>\$117.35</b>				<b>\$208.85</b>	<b>\$208.12</b>	<b>\$222.07</b>
Water	6	CCF	\$55.35	\$55.35	\$50.55		11	CCF	\$91.89	\$91.89	\$83.14
Sewer (w/Stm.Sew. & Lat.)	6	CCF	\$74.13	\$74.13	\$70.89		11	CCF	\$104.83	\$104.83	\$98.89
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50				\$9.50	\$9.50	\$9.50
Refuse (Rate/Service)			\$18.00	\$18.00	\$18.00				\$18.00	\$18.00	\$18.00
<b>Sub-Other Services</b>			<b>\$156.98</b>	<b>\$156.98</b>	<b>\$148.94</b>				<b>\$224.22</b>	<b>\$224.22</b>	<b>\$209.53</b>
<b>Total Billing - All Services</b>			<b>\$267.79</b>	<b>\$267.43</b>	<b>\$266.29</b>				<b>\$433.07</b>	<b>\$432.34</b>	<b>\$431.60</b>
Verification Totals->			\$267.79	\$267.43	\$266.29				\$433.07	\$432.34	\$431.60
				<u>Cr.Mo to Pr.Mo</u>	<u>Cr.Yr to Pr.Yr</u>					<u>Cr.Mo to Pr.Mo</u>	<u>Cr.Yr to Pr.Yr</u>
Dollar Chg.to Prior Periods				\$0.36	\$1.50					\$0.73	\$1.47
% Inc/Dec(-) to Prior Periods				0.13%	0.56%					0.17%	0.34%
=====											
Cost/kWh - Electric	978	kWh	\$0.11330	\$0.11293	\$0.11999		1,976	kWh	\$0.10569	\$0.10532	\$0.11238
% Inc/Dec(-) to Prior Periods				0.33%	-5.58%					0.35%	-5.95%
Cost/CCF - Water	6	CCF	\$9.22500	\$9.22500	\$8.42500		11	CCF	\$8.35364	\$8.35364	\$7.55818
Cost/GALLONS - Water	4,488	GAL	\$0.01233	\$0.01233	\$0.01126		8,229	GAL	\$0.01117	\$0.01117	\$0.01010
% Inc/Dec(-) to Prior Periods				0.00%	9.50%					0.00%	10.52%
Cost/CCF - Sewer	6	CCF	\$12.35500	\$12.35500	\$11.81500		11	CCF	\$9.53000	\$9.53000	\$8.99000
Cost/GALLON - Sewer	4,488	GAL	\$0.01652	\$0.01652	\$0.01580		8,229	GAL	\$0.01274	\$0.01274	\$0.01202
% Inc/Dec(-) to Prior Periods				0.00%	4.57%					0.00%	6.01%
(Listed Accounts Assume SAME USAGE for kWh and Water (CCF) for All Billing Periods)											
(One "1" Unit CCF of Water = "Hundred Cubic Foot" = 748.05 Gallons)											

# **RATE REVIEW COMPARISONS - Current to Prior Month and Prior Year**

## **2019 NOVEMBER BILLING - E**

### **Rate Comparisons to Prior Month a**

			<i>Current</i>	<i>Prior Month</i>	<i>Prior Year</i>				<i>Current</i>	<i>Prior Month</i>	<i>Prior Year</i>
	<i>Service</i>	<i>Service</i>	<i>November</i>	<i>October</i>	<i>November</i>		<i>Service</i>	<i>Service</i>	<i>November</i>	<i>October</i>	<i>November</i>
<i>Customer Type</i>	<i>Usage</i>	<i>Units</i>	<i>2019 Rate</i>	<i>2019 Rate</i>	<i>2018 Rate</i>		<i>Usage</i>	<i>Units</i>	<i>2019 Rate</i>	<i>2019 Rate</i>	<i>2018 Rate</i>
<i>Customer Type -&gt;</i>	<b>COMMERCIAL USER - (3 Phase w/Demand)</b>						<b>INDUSTRIAL USER - (3 Phase w/Demand)</b>				
Customer Charge			\$18.00	\$18.00	\$18.00				\$100.00	\$100.00	\$100.00
Distribution Energy Charge	7,040	kWh	\$38.02	\$38.02	\$38.02	98,748	Reactive		\$2,303.85	\$2,303.85	\$2,303.85
Distribution Demand Charge	20.32	kW/Dmd	\$92.86	\$92.86	\$92.86	1510.1	kW/Dmd		\$8,215.30	\$8,215.30	\$8,215.30
Power Supply Energy Charge	7,040	kWh	\$623.04	\$623.04	\$623.04	866,108	kWh		\$39,165.42	\$39,165.42	\$39,165.42
Power Supply Demand Charge									\$15,296.55	\$15,296.55	\$15,296.55
PSCAF - Monthly Factor	7,040	kWh	\$58.50	\$55.90	\$105.60				\$6,837.49	\$6,533.06	\$12,342.05
kWh Tax- Level 1			\$9.66	\$9.66	\$9.66				\$9.66	\$9.66	\$9.66
kWh Tax- Level 2			\$20.80	\$20.80	\$20.80				\$56.24	\$56.24	\$56.24
kWh Tax- Level 3									\$3,087.71	\$3,087.71	\$3,087.71
<b>Total Electric</b>			<b>\$860.88</b>	<b>\$858.28</b>	<b>\$907.98</b>				<b>\$75,072.22</b>	<b>\$74,767.79</b>	<b>\$80,576.78</b>
Water	25	CCF	\$190.17	\$190.17	\$170.92	300	CCF		\$2,152.61	\$2,152.61	\$1,936.11
Sewer (w/Stm.Sew. & Lat.)	25	CCF	\$192.19	\$192.19	\$177.29	300	CCF		\$1,880.69	\$1,880.69	\$1,717.29
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50				\$330.00	\$330.00	\$330.00
Refuse (Rate/Service)			\$5.00	\$5.00	\$5.00				\$5.00	\$5.00	\$5.00
<b>Sub-Other Services</b>			<b>\$396.86</b>	<b>\$396.86</b>	<b>\$362.71</b>				<b>\$4,368.30</b>	<b>\$4,368.30</b>	<b>\$3,988.40</b>
<b>Total Billing - All Services</b>			<b>\$1,257.74</b>	<b>\$1,255.14</b>	<b>\$1,270.69</b>				<b>\$79,440.52</b>	<b>\$79,136.09</b>	<b>\$84,565.18</b>
<i>Verification Totals-&gt;</i>			<i>\$1,257.74</i>	<i>\$1,255.14</i>	<i>\$1,270.69</i>				<i>\$79,440.52</i>	<i>\$79,136.09</i>	<i>\$84,565.18</i>
				<i>Cr.Mo to Pr.Mo</i>	<i>Cr.Yr to Pr.Yr</i>					<i>Cr.Mo to Pr.Mo</i>	<i>Cr.Yr to Pr.Yr</i>
Dollar Chg.to Prior Periods				\$2.60	-\$12.95					\$304.43	-\$5,124.66
% Inc/Dec(-) to Prior Periods				0.21%	-1.02%					0.38%	-6.06%
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Cost/kWh - Electric	7,040	kWh	\$0.12228	\$0.12191	\$0.12897	866,108	kWh		\$0.08668	\$0.08633	\$0.09303
% Inc/Dec(-) to Prior Periods				0.30%	-5.19%					0.41%	-6.83%
Cost/CCF - Water	25	CCF	\$7.60680	\$7.60680	\$6.83680	300	CCF		\$7.17537	\$7.17537	\$6.45370
Cost/GALLONS - Water	18,701	GAL	\$0.01017	\$0.01017	\$0.00914	224,415	GAL		\$0.00959	\$0.00959	\$0.00863
% Inc/Dec(-) to Prior Periods				0.00%	11.26%					0.00%	11.18%
Cost/CCF - Sewer	25	CCF	\$7.68760	\$7.68760	\$7.09160	300	CCF		\$6.26897	\$6.26897	\$5.72430
Cost/GALLON - Sewer	18,701	GAL	\$0.01028	\$0.01028	\$0.00948	224,415	GAL		\$0.00838	\$0.00838	\$0.00765
% Inc/Dec(-) to Prior Periods				0.00%	8.40%					0.00%	9.52%
(Listed Accounts Assume SAME USA)											
(One "1" Unit CCF of Water = "Hundre											



<b>BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - NOVEMBER, 2019</b>																
<b>SEPTEMBER, 2019</b>																
<b>2019 - NOVEMBER BILLING WITH SEPTEMBER 2019 AMP BILLING PERIOD AND OCTOBER 2019 CITY CONSUMPTION AND BILLING DATA</b>																
Class and/or Schedule	Rate Code	Oct-19 # of Bills	Oct-19 (kWh Usage)	Oct-19 Billed	Billed kVa of Demand	Cost / kWh For Month	Cost / kWh Prior 12 Mo Average	Nov-18 # of Bills	Nov-18 (kWh Usage)	Nov-18 Billed	Cost / kWh For Month	Dec-18 # of Bills	Dec-18 (kWh Usage)	Dec-18 Billed	Cost / kWh For Month	Dec-18 Cost / kWh
Residential (Dom-In)	E1	3,342	2,627,375	\$300,713.94	0	\$0.1145	\$0.1252	3,334	2,028,219	\$251,008.17	\$0.1238	3,338	1,889,216	\$239,798.19	\$0.1269	
Residential (Dom-In) w/Ecosmart	E1E	6	4,129	\$476.93	0	\$0.1155	\$0.1282	8	4,070	\$511.40	\$0.1257	8	3,498	\$454.89	\$0.1300	
Residential (Dom-In - All Electric)	E2	626	418,793	\$48,478.09	0	\$0.1158	\$0.1240	608	341,256	\$42,496.39	\$0.1245	607	462,715	\$57,459.73	\$0.1242	
Res. (Dom-In - All Elec.) w/Ecosmart	E2E	1	659	\$76.37	0	\$0.1159	\$0.1265	1	655	\$80.58	\$0.1230	1	488	\$62.77	\$0.1286	
<b>Total Residential (Domestic)</b>		<b>3,975</b>	<b>3,050,956</b>	<b>\$349,745.33</b>	<b>0</b>	<b>\$0.1146</b>	<b>\$0.1250</b>	<b>3,951</b>	<b>2,374,200</b>	<b>\$294,096.54</b>	<b>\$0.1239</b>	<b>3,954</b>	<b>2,355,917</b>	<b>\$297,775.58</b>	<b>\$0.1264</b>	
Residential (Rural-Out)	ER1	787	780,581	\$94,896.91	0	\$0.1216	\$0.1313	783	647,138	\$84,620.90	\$0.1308	777	708,091	\$93,471.61	\$0.1320	
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,819	\$354.28	0	\$0.1257	\$0.1344	4	2,519	\$338.64	\$0.1344	4	2,889	\$389.65	\$0.1349	
Residential (Rural-Out - All Electric)	ER2	367	388,564	\$46,991.85	0	\$0.1209	\$0.1299	373	341,672	\$44,238.91	\$0.1295	372	423,283	\$54,944.35	\$0.1298	
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	1,794	\$220.01	0	\$0.1226	\$0.1307	2	1,457	\$192.74	\$0.1323	2	2,084	\$272.23	\$0.1306	
Residential (Rural-Out w/Dmd)	ER3	15	12,756	\$1,571.27	92	\$0.1232	\$0.1263	16	19,264	\$2,441.54	\$0.1267	16	74,328	\$9,129.46	\$0.1228	
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	8,911	\$1,083.02	52	\$0.1215	\$0.1292	9	7,575	\$987.87	\$0.1304	9	26,753	\$3,321.60	\$0.1242	
<b>Total Residential (Rural)</b>		<b>1,184</b>	<b>1,195,425</b>	<b>\$145,117.34</b>	<b>144</b>	<b>\$0.1214</b>	<b>\$0.1306</b>	<b>1,187</b>	<b>1,019,625</b>	<b>\$132,820.60</b>	<b>\$0.1303</b>	<b>1,180</b>	<b>1,237,428</b>	<b>\$161,528.90</b>	<b>\$0.1305</b>	
Commercial (1 Ph-In - No Dmd)	EC2	74	28,344	\$4,423.71	0	\$0.1561	\$0.1616	73	31,927	\$5,082.08	\$0.1592	72	31,350	\$5,072.66	\$0.1618	
Commercial (1 Ph-Out - No Dmd)	EC2O	50	10,059	\$1,854.12	0	\$0.1843	\$0.1894	48	7,158	\$1,519.28	\$0.2122	48	11,512	\$2,120.54	\$0.1842	
<b>Total Commercial (1 Ph) No Dmd</b>		<b>124</b>	<b>38,403</b>	<b>\$6,277.83</b>	<b>0</b>	<b>\$0.1635</b>	<b>\$0.1686</b>	<b>121</b>	<b>39,085</b>	<b>\$6,601.36</b>	<b>\$0.1689</b>	<b>120</b>	<b>42,862</b>	<b>\$7,193.20</b>	<b>\$0.1678</b>	
Commercial (1 Ph-In - w/Demand)	EC1	258	377,106	\$52,169.22	1957	\$0.1383	\$0.1521	260	333,955	\$50,414.30	\$0.1510	261	301,216	\$47,256.04	\$0.1569	
Commercial (1 Ph-Out - w/Demand)	EC1O	24	46,145	\$6,129.64	205	\$0.1328	\$0.1413	25	43,706	\$5,912.53	\$0.1353	26	42,048	\$5,891.05	\$0.1401	
<b>Total Commercial (1 Ph) w/Demand</b>		<b>282</b>	<b>423,251</b>	<b>\$58,298.86</b>	<b>2,162</b>	<b>\$0.1377</b>	<b>\$0.1508</b>	<b>285</b>	<b>377,661</b>	<b>\$56,326.83</b>	<b>\$0.1491</b>	<b>287</b>	<b>343,264</b>	<b>\$53,147.09</b>	<b>\$0.1548</b>	
Commercial (3 Ph-Out - No Dmd)	EC4O	2	240	\$65.91	13	\$0.2746	\$0.1488	2	80	\$46.53	\$0.5816	2	3,360	\$486.07	\$0.1447	
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>240</b>	<b>\$65.91</b>	<b>13</b>	<b>\$0.2746</b>	<b>\$0.1488</b>	<b>2</b>	<b>80</b>	<b>\$46.53</b>	<b>\$0.5816</b>	<b>2</b>	<b>3,360</b>	<b>\$486.07</b>	<b>\$0.1447</b>	
Commercial (3 Ph-In - w/Demand)	EC3	214	2,333,225	\$284,939.75	7948	\$0.1221	\$0.1342	209	1,702,362	\$223,994.72	\$0.1316	207	1,489,381	\$201,812.93	\$0.1355	
Commercial (3 Ph-Out - w/Demand)	EC3O	37	298,438	\$37,614.65	1271	\$0.1260	\$0.1354	37	298,204	\$41,023.08	\$0.1376	37	478,436	\$61,911.19	\$0.1294	
Commercial (3 Ph-Out - w/Dmd.&Sub-St.)	E3SO	3	115,840	\$13,235.25	390	\$0.1143	\$0.1253	3	105,920	\$13,083.62	\$0.1235	3	93,080	\$11,597.88	\$0.1246	
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	8,160	\$955.95	23	\$0.1172	\$0.1308	1	7,320	\$925.93	\$0.1265	1	4,040	\$577.48	\$0.1429	
<b>Total Commercial (3 Ph) w/Demand</b>		<b>255</b>	<b>2,755,663</b>	<b>\$336,745.60</b>	<b>9,632</b>	<b>\$0.1222</b>	<b>\$0.1339</b>	<b>250</b>	<b>2,113,806</b>	<b>\$279,027.35</b>	<b>\$0.1320</b>	<b>248</b>	<b>2,064,937</b>	<b>\$275,899.48</b>	<b>\$0.1336</b>	
Large Power (In - w/Dmd & Rct)	EL1	15	2,215,279	\$211,874.83	4499	\$0.0956	\$0.1073	20	2,330,080	\$248,092.31	\$0.1065	20	2,018,869	\$221,370.58	\$0.1097	
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	1,062,552	\$99,051.98	2173	\$0.0932	\$0.1029	3	1,093,394	\$107,573.02	\$0.0984	3	1,116,708	\$108,755.82	\$0.0974	
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	382,800	\$38,486.91	874	\$0.1005	\$0.1113	1	471,600	\$51,894.73	\$0.1100	1	514,800	\$54,289.13	\$0.1055	
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	82,589	\$13,470.01	487	\$0.1631	\$0.1629	2	82,736	\$14,921.36	\$0.1803	2	67,570	\$9,376.88	\$0.1388	
<b>Total Large Power</b>		<b>21</b>	<b>3,743,220</b>	<b>\$362,883.73</b>	<b>8,033</b>	<b>\$0.0969</b>	<b>\$0.1077</b>	<b>26</b>	<b>3,977,810</b>	<b>\$422,481.42</b>	<b>\$0.1062</b>	<b>26</b>	<b>3,717,947</b>	<b>\$393,792.41</b>	<b>\$0.1059</b>	
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	934,470	\$80,449.52	1673	\$0.0861	\$0.0976	1	1,024,215	\$94,884.34	\$0.0926	1	1,028,639	\$99,197.67	\$0.0964	
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	892,849	\$79,725.62	1696	\$0.0893	\$0.1013	1	850,818	\$80,494.14	\$0.0946	1	860,021	\$83,657.45	\$0.0973	
<b>Total Industrial</b>		<b>2</b>	<b>1,827,319</b>	<b>\$160,175.14</b>	<b>3,369</b>	<b>\$0.0877</b>	<b>\$0.0993</b>	<b>2</b>	<b>1,875,033</b>	<b>\$175,378.48</b>	<b>\$0.0935</b>	<b>2</b>	<b>1,888,660</b>	<b>\$182,855.12</b>	<b>\$0.0968</b>	
Interdepartmental (In - No Dmd)	ED1	10	23,257	\$3,136.55	129	\$0.1349	\$0.1326	10	24,460	\$3,439.21	\$0.1406	9	30,855	\$4,238.59	\$0.1374	
Interdepartmental (Out - w/Dmd)	ED2O	2	574	\$95.67	0	\$0.1667	\$0.1957	2	332	\$67.85	\$0.2044	2	263	\$59.43	\$0.2260	
Interdepartmental (In - w/Dmd)	ED2	27	20,200	\$2,844.59	0	\$0.1408	\$0.1428	28	24,160	\$3,519.12	\$0.1457	27	50,475	\$7,088.03	\$0.1404	
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	137,778	\$16,928.90	548	\$0.1229	\$0.1296	10	140,597	\$17,423.92	\$0.1239	10	144,770	\$18,717.77	\$0.1293	
Interdepartmental (Street Lights)	EDSL	6	21,490	\$2,075.89	0	\$0.0966	\$0.0956	7	63,071	\$5,867.80	\$0.0930	5	14,659	\$1,417.65	\$0.0967	
Interdepartmental (Traffic Signals)	EDTS	8	1,378	\$127.40	0	\$0.0925	\$0.0925	8	1,563	\$144.53	\$0.0925	8	1,746	\$161.41	\$0.0924	
Generators (JV2 Power Cost Only)	GJV2	1	16,161	\$354.73	29	\$0.0219	\$0.0000	1	15,181	\$404.57	\$0.0266	1	18,406	\$642.92	\$0.0349	
Generators (JV5 Power Cost Only)	GJV5	0	0	\$0.00	0	\$0.0000	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	
<b>Total Interdepartmental</b>		<b>64</b>	<b>220,838</b>	<b>\$25,563.73</b>	<b>706</b>	<b>\$0.1158</b>	<b>\$0.1226</b>	<b>66</b>	<b>269,364</b>	<b>\$30,867.00</b>	<b>\$0.1146</b>	<b>62</b>	<b>261,174</b>	<b>\$32,325.80</b>	<b>\$0.1238</b>	
<b>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,909</b>	<b>13,255,315</b>	<b>\$1,444,873.47</b>	<b>24,059</b>	<b>\$0.1090</b>	<b>\$0.1197</b>	<b>5,890</b>	<b>12,046,664</b>	<b>\$1,397,646.11</b>	<b>\$0.1160</b>	<b>5,881</b>	<b>11,915,549</b>	<b>\$1,405,003.65</b>	<b>\$0.1179</b>	
Street Lights (In)	SLO	14	0	\$13.44	0	\$0.0000	\$0.0000	14	0	\$13.43	\$0.0000	14	0	\$13.44	\$0.0000	
Street Lights (Out)	SLOO	2	0	\$1.92	0	\$0.0000	\$0.0000	2	0	\$1.91	\$0.0000	2	0	\$1.91	\$0.0000	
<b>Total Street Light Only</b>		<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>0</b>	<b>\$0.0000</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.34</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.35</b>	<b>\$0.0000</b>	
<b>TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,925</b>	<b>13,255,315</b>	<b>\$1,444,888.83</b>	<b>24,059</b>	<b>\$0.1090</b>	<b>\$0.1197</b>	<b>5,906</b>	<b>12,046,664</b>	<b>\$1,397,661.45</b>	<b>\$0.1160</b>	<b>5,897</b>	<b>11,915,549</b>	<b>\$1,405,019.00</b>	<b>\$0.1179</b>	

<b>BILLING SUMMARY AND COMPARISON</b>																	
<b>SEPTEMBER, 2019</b>																	
<b>2019 - NOVEMBER BILLING WITH SEPTEMBER 2019</b>																	
Class and/or Schedule	Rate Code	Jan-19 # of Bills	Jan-19 (kWh Usage)	Jan-19 Billed	Cost / kWh For Month	Feb-19 # of Bills	Feb-19 (kWh Usage)	Feb-19 Billed	Cost / kWh For Month	Mar-19 # of Bills	Mar-19 (kWh Usage)	Mar-19 Billed	Cost / kWh For Month	Apr-19 # of Bills	Apr-19 (kWh Usage)	Apr-19 Billed	Cost / kWh For Month
Residential (Dom-In)	E1	3,329	2,091,530	\$272,665.07	\$0.1304	3,340	2,274,677	\$294,991.21	\$0.1297	3,333	2,465,436	\$310,648.89	\$0.1260	3,342	2,035,692	\$257,277.91	\$0.1264
Residential (Dom-In) w/Ecosmart	E1E	8	3,404	\$459.27	\$0.1349	8	3,681	\$492.96	\$0.1339	8	3,762	\$491.53	\$0.1307	8	3,079	\$406.83	\$0.1321
Residential (Dom-In - All Electric)	E2	608	614,990	\$77,936.27	\$0.1267	610	676,299	\$85,395.38	\$0.1263	610	833,025	\$101,831.08	\$0.1222	620	672,647	\$82,084.80	\$0.1220
Res. (Dom-In - All Elec.) w/Ecosmart	E2E	1	585	\$76.68	\$0.1311	1	480	\$64.01	\$0.1334	1	526	\$68.02	\$0.1293	1	508	\$65.20	\$0.1283
<b>Total Residential (Domestic)</b>		<b>3,946</b>	<b>2,710,509</b>	<b>\$351,137.29</b>	<b>\$0.1295</b>	<b>3,959</b>	<b>2,955,137</b>	<b>\$380,943.56</b>	<b>\$0.1289</b>	<b>3,952</b>	<b>3,302,749</b>	<b>\$413,039.52</b>	<b>\$0.1251</b>	<b>3,971</b>	<b>2,711,926</b>	<b>\$339,834.74</b>	<b>\$0.1253</b>
Residential (Rural-Out)	ER1	774	786,974	\$106,504.33	\$0.1353	777	887,650	\$119,215.41	\$0.1343	777	961,894	\$125,641.90	\$0.1306	776	794,190	\$104,015.97	\$0.1310
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,143	\$434.51	\$0.1382	4	3,880	\$527.26	\$0.1359	4	3,702	\$493.87	\$0.1334	4	3,058	\$410.74	\$0.1343
Residential (Rural-Out - All Electric)	ER2	371	481,455	\$64,120.63	\$0.1332	371	534,467	\$70,803.11	\$0.1325	371	609,784	\$78,413.48	\$0.1286	370	498,088	\$64,053.38	\$0.1286
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,654	\$353.13	\$0.1331	2	2,987	\$395.11	\$0.1323	2	3,344	\$429.97	\$0.1286	2	2,955	\$378.26	\$0.1280
Residential (Rural-Out w/Dmd)	ER3	16	157,138	\$19,780.75	\$0.1259	15	81,165	\$10,304.66	\$0.1270	15	48,348	\$6,061.31	\$0.1254	15	25,173	\$3,197.46	\$0.1270
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	21,723	\$2,811.78	\$0.1294	9	12,300	\$1,634.32	\$0.1329	9	11,570	\$1,508.08	\$0.1303	9	10,622	\$1,377.53	\$0.1297
<b>Total Residential (Rural)</b>		<b>1,176</b>	<b>1,453,087</b>	<b>\$194,005.13</b>	<b>\$0.1335</b>	<b>1,178</b>	<b>1,522,449</b>	<b>\$202,879.87</b>	<b>\$0.1333</b>	<b>1,178</b>	<b>1,638,642</b>	<b>\$212,548.61</b>	<b>\$0.1297</b>	<b>1,176</b>	<b>1,334,086</b>	<b>\$173,433.34</b>	<b>\$0.1300</b>
Commercial (1 Ph-In - No Dmd)	EC2	72	33,835	\$5,516.43	\$0.1630	72	34,992	\$5,719.92	\$0.1635	72	38,814	\$6,133.79	\$0.1580	72	31,999	\$5,166.30	\$0.1615
Commercial (1 Ph-Out - No Dmd)	EC2O	50	14,955	\$2,644.10	\$0.1768	50	11,714	\$2,225.35	\$0.1900	50	14,161	\$2,522.55	\$0.1781	50	11,118	\$2,094.53	\$0.1884
<b>Total Commercial (1 Ph) No Dmd</b>		<b>122</b>	<b>48,790</b>	<b>\$8,160.53</b>	<b>\$0.1673</b>	<b>122</b>	<b>46,706</b>	<b>\$7,945.27</b>	<b>\$0.1701</b>	<b>122</b>	<b>52,975</b>	<b>\$8,656.34</b>	<b>\$0.1634</b>	<b>122</b>	<b>43,117</b>	<b>\$7,260.83</b>	<b>\$0.1684</b>
Commercial (1 Ph-In - w/Demand)	EC1	258	287,417	\$45,278.62	\$0.1575	258	307,384	\$48,124.40	\$0.1566	258	330,566	\$49,985.17	\$0.1512	259	299,031	\$45,856.29	\$0.1533
Commercial (1 Ph-Out - w/Demand)	EC1O	24	43,614	\$6,291.91	\$0.1443	24	49,827	\$7,283.21	\$0.1462	24	46,986	\$6,633.96	\$0.1412	24	41,830	\$5,894.91	\$0.1409
<b>Total Commercial (1 Ph) w/Demand</b>		<b>282</b>	<b>331,031</b>	<b>\$51,570.53</b>	<b>\$0.1558</b>	<b>282</b>	<b>357,211</b>	<b>\$55,407.61</b>	<b>\$0.1551</b>	<b>282</b>	<b>377,552</b>	<b>\$56,619.13</b>	<b>\$0.1500</b>	<b>283</b>	<b>340,861</b>	<b>\$51,751.20</b>	<b>\$0.1518</b>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	18,800	\$2,635.31	\$0.1402	2	15,080	\$2,121.23	\$0.1407	2	160	\$57.71	\$0.3607	2	600	\$116.60	\$0.1943
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>18,800</b>	<b>\$2,635.31</b>	<b>\$0.1402</b>	<b>2</b>	<b>15,080</b>	<b>\$2,121.23</b>	<b>\$0.1407</b>	<b>2</b>	<b>160</b>	<b>\$57.71</b>	<b>\$0.3607</b>	<b>2</b>	<b>600</b>	<b>\$116.60</b>	<b>\$0.1943</b>
Commercial (3 Ph-In - w/Demand)	EC3	214	1,695,547	\$262,209.45	\$0.1546	214	1,695,558	\$232,874.42	\$0.1373	215	1,843,999	\$246,143.40	\$0.1335	214	1,840,308	\$243,290.37	\$0.1322
Commercial (3 Ph-Out - w/Demand)	EC3O	37	419,781	\$56,966.14	\$0.1357	37	346,175	\$47,574.03	\$0.1374	38	303,214	\$40,961.20	\$0.1351	37	288,847	\$38,828.23	\$0.1344
Commercial (3 Ph-Out - w/Dmd & Sub-St.)	E3SO	3	95,160	\$12,496.97	\$0.1313	3	97,600	\$12,627.24	\$0.1294	3	114,920	\$14,544.21	\$0.1266	3	104,160	\$13,110.89	\$0.1259
Commercial (3 Ph-In - w/Demand, No Ta)	EC3T	1	1,680	\$235.69	\$0.1403	1	1,960	\$267.70	\$0.1366	1	1,880	\$253.74	\$0.1360	1	1,880	\$250.82	\$0.1334
<b>Total Commercial (3 Ph) w/Demand</b>		<b>255</b>	<b>2,212,168</b>	<b>\$331,908.25</b>	<b>\$0.1500</b>	<b>255</b>	<b>2,141,293</b>	<b>\$293,343.39</b>	<b>\$0.1370</b>	<b>257</b>	<b>2,264,013</b>	<b>\$301,902.55</b>	<b>\$0.1333</b>	<b>255</b>	<b>2,235,195</b>	<b>\$295,480.31</b>	<b>\$0.1322</b>
Large Power (In - w/Dmd & Rct)	EL1	15	1,597,489	\$180,631.84	\$0.1131	15	1,478,807	\$170,170.64	\$0.1151	15	1,629,248	\$176,214.53	\$0.1082	15	1,519,156	\$166,527.05	\$0.1096
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	1,025,490	\$110,924.41	\$0.1082	3	963,774	\$103,700.34	\$0.1076	3	922,545	\$96,209.85	\$0.1043	3	890,900	\$92,963.95	\$0.1043
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	469,200	\$52,762.88	\$0.1125	1	382,800	\$46,480.47	\$0.1214	1	488,400	\$52,538.17	\$0.1076	1	444,000	\$49,582.76	\$0.1117
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	58,800	\$6,223.37	\$0.1058	2	61,200	\$6,516.36	\$0.1065	2	67,200	\$6,824.48	\$0.1016	2	61,200	\$6,282.65	\$0.1027
<b>Total Large Power</b>		<b>21</b>	<b>3,150,979</b>	<b>\$350,542.50</b>	<b>\$0.1112</b>	<b>21</b>	<b>2,886,581</b>	<b>\$326,867.81</b>	<b>\$0.1132</b>	<b>21</b>	<b>3,107,393</b>	<b>\$331,787.03</b>	<b>\$0.1068</b>	<b>21</b>	<b>2,915,256</b>	<b>\$315,356.41</b>	<b>\$0.1082</b>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	979,077	\$99,325.81	\$0.1014	1	756,625	\$80,906.51	\$0.1069	1	953,746	\$93,976.56	\$0.0985	1	793,516	\$80,520.83	\$0.1015
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	759,385	\$79,525.88	\$0.1047	1	709,545	\$75,871.03	\$0.1069	1	679,242	\$70,650.12	\$0.1040	1	592,800	\$64,867.63	\$0.1094
<b>Total Industrial</b>		<b>2</b>	<b>1,738,462</b>	<b>\$178,851.69</b>	<b>\$0.1029</b>	<b>2</b>	<b>1,466,170</b>	<b>\$156,777.54</b>	<b>\$0.1069</b>	<b>2</b>	<b>1,632,988</b>	<b>\$164,626.68</b>	<b>\$0.1008</b>	<b>2</b>	<b>1,386,316</b>	<b>\$145,388.46</b>	<b>\$0.1049</b>
Interdepartmental (In - No Dmd)	ED1	9	30,783	\$4,036.98	\$0.1311	10	36,732	\$4,838.55	\$0.1317	9	41,855	\$5,271.19	\$0.1259	9	33,828	\$4,311.86	\$0.1275
Interdepartmental (Out - w/Dmd)	ED2O	2	251	\$58.94	\$0.2348	2	289	\$64.23	\$0.2222	2	246	\$57.53	\$0.2339	2	234	\$55.59	\$0.2376
Interdepartmental (In - w/Dmd)	ED2	29	66,602	\$9,567.47	\$0.1437	29	75,208	\$10,762.28	\$0.1431	27	82,014	\$11,431.90	\$0.1394	27	65,129	\$9,060.76	\$0.1391
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	147,035	\$19,433.31	\$0.1322	10	152,446	\$20,037.67	\$0.1314	10	205,686	\$26,332.92	\$0.1280	10	188,404	\$23,936.79	\$0.1271
Interdepartmental (Street Lights)	EDSL	5	14,608	\$1,408.20	\$0.0964	5	18,020	\$1,729.62	\$0.0960	5	14,608	\$1,416.67	\$0.0970	5	14,608	\$1,413.75	\$0.0968
Interdepartmental (Traffic Signals)	EDTS	8	1,606	\$148.50	\$0.0925	8	1,749	\$161.72	\$0.0925	8	1,474	\$136.29	\$0.0925	8	1,267	\$117.15	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	19,321	\$700.19	\$0.0362	1	19,808	\$584.93	\$0.0295	1	21,704	\$603.15	\$0.0278	1	18,459	\$450.95	\$0.0244
Generators (JV5 Power Cost Only)	GJV5	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000
<b>Total Interdepartmental</b>		<b>64</b>	<b>280,206</b>	<b>\$35,353.59</b>	<b>\$0.1262</b>	<b>65</b>	<b>304,252</b>	<b>\$38,179.00</b>	<b>\$0.1255</b>	<b>62</b>	<b>367,587</b>	<b>\$45,249.65</b>	<b>\$0.1231</b>	<b>62</b>	<b>321,929</b>	<b>\$39,346.85</b>	<b>\$0.1222</b>
<b>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,870</b>	<b>11,944,032</b>	<b>\$1,504,164.82</b>	<b>\$0.1259</b>	<b>5,886</b>	<b>11,694,879</b>	<b>\$1,464,465.28</b>	<b>\$0.1252</b>	<b>5,878</b>	<b>12,744,059</b>	<b>\$1,534,487.22</b>	<b>\$0.1204</b>	<b>5,894</b>	<b>11,289,286</b>	<b>\$1,367,968.74</b>	<b>\$0.1212</b>
Street Lights (In)	SLO	14	0	\$13.43	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.43	\$0.0000	14	0	\$13.44	\$0.0000
Street Lights (Out)	SLOO	2	0	\$1.91	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000
<b>Total Street Light Only</b>		<b>16</b>	<b>0</b>	<b>\$15.34</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.35</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>
<b>TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,886</b>	<b>11,944,032</b>	<b>\$1,504,180.16</b>	<b>\$0.1259</b>	<b>5,902</b>	<b>11,694,879</b>	<b>\$1,464,480.64</b>	<b>\$0.1252</b>	<b>5,894</b>	<b>12,744,059</b>	<b>\$1,534,502.57</b>	<b>\$0.1204</b>	<b>5,910</b>	<b>11,289,286</b>	<b>\$1,367,984.10</b>	<b>\$0.1212</b>



<b>BILLING SUMMARY AND COMPARISON</b>																	
<b>SEPTEMBER, 2019</b>																	
<b>2019 - NOVEMBER BILLING WITH SEPTEMBER 2019</b>																	
Class and/or Schedule	Rate Code	May-19 # of Bills	May-19 (kWh Usage)	May-19 Billed	Cost / kWh For Month	Jun-19 # of Bills	Jun-19 (kWh Usage)	Jun-19 Billed	Cost / kWh For Month	Jul-19 # of Bills	Jul-19 (kWh Usage)	Jul-19 Billed	Cost / kWh For Month	Aug-19 # of Bills	Aug-19 (kWh Usage)	Aug-19 Billed	Cost / kWh For Month
Residential (Dom-In)	E1	3,344	1,923,171	\$242,954.41	\$0.1263	3,339	1,637,164	\$215,454.91	\$0.1316	3,344	1,867,903	\$245,867.24	\$0.1316	3,346	2,732,680	\$346,222.17	\$0.1267
Residential (Dom-In) w/Ecosmart	E1E	8	3,052	\$401.71	\$0.1316	8	2,976	\$403.19	\$0.1355	7	3,714	\$490.94	\$0.1322	7	5,114	\$652.39	\$0.1276
Residential (Dom-In - All Electric)	E2	621	557,529	\$68,338.87	\$0.1226	629	394,726	\$50,889.72	\$0.1289	628	344,748	\$45,441.85	\$0.1318	632	440,183	\$56,326.12	\$0.1280
Res. (Dom-In - All Elec.) w/Ecosmart	E2E	1	457	\$58.97	\$0.1290	1	458	\$60.66	\$0.1324	1	558	\$73.44	\$0.1316	1	834	\$105.55	\$0.1266
<b>Total Residential (Domestic)</b>		<b>3,974</b>	<b>2,484,209</b>	<b>\$311,753.96</b>	<b>\$0.1255</b>	<b>3,977</b>	<b>2,035,324</b>	<b>\$266,808.48</b>	<b>\$0.1311</b>	<b>3,980</b>	<b>2,216,923</b>	<b>\$291,873.47</b>	<b>\$0.1317</b>	<b>3,986</b>	<b>3,178,811</b>	<b>\$403,306.23</b>	<b>\$0.1269</b>
Residential (Rural-Out)	ER1	776	699,983	\$92,162.85	\$0.1317	778	617,058	\$84,339.73	\$0.1367	786	641,759	\$88,459.44	\$0.1378	786	867,108	\$115,416.57	\$0.1331
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,544	\$346.81	\$0.1363	4	2,319	\$327.68	\$0.1413	4	2,594	\$365.77	\$0.1410	4	3,894	\$523.03	\$0.1343
Residential (Rural-Out - All Electric)	ER2	370	416,573	\$53,930.58	\$0.1295	370	347,201	\$46,775.22	\$0.1347	367	325,561	\$44,556.81	\$0.1369	367	424,736	\$56,355.32	\$0.1327
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,425	\$312.46	\$0.1288	2	1,967	\$264.01	\$0.1342	2	1,372	\$192.30	\$0.1402	2	1,219	\$171.23	\$0.1405
Residential (Rural-Out w/Dmd)	ER3	15	26,458	\$3,336.23	\$0.1261	15	23,350	\$3,042.66	\$0.1303	15	15,858	\$2,139.28	\$0.1349	15	19,604	\$2,578.69	\$0.1315
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	9,409	\$1,224.75	\$0.1302	9	7,985	\$1,080.63	\$0.1353	9	7,763	\$1,064.90	\$0.1372	9	8,355	\$1,126.27	\$0.1348
<b>Total Residential (Rural)</b>		<b>1,176</b>	<b>1,157,392</b>	<b>\$151,313.68</b>	<b>\$0.1307</b>	<b>1,178</b>	<b>999,880</b>	<b>\$135,829.93</b>	<b>\$0.1358</b>	<b>1,183</b>	<b>994,907</b>	<b>\$136,778.50</b>	<b>\$0.1375</b>	<b>1,183</b>	<b>1,324,916</b>	<b>\$176,171.11</b>	<b>\$0.1330</b>
Commercial (1 Ph-In - No Dmd)	EC2	72	31,882	\$5,130.75	\$0.1609	72	31,708	\$5,216.75	\$0.1645	72	33,471	\$5,496.30	\$0.1642	73	28,115	\$4,736.29	\$0.1685
Commercial (1 Ph-Out - No Dmd)	EC2O	50	9,408	\$1,858.70	\$0.1976	50	8,791	\$1,806.71	\$0.2055	50	8,924	\$1,838.47	\$0.2060	50	8,740	\$1,799.65	\$0.2059
<b>Total Commercial (1 Ph) No Dmd</b>		<b>122</b>	<b>41,290</b>	<b>\$6,989.45</b>	<b>\$0.1693</b>	<b>122</b>	<b>40,499</b>	<b>\$7,023.46</b>	<b>\$0.1734</b>	<b>122</b>	<b>42,395</b>	<b>\$7,334.77</b>	<b>\$0.1730</b>	<b>123</b>	<b>36,855</b>	<b>\$6,535.94</b>	<b>\$0.1773</b>
Commercial (1 Ph-In - w/Demand)	EC1	260	309,521	\$46,731.05	\$0.1510	260	267,791	\$42,762.13	\$0.1597	259	279,300	\$44,966.50	\$0.1610	260	316,168	\$49,374.46	\$0.1562
Commercial (1 Ph-Out - w/Demand)	EC1O	24	43,432	\$6,099.39	\$0.1404	24	39,876	\$5,796.90	\$0.1454	24	38,602	\$5,730.99	\$0.1485	24	40,570	\$5,959.69	\$0.1469
<b>Total Commercial (1 Ph) w/Demand</b>		<b>284</b>	<b>352,953</b>	<b>\$52,830.44</b>	<b>\$0.1497</b>	<b>284</b>	<b>307,667</b>	<b>\$48,559.03</b>	<b>\$0.1578</b>	<b>283</b>	<b>317,902</b>	<b>\$50,697.49</b>	<b>\$0.1595</b>	<b>284</b>	<b>356,738</b>	<b>\$55,334.15</b>	<b>\$0.1551</b>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	360	\$84.14	\$0.2337	2	80	\$46.97	\$0.5871	2	40	\$41.55	\$1.0388	2	80	\$46.97	\$0.5871
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>360</b>	<b>\$84.14</b>	<b>\$0.2337</b>	<b>2</b>	<b>80</b>	<b>\$46.97</b>	<b>\$0.5871</b>	<b>2</b>	<b>40</b>	<b>\$41.55</b>	<b>\$1.0388</b>	<b>2</b>	<b>80</b>	<b>\$46.97</b>	<b>\$0.5871</b>
Commercial (3 Ph-In - w/Demand)	EC3	215	1,680,476	\$223,008.67	\$0.1327	214	1,672,860	\$228,330.04	\$0.1365	215	1,710,073	\$236,293.10	\$0.1382	216	1,921,250	\$260,730.87	\$0.1357
Commercial (3 Ph-Out - w/Demand)	EC3O	37	259,862	\$35,269.49	\$0.1357	37	235,437	\$33,446.06	\$0.1421	37	239,673	\$34,913.66	\$0.1457	37	274,728	\$38,593.50	\$0.1405
Commercial (3 Ph-Out - w/Dmd & Sub-St.)	E3SO	3	96,960	\$12,199.22	\$0.1258	3	91,160	\$11,798.87	\$0.1294	3	101,960	\$13,281.90	\$0.1303	3	113,080	\$14,331.86	\$0.1267
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	1,640	\$221.35	\$0.1350	1	1,720	\$235.63	\$0.1370	1	1,400	\$199.68	\$0.1426	1	2,800	\$439.96	\$0.1571
<b>Total Commercial (3 Ph) w/Demand</b>		<b>256</b>	<b>2,038,938</b>	<b>\$270,698.73</b>	<b>\$0.1328</b>	<b>255</b>	<b>2,001,177</b>	<b>\$273,810.60</b>	<b>\$0.1368</b>	<b>256</b>	<b>2,053,106</b>	<b>\$284,688.34</b>	<b>\$0.1387</b>	<b>257</b>	<b>2,311,858</b>	<b>\$314,096.19</b>	<b>\$0.1359</b>
Large Power (In - w/Dmd & Rct)	EL1	15	1,662,985	\$177,044.25	\$0.1065	15	1,621,674	\$178,664.86	\$0.1102	15	1,880,311	\$209,268.21	\$0.1113	15	2,010,579	\$221,306.70	\$0.1101
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	974,049	\$99,096.19	\$0.1017	3	1,002,197	\$104,581.35	\$0.1044	3	983,750	\$104,878.64	\$0.1066	3	1,027,578	\$108,238.53	\$0.1053
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	448,800	\$50,347.54	\$0.1122	1	452,400	\$52,253.99	\$0.1155	1	478,800	\$54,694.42	\$0.1142	1	427,200	\$50,434.47	\$0.1181
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	55,210	\$5,835.99	\$0.1057	2	60,593	\$21,241.23	\$0.3506	2	87,622	\$16,661.21	\$0.1901	2	79,464	\$15,662.73	\$0.1971
<b>Total Large Power</b>		<b>21</b>	<b>3,141,044</b>	<b>\$332,323.97</b>	<b>\$0.1058</b>	<b>21</b>	<b>3,136,864</b>	<b>\$356,741.43</b>	<b>\$0.1137</b>	<b>21</b>	<b>3,430,483</b>	<b>\$385,502.48</b>	<b>\$0.1124</b>	<b>21</b>	<b>3,544,821</b>	<b>\$395,642.43</b>	<b>\$0.1116</b>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	853,543	\$80,449.78	\$0.0943	1	772,121	\$80,559.60	\$0.1043	1	895,662	\$91,373.85	\$0.1020	1	853,053	\$85,795.44	\$0.1006
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	786,160	\$76,598.10	\$0.0974	1	706,069	\$73,992.70	\$0.1048	1	776,994	\$81,131.34	\$0.1044	1	694,184	\$79,070.77	\$0.1139
<b>Total Industrial</b>		<b>2</b>	<b>1,639,703</b>	<b>\$157,047.88</b>	<b>\$0.0958</b>	<b>2</b>	<b>1,478,190</b>	<b>\$154,552.30</b>	<b>\$0.1046</b>	<b>2</b>	<b>1,672,656</b>	<b>\$172,505.19</b>	<b>\$0.1031</b>	<b>2</b>	<b>1,547,237</b>	<b>\$164,866.21</b>	<b>\$0.1066</b>
Interdepartmental (In - No Dmd)	ED1	10	28,938	\$3,730.91	\$0.1289	10	23,142	\$3,163.33	\$0.1367	10	36,343	\$5,023.47	\$0.1382	10	46,865	\$6,385.89	\$0.1363
Interdepartmental (Out - w/Dmd)	ED2O	2	357	\$71.87	\$0.2013	2	446	\$85.32	\$0.1913	2	459	\$87.80	\$0.1913	2	605	\$107.12	\$0.1771
Interdepartmental (In - w/Dmd)	ED2	27	42,935	\$6,062.18	\$0.1412	27	31,110	\$4,592.92	\$0.1476	27	20,581	\$3,182.19	\$0.1546	29	23,478	\$3,570.98	\$0.1521
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	175,037	\$22,596.36	\$0.1291	10	158,726	\$21,126.86	\$0.1331	10	146,248	\$20,261.76	\$0.1385	10	149,378	\$19,861.26	\$0.1330
Interdepartmental (Street Lights)	EDSL	6	21,490	\$2,048.15	\$0.0953	6	21,490	\$2,074.95	\$0.0966	6	21,490	\$2,075.51	\$0.0966	6	21,490	\$2,073.47	\$0.0965
Interdepartmental (Traffic Signals)	EDTS	8	1,266	\$117.05	\$0.0925	8	1,386	\$128.17	\$0.0925	8	1,342	\$124.07	\$0.0925	8	1,281	\$118.45	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	18,241	\$514.58	\$0.0282	1	17,475	\$444.56	\$0.0254	1	18,630	\$448.80	\$0.0241	1	15,267	\$341.06	\$0.0223
Generators (JV5 Power Cost Only)	GJV5	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000
<b>Total Interdepartmental</b>		<b>64</b>	<b>288,264</b>	<b>\$35,141.10</b>	<b>\$0.1219</b>	<b>64</b>	<b>253,775</b>	<b>\$31,616.11</b>	<b>\$0.1246</b>	<b>64</b>	<b>245,093</b>	<b>\$31,203.60</b>	<b>\$0.1273</b>	<b>66</b>	<b>258,364</b>	<b>\$32,458.23</b>	<b>\$0.1256</b>
<b>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,901</b>	<b>11,144,153</b>	<b>\$1,318,183.35</b>	<b>\$0.1183</b>	<b>5,905</b>	<b>10,253,456</b>	<b>\$1,274,988.31</b>	<b>\$0.1243</b>	<b>5,913</b>	<b>10,973,505</b>	<b>\$1,360,625.39</b>	<b>\$0.1240</b>	<b>5,924</b>	<b>12,559,680</b>	<b>\$1,548,457.46</b>	<b>\$0.1233</b>
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.43	\$0.0000
Street Lights (Out)	SLOO	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000
<b>Total Street Light Only</b>		<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.35</b>	<b>\$0.0000</b>
<b>TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,917</b>	<b>11,144,153</b>	<b>\$1,318,198.71</b>	<b>\$0.1183</b>	<b>5,921</b>	<b>10,253,456</b>	<b>\$1,275,003.67</b>	<b>\$0.1243</b>	<b>5,929</b>	<b>10,973,505</b>	<b>\$1,360,640.75</b>	<b>\$0.1240</b>	<b>5,940</b>	<b>12,559,680</b>	<b>\$1,548,472.81</b>	<b>\$0.1233</b>



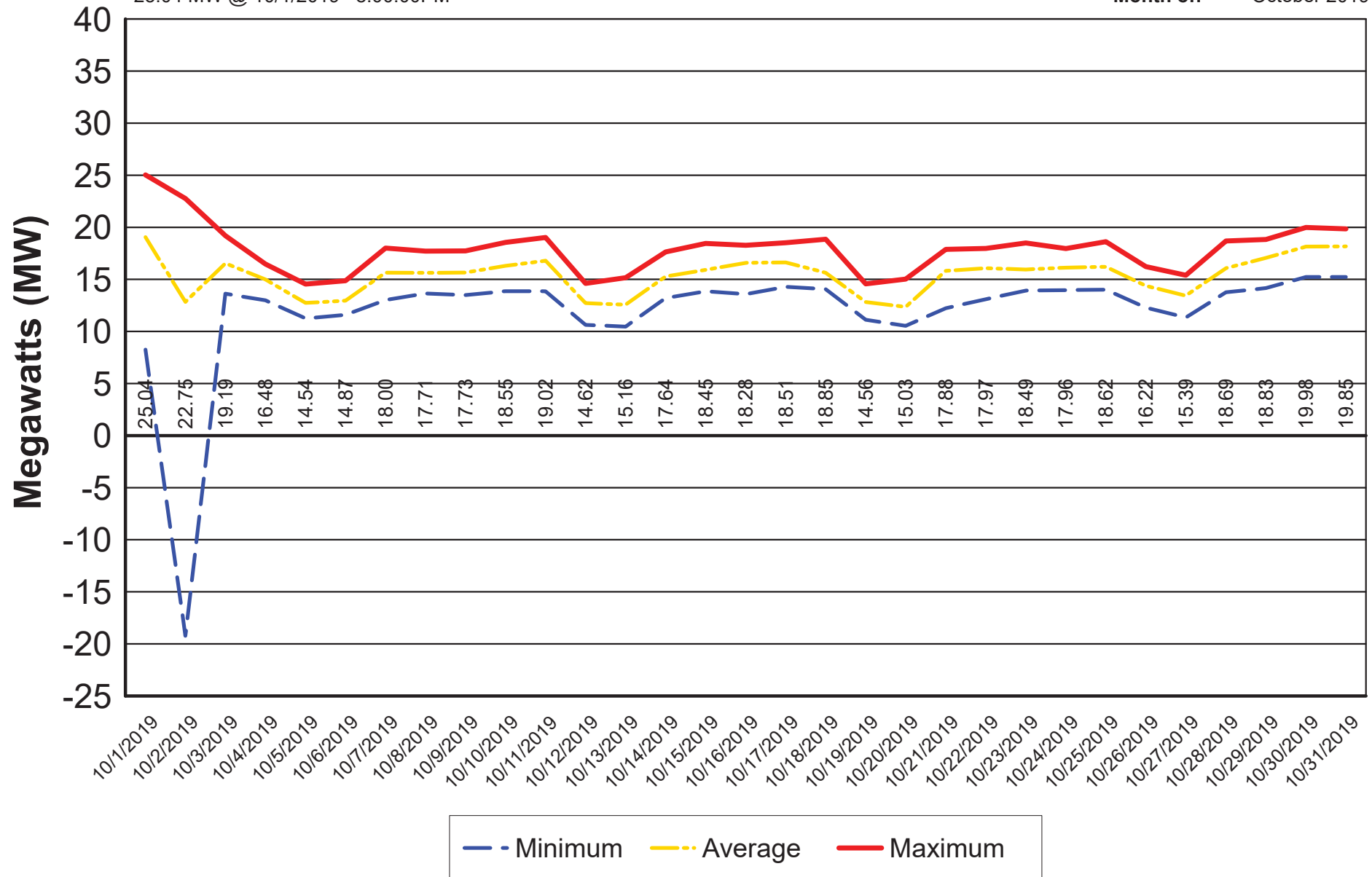
<b>BILLING SUMMARY AND COMPARISON</b>														
<b>SEPTEMBER, 2019</b>														
<b>2019 - NOVEMBER BILLING WITH SEPTEMBER 2019</b>														
Class and/or Schedule	Rate Code	Sep-19 # of Bills	Sep-19 (kWh Usage)	Sep-19 Billed	Cost / kWh For Month	Oct-19 # of Bills	Oct-19 (kWh Usage)	Oct-19 Billed	Cost / kWh For Month	TOTAL KWH USEAGE PRIOR 12 MO	TOTAL BILLING PRIOR 12 MO	Avg.Cost Per kWh For Period	Avg.Num. of Bills For Period	Avg.Per.% of Bills For Period
Residential (Dom-In)	E1	3,359	3,350,534	\$393,425.78	\$0.1174	3,342	2,627,375	\$300,713.94	\$0.1145	26,923,597	\$3,371,027.89	\$0.1252	3,341	56.4887%
Residential (Dom-In) w/Ecosmart	E1E	7	5,542	\$659.37	\$0.1190	6	4,129	\$476.93	\$0.1155	46,021	\$5,901.41	\$0.1282	8	0.1282%
Residential (Dom-In - All Electric)	E2	630	510,776	\$60,676.95	\$0.1188	626	418,793	\$48,478.09	\$0.1158	6,267,687	\$777,355.25	\$0.1240	619	10.4678%
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	859	\$101.69	\$0.1184	1	659	\$76.37	\$0.1159	7,067	\$893.94	\$0.1265	1	0.0169%
<b>Total Residential (Domestic)</b>		<b>3,997</b>	<b>3,867,711</b>	<b>\$454,863.79</b>	<b>\$0.1176</b>	<b>3,975</b>	<b>3,050,956</b>	<b>\$349,745.33</b>	<b>\$0.1146</b>	<b>33,244,372</b>	<b>\$4,155,178.49</b>	<b>\$0.1250</b>	<b>3,969</b>	<b>67.1016%</b>
Residential (Rural-Out)	ER1	783	957,566	\$118,989.72	\$0.1243	787	780,581	\$94,896.91	\$0.1216	9,349,992	\$1,227,735.34	\$0.1313	780	13.1887%
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,819	\$483.39	\$0.1266	4	2,819	\$354.28	\$0.1257	37,180	\$4,995.63	\$0.1344	4	0.0676%
Residential (Rural-Out - All Electric)	ER2	367	472,761	\$58,550.99	\$0.1238	367	388,564	\$46,991.85	\$0.1209	5,264,145	\$683,734.63	\$0.1299	370	6.2505%
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,134	\$267.77	\$0.1255	2	1,794	\$220.01	\$0.1226	26,392	\$3,449.22	\$0.1307	2	0.0338%
Residential (Rural-Out w/Dmd)	ER3	15	14,462	\$1,828.22	\$0.1264	15	12,756	\$1,571.27	\$0.1232	517,904	\$65,411.53	\$0.1263	15	0.2579%
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	9,737	\$1,220.01	\$0.1253	9	8,911	\$1,083.02	\$0.1215	142,703	\$18,440.76	\$0.1292	9	0.1522%
<b>Total Residential (Rural)</b>		<b>1,180</b>	<b>1,460,479</b>	<b>\$181,340.10</b>	<b>\$0.1242</b>	<b>1,184</b>	<b>1,195,425</b>	<b>\$145,117.34</b>	<b>\$0.1214</b>	<b>15,338,316</b>	<b>\$2,003,767.11</b>	<b>\$0.1306</b>	<b>1,180</b>	<b>19.9507%</b>
Commercial (1 Ph-In - No Dmd)	EC2	73	30,579	\$4,830.90	\$0.1580	74	28,344	\$4,423.71	\$0.1561	387,016	\$62,525.88	\$0.1616	72	1.2245%
Commercial (1 Ph-Out - No Dmd)	EC2O	50	13,407	\$2,332.17	\$0.1740	50	10,059	\$1,854.12	\$0.1843	129,947	\$24,616.17	\$0.1894	50	0.8398%
<b>Total Commercial (1 Ph) No Dmd</b>		<b>123</b>	<b>43,986</b>	<b>\$7,163.07</b>	<b>\$0.1628</b>	<b>124</b>	<b>38,403</b>	<b>\$6,277.83</b>	<b>\$0.1635</b>	<b>516,963</b>	<b>\$87,142.05</b>	<b>\$0.1686</b>	<b>122</b>	<b>2.0643%</b>
Commercial (1 Ph-In - w/Demand)	EC1	259	434,957	\$61,778.60	\$0.1420	258	377,106	\$52,169.22	\$0.1383	3,844,412	\$584,696.78	\$0.1521	259	4.3821%
Commercial (1 Ph-Out - w/Demand)	EC1O	24	50,125	\$6,798.92	\$0.1356	24	46,145	\$6,129.64	\$0.1328	526,761	\$74,423.10	\$0.1413	24	0.4100%
<b>Total Commercial (1 Ph) w/Demand</b>		<b>283</b>	<b>485,082</b>	<b>\$68,577.52</b>	<b>\$0.1414</b>	<b>282</b>	<b>423,251</b>	<b>\$58,298.86</b>	<b>\$0.1377</b>	<b>4,371,173</b>	<b>\$659,119.88</b>	<b>\$0.1508</b>	<b>283</b>	<b>4.7922%</b>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	40	\$41.17	\$1.0293	2	240	\$65.91	\$0.2746	38,920	\$5,790.16	\$0.1488	2	0.0338%
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>40</b>	<b>\$41.17</b>	<b>\$1.0293</b>	<b>2</b>	<b>240</b>	<b>\$65.91</b>	<b>\$0.2746</b>	<b>38,920</b>	<b>\$5,790.16</b>	<b>\$0.1488</b>	<b>2</b>	<b>0.0338%</b>
Commercial (3 Ph-In - w/Demand)	EC3	214	2,176,647	\$275,955.59	\$0.1268	214	2,333,225	\$284,939.75	\$0.1221	21,761,686	\$2,919,583.31	\$0.1342	213	3.6086%
Commercial (3 Ph-Out - w/Demand)	EC3O	37	302,688	\$39,850.84	\$0.1317	37	298,438	\$37,614.65	\$0.1260	3,745,483	\$506,962.07	\$0.1354	37	0.6270%
Commercial (3 Ph-Out - w/Dmd.&Sub-St.)	E3SO	3	119,120	\$14,130.30	\$0.1186	3	115,840	\$13,235.25	\$0.1143	1,248,960	\$156,438.21	\$0.1253	3	0.0507%
Commercial (3 Ph-In - w/Demand, No Ta)	EC3T	1	7,360	\$907.68	\$0.1233	1	8,160	\$955.95	\$0.1172	41,840	\$5,471.61	\$0.1308	1	0.0169%
<b>Total Commercial (3 Ph) w/Demand</b>		<b>255</b>	<b>2,605,815</b>	<b>\$330,844.41</b>	<b>\$0.1270</b>	<b>255</b>	<b>2,755,663</b>	<b>\$336,745.60</b>	<b>\$0.1222</b>	<b>26,797,969</b>	<b>\$3,588,445.20</b>	<b>\$0.1339</b>	<b>255</b>	<b>4.3032%</b>
Large Power (In - w/Dmd & Rct)	EL1	15	2,252,991	\$222,017.11	\$0.0985	15	2,215,279	\$211,874.83	\$0.0956	22,217,468	\$2,383,182.91	\$0.1073	16	0.2677%
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	848,595	\$89,630.95	\$0.1056	3	1,062,552	\$99,051.98	\$0.0932	11,911,532	\$1,225,605.03	\$0.1029	3	0.0507%
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	432,000	\$46,652.40	\$0.1080	1	382,800	\$38,486.91	\$0.1005	5,392,800	\$600,417.87	\$0.1113	1	0.0169%
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	82,829	\$14,994.63	\$0.1810	2	82,589	\$13,470.01	\$0.1631	847,013	\$138,010.90	\$0.1629	2	0.0338%
<b>Total Large Power</b>		<b>21</b>	<b>3,616,415</b>	<b>\$373,295.09</b>	<b>\$0.1032</b>	<b>21</b>	<b>3,743,220</b>	<b>\$362,883.73</b>	<b>\$0.0969</b>	<b>40,368,813</b>	<b>\$4,347,216.71</b>	<b>\$0.1077</b>	<b>22</b>	<b>0.3692%</b>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	949,284	\$85,931.28	\$0.0905	1	934,470	\$80,449.52	\$0.0861	10,793,951	\$1,053,371.19	\$0.0976	1	0.0169%
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	813,670	\$78,886.15	\$0.0970	1	892,849	\$79,725.62	\$0.0893	9,121,737	\$924,470.93	\$0.1013	1	0.0169%
<b>Total Industrial</b>		<b>2</b>	<b>1,762,954</b>	<b>\$164,817.43</b>	<b>\$0.0935</b>	<b>2</b>	<b>1,827,319</b>	<b>\$160,175.14</b>	<b>\$0.0877</b>	<b>19,915,688</b>	<b>\$1,977,842.12</b>	<b>\$0.0993</b>	<b>2</b>	<b>0.0338%</b>
Interdepartmental (In - No Dmd)	ED1	10	46,090	\$5,885.60	\$0.1277	10	23,257	\$3,136.55	\$0.1349	403,148	\$53,462.13	\$0.1326	10	0.1634%
Interdepartmental (Out - w/Dmd)	ED2O	2	629	\$105.41	\$0.1676	2	574	\$95.67	\$0.1667	4,685	\$916.76	\$0.1957	2	0.0338%
Interdepartmental (In - w/Dmd)	ED2	27	23,322	\$3,340.49	\$0.1432	27	20,200	\$2,844.59	\$0.1408	525,214	\$75,022.91	\$0.1428	28	0.4664%
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	139,132	\$17,754.02	\$0.1276	10	137,778	\$16,928.90	\$0.1229	1,885,237	\$244,411.54	\$0.1296	10	0.1691%
Interdepartmental (Street Lights)	EDSL	6	21,490	\$2,070.47	\$0.0963	6	21,490	\$2,075.89	\$0.0966	268,514	\$25,672.13	\$0.0956	6	0.0958%
Interdepartmental (Traffic Signals)	EDTS	8	1,410	\$130.39	\$0.0925	8	1,378	\$127.40	\$0.0925	17,468	\$1,615.13	\$0.0925	8	0.1353%
Generators (JV2 Power Cost Only)	GJV2	1	16,041	\$374.08	\$0.0233	1	16,161	\$354.73	\$0.0219	214,694	\$5,864.52	\$0.0273	1	0.0169%
Generators (JV5 Power Cost Only)	GJV5	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	\$0.00	\$0.0000	0	0.0000%
<b>Total Interdepartmental</b>		<b>64</b>	<b>248,114</b>	<b>\$29,660.46</b>	<b>\$0.1195</b>	<b>64</b>	<b>220,838</b>	<b>\$25,563.73</b>	<b>\$0.1158</b>	<b>3,318,960</b>	<b>\$406,965.12</b>	<b>\$0.1226</b>	<b>64</b>	<b>1.0807%</b>
<b>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,927</b>	<b>14,090,596</b>	<b>\$1,610,603.04</b>	<b>\$0.1143</b>	<b>5,909</b>	<b>13,255,315</b>	<b>\$1,444,873.47</b>	<b>\$0.1090</b>	<b>143,911,174</b>	<b>\$17,231,466.84</b>	<b>\$0.1197</b>	<b>5,898</b>	<b>99.7295%</b>
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	0	\$161.24	\$0.0000	14	0.2367%
Street Lights (Out)	SLOO	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	0	\$23.01	\$0.0000	2	0.0338%
<b>Total Street Light Only</b>		<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</b>	<b>0</b>	<b>\$184.25</b>	<b>\$0.0000</b>	<b>16</b>	<b>0.2705%</b>
<b>TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,943</b>	<b>14,090,596</b>	<b>\$1,610,618.40</b>	<b>\$0.1143</b>	<b>5,925</b>	<b>13,255,315</b>	<b>\$1,444,888.83</b>	<b>\$0.1090</b>	<b>143,911,174</b>	<b>\$17,231,651.09</b>	<b>\$0.1197</b>	<b>5,914</b>	<b>100.0000%</b>

# Napoleon Power & Light

## System Load

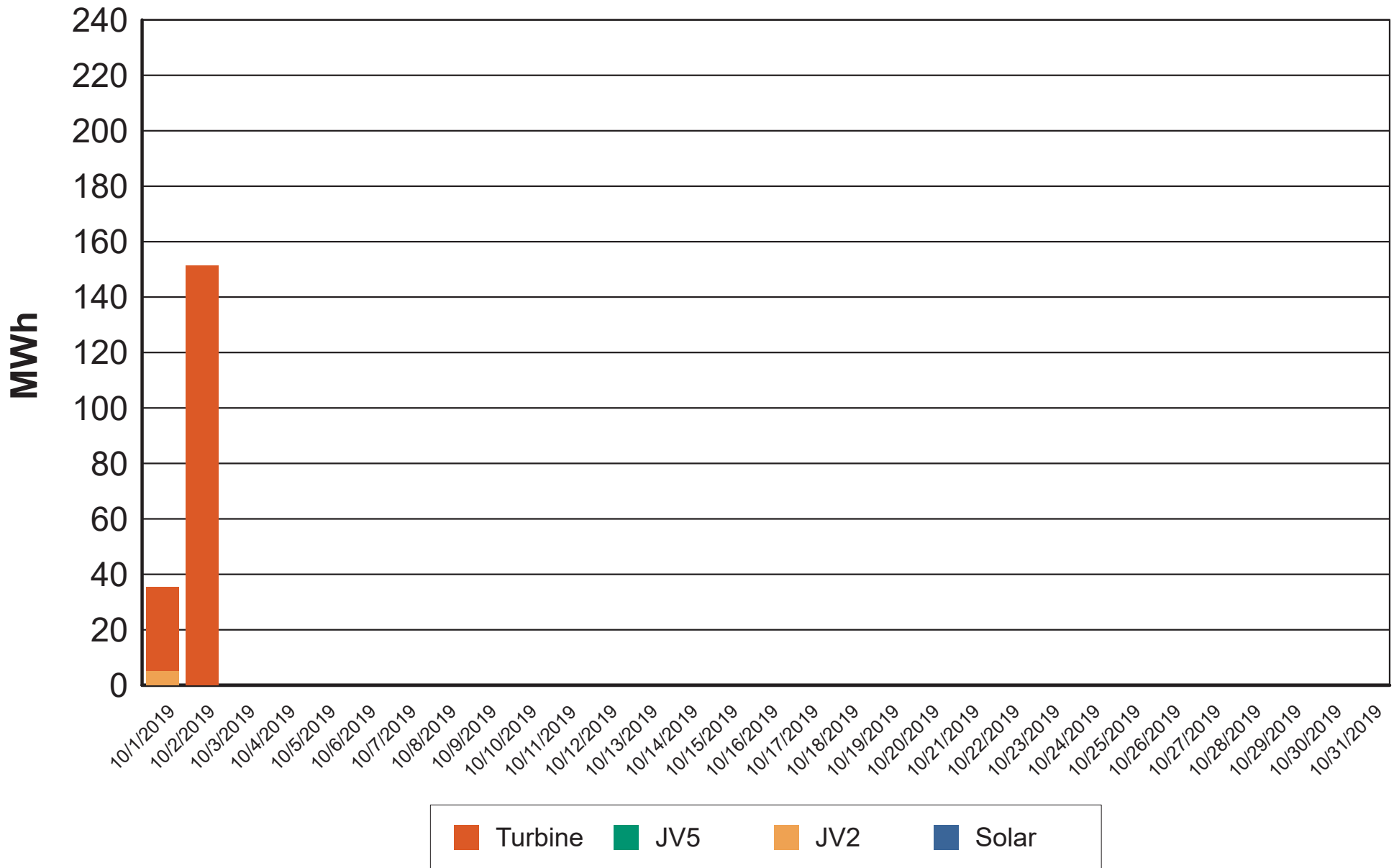
Peak Load:  
25.04 MW @ 10/1/2019 8:00:00PM

Month of: October 2019

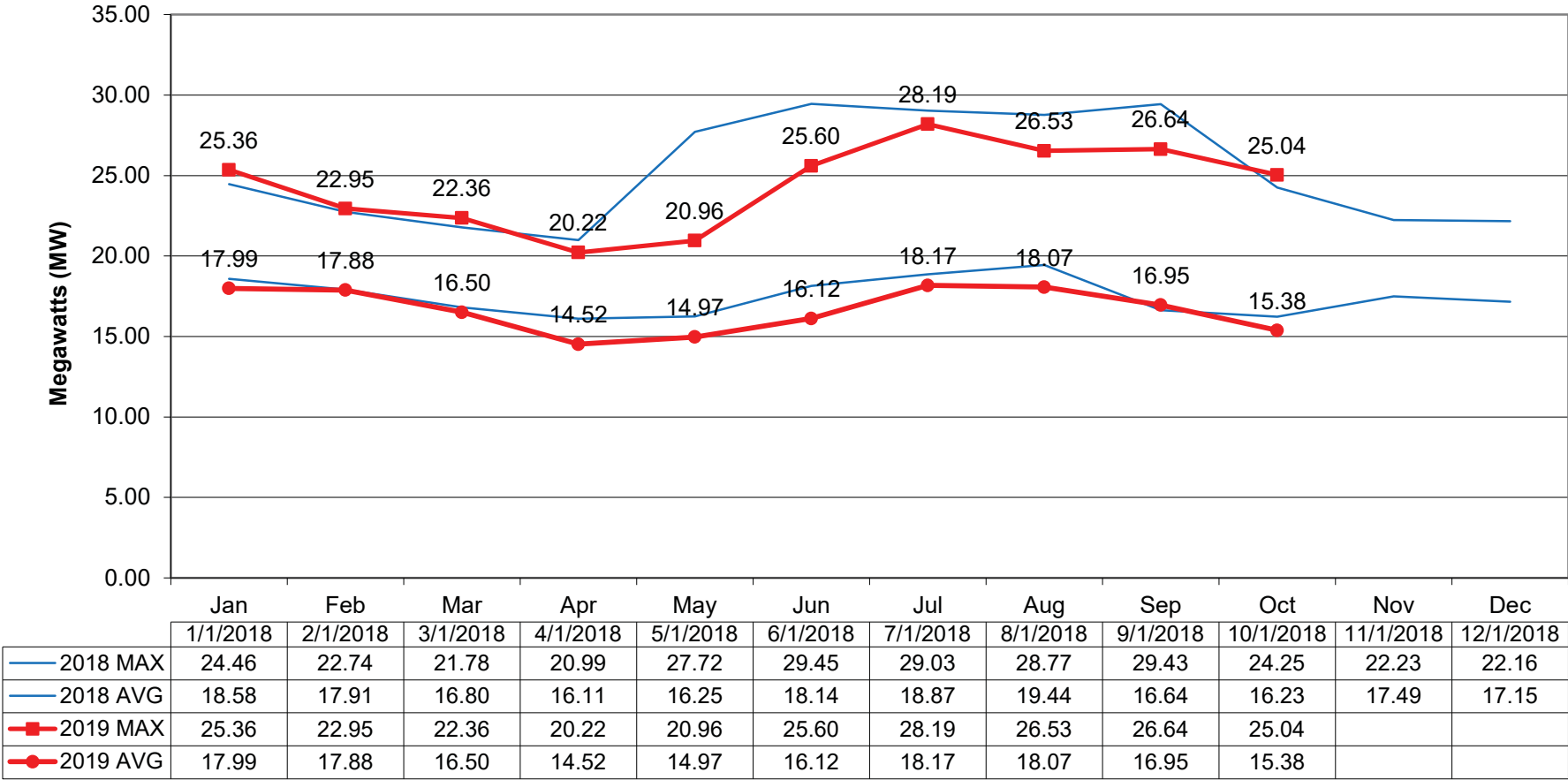


# Napoleon Power & Light

## Daily Generation Output



# NAPOLEON POWER & LIGHT

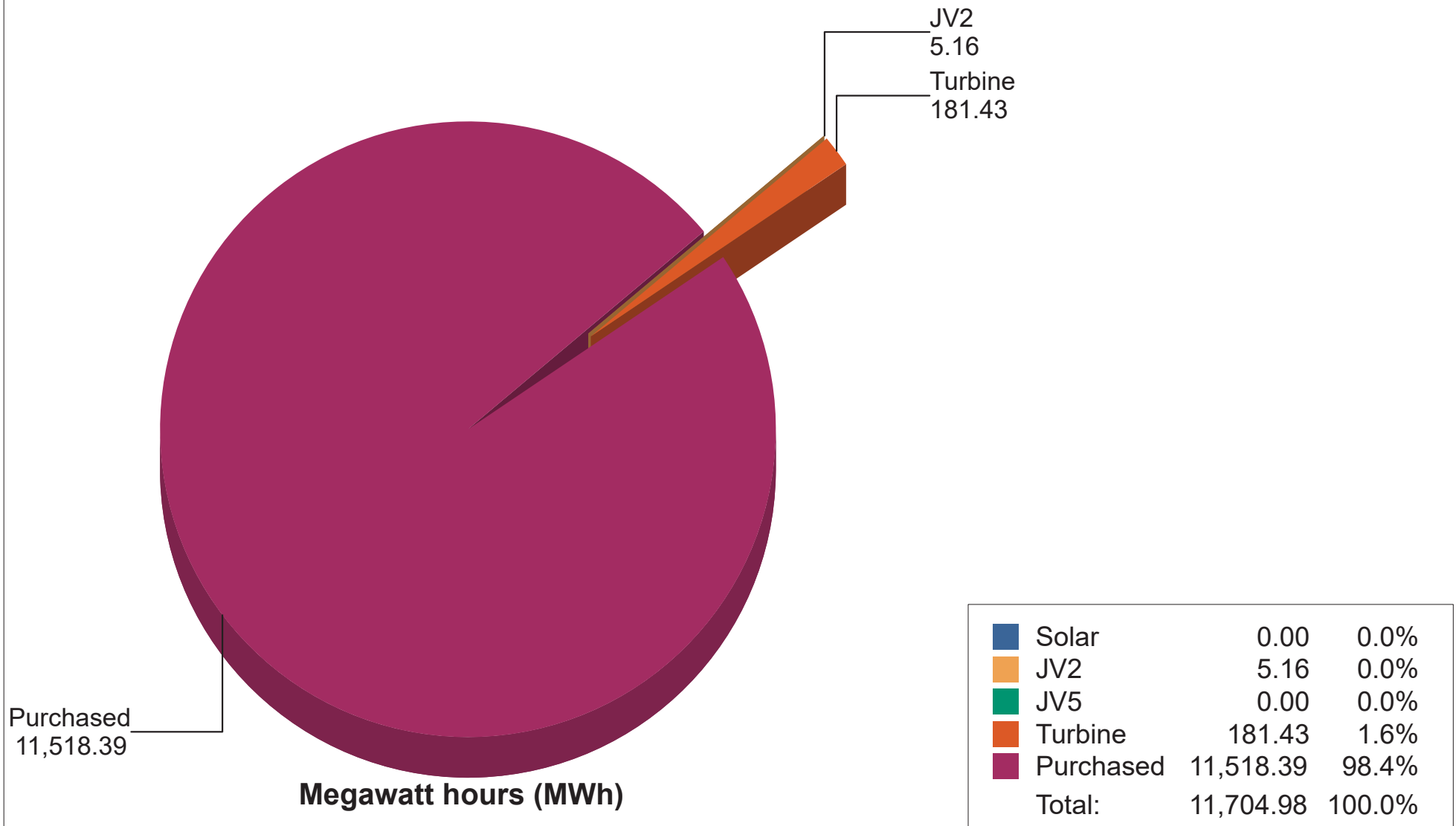


2018 MAX    2018 AVG    2019 MAX    2019 AVG

# Napoleon Power & Light

## Power Portfolio

October 2019





*City of Napoleon, Ohio*

## **BOARD OF PUBLIC AFFAIRS**

Meeting Agenda

**Monday, November 11, 2019 at 6:15 pm**

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1) Approval of Minutes: October 14, 2019 (In the absence of any objections or corrections, the Minutes shall stand approved)
- 2) Review/Approval of the Power Supply Cost Adjustment Factor for November 2019:  
Power Supply Cost Adjustment (PSCA) 3-month averaged factor \$0.00831;  
JV2 \$0.017383
- 3) Update on Condition of Substations
- 4) Electric Department Reports
- 5) Any other matters to come before the Board
- 6) Adjournment



Roxanne Dietrich  
Clerk of Council

## BOARD OF PUBLIC AFFAIRS

Monday, October 14, 2019 at 6:15 pm

Page 1 of 4

	<p><b>Lot of Positive PR</b> - we are advocates on the value of public power. Everyone takes electricity for granted, our program shows we are reinvesting in the community.</p> <p><b>Economic Development</b> - we can help retain existing businesses by lowering their operating costs and we can help them meet any sustainability goals they may have. When you lower the operating costs they can reinvest. When you make them more energy efficient they can add things to make the load grow. We can work as much as you want to help feed information attractive to companies.</p> <p><b>Good Financial Decision</b> - in 2018 our program reduced power cost to \$22 per MWh program wide, PGM territory average cost of energy is \$38 per MWh. Capacity and transmission costs are rising at an unsustainable rate that a lot of municipalities are struggling with. We have designed new services, goals and targets to help mitigate those costs. Your current contract is projected to earn one-third of avoided costs received as a benefit to this program in the form of avoided capacity and transmission cost.</p> <p>Efficiency Smart is a hands on service to help end users reduce their usage in the most objective and beneficial way possible. People do not know where to start and they do not know how to do it, information is critical. We put money behind our recommendations and they believe what we have. Once they've created changes, we try to quantify that. AMP pays a third company to verify the work that we do, our verification rate is 97%. We are here to help people make good investments. Recent changes to the Efficiency Smart program include, we are reaching out to smaller businesses. Small businesses are a really hard market to motivate change as they lack information and the cash flow to make changes. We need to provide more hands on services and get the information they need to them. For the larger businesses we want to expand and go deeper than just lighting, to go into compressed air. We now have a community specific web page for Napoleon, we have online chat features, we have a new heat pump rebate. We still offer the air source heat pump but, now we have a cold climate heat pump that we are able to offer a \$750 rebate on that produces heat more efficiently. DeWit noted the downside is when it is 30 degrees below zero there are not a lot of BTU's to turn on resistance which is a gigantic toaster. Clement stated, for the record, we do not recommend heating your home with a toaster. Bialorucki asked if there is a way to know how much it cost when the TV and lights are left on. Corbin said we have an electric usage monitor that you plug the device into and it will monitor how much the usage is. You can run it for a day and calculate how much you are spending a year. It is the space heater in the bedroom that is hurting you. Dr. Cordes asked about an incentive program for electric cars. Corbin said we have talked about an opportunity to grow the load in a beneficial way, it is critical to manage the peak. If you want to get charging stations, we will want to make sure there is a demand control component so people are not driving the peak prices up. It's about growing the load without growing your peak. There are different ways we can approach this, it's a matter of doing it right so it's healthy for the whole system. We have already hit our goal for this contract cycle, we are at 133%. There has been over 45,000 MWh of lifetime savings that is \$4,177,648 in customer savings. The summer peak reduction of 385 kW has a financial benefit of over \$600,000. Benefit-to-cost ratio is 4.4 to 1 the levelized cost is \$14.28. Long on power means you have 120% of power needed for next year. At the end of the day, AMP sells back excess power</p>
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*City of Napoleon, Ohio*

**MUNICIPAL PROPERTIES, BUILDINGS, LAND USE, AND ECONOMIC DEVELOPMENT  
COMMITTEE**

**SPECIAL MEETING AGENDA**

**Monday, November 11, 2019 at 6:45 pm**

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1) Approval of Minutes: September 09, 2019 (In the absence of any objections or corrections, the Minutes shall stand approved)
- 2) NORA Review
- 3) Any other matters currently assigned to the Committee
- 4) Adjournment



Roxanne Dietrich  
Clerk of Council

## **MUNICIPAL PROPERTIES, BUILDINGS, LAND USE, AND ECONOMIC DEVELOPMENT COMMITTEE**

### **MEETING MINUTES**

Monday, September 09, 2019 at 7:30 PM

<b>PRESENT</b>	
Members:	Lori Siclair-Chair, Jeff Mires, Jason Maassel, Joseph D. Bialorucki
City Manager	Joel Mazur
<b>City Finance Director</b>	Kelly O'Boyle
Recording Secretary	Roxanne Dietrich
City Staff	Chad
Others	Brian Koeller-Northwest Signal, Mike Saneholtz-Henry Co. Transportation Network
<b>ABSENT</b>	
<b>Call to Order</b>	Chairman Siclair called the Municipal Properties, Building, Land Use and Economic Development Committee meeting to order at 7:37 pm.
<b>Approval of Minutes</b>	Hearing no objections or corrections, the minutes from the July 08, 2019 meeting stand approved as presented.
<b>Henry County Transportation Network</b>	Mike Saneholtz the Director of the Henry County Transportation Network (HCTN) explained how an additional transportation vehicle could benefit the City of Napoleon. Currently, HCTN serves the Senior Center, Job and Family Services, Veterans Service Board, Hope Services and the court system. We are in support with Renewed Minds going to areas where they need transportation in the county, we serve the Henry County Hospital and have contracted with them to take people home from the ER any time of the day, which is a big relief to the Napoleon Police Department. The new grant for 2020 is the 5311 ODOT grant that is monitored by ODOT with federal money. The State of Ohio was awarded \$72 million and Napoleon has an opportunity to become part of this grant with a 20% match of \$11,938. With this grant, Napoleon would acquire a 14-passenger bus with two wheelchair tie downs that can be utilized by HCTN to transport the residents of Napoleon. The vehicle will be arriving this month, the fee to us is already paid. This vehicle will be available to all residents and Medicare clients and will enable Henry County Seniors to go different places. There will be a deviated route system, people can call ahead and we can help them get to places they need to go. The next biggest thing is employment, this system will get people to work in the city, we will include JAC Products, the Campbell Soup Company and Keller Logistics. This route will also service residents in the areas that are not very accessible like Glenwood Estates, Glen Arbor Apartments and Ken James, you can have all the roundabouts you want and there will still be people walking to Walmart, this bus can take care of that. There will be a \$2.00 ride fee, a round trip will cost \$4.00. This can be utilized in a CTS system, this is

people to stop walking along St. Rt. 108 on icy, snowy days might be worth the price; and, it will help get people to an We are now helping employers, we are helping the under- better jobs, we are helping local employers get more quali an investment of \$12,000. Saneholtz added this can grow around 250,000 miles and last 8 to 10 years. The City of De on board and will be in operation next year. There are oth we are speaking with, the bus will stay in Henry County, in could become a four-county transportation. We receive a appointments that we cannot fulfil and this will give more for employment that we don't have, the only employment supporting Hope Services. Bialorucki asked how will you p employee? Saneholtz answered the \$2.00 per ride will hel cost of gas, insurance, and maintenance. There will be a lo This has worked in small cities already, ODOT monitors it a it, this will be a good thing to show and use, there could be money available in time. Siclair wondered if the Commissi has been approached, will they be spending money on this the Commissioners spent \$82,000 for the program of moni vehicles, we are working on a system now where we have now completely paperless and they paid for that CTS syste have been very good in supplying a building that they purc Fortunately for them, part of this grant can repay a large p they've already done in the expansion of the old Buckeye E also pay a percentage of the maintenance person that's th went above and beyond to support this monetarily.

Passed  
Yea-4  
Nay-0

Roll call vote on the above motion:  
Yea-Sicclair, Bialorucki, Mires, Maassel  
Nay-

## **2020 Annual Resurfacing Project**

Mazur pointed out this will need to be discussed during budget talks, what is the time frame you looking at? Saneholtz said after the first of the year, the buses will come in, we will set them up, market it and let people how know it works. Mazur asked what is the grant cycle? Saneholtz said you apply for the grant every year in August.

Mazur went over the list of projected projects for 2020 from Chad's Memo that was in the packet (a copy of the Memo is attached), this list does not include Lynne Avenue. South Perry Street Resurfacing will be in conjunction with ODOT. Lulfs noted ODOT prepared the plans and surveyed South Perry Street, their estimate is \$130,000. They will have the project ready to go out to bid right after the first of the year. Maassel added not during the Fair. Lulfs said that is on the plans.

East and West Graceway Street Improvements is estimated at \$450,000.

Glenwood Waterline Improvements-we've had trouble with this line for sometime. Lulfs added if we're going to have a new pool, we need to have a better waterline, this project is estimated at \$155,000.

Euclid Avenue Sanitary Sewer Repair is estimated at \$20,000 for pavement repair not the project.

American Road Improvements (Design 2020) is estimated at \$150,000. The design will come from one of the grant sources, we are meeting with Love's in a couple of weeks. Lulfs cited a lot of funding sources are reimbursements and will have to budget for. Bialorucki asked how much is coming from Love's? Lulfs estimated the cost of work they would be required to do for the road at \$1 million to \$1.2 million. Mazur said MVPO is the lead agency on this project, the only grant we have to manage is Ohio Jobs and Commerce the remainder will be managed by MVPO.

St. Rt. 108 & U.S. Route 6/24 Interchange (Design) estimated at \$351,850. Lulfs said we may not need the total amount, we are waiting for an answer from ODOT, offered to contribute 10%, 10% of engineering is much less than 10% of the project. ODOT will manage this project.

Oakwood Avenue Improvements (Design 2020) – estimated cost \$400,000. We received word we were awarded a grant from the Small Cities Program in the amount of \$2 million. A majority of the work will be reconstruction we will resurface what we can salvage. Total project cost is estimated at \$4 million, design is 10% of that and will start around January/February 2020 with construction in 2022 or 2023, want to make sure it is not at the same time as Scott Street. Mazur stated we have to figure out a way to finance the remainder of the Oakwood Project. We will have to come up with another \$2 million. The cost does not include water the majority of storm sewer needs to be replaced as much of it has failed. Bialorucki wanted to know if there is the potential for American Road, Oakwood and



**Oakwood Avenue Grant  
Added to Sept. 16, 2019  
Agenda as D/A Item**

## Motion to Adjourn

Passed  
Yea-4  
Nay-0

**Approved**

Lori Siclair – Chair



# City of Napoleon, Ohio

255 West Riverview Avenue, P.O. Box 151

Napoleon, OH 43545

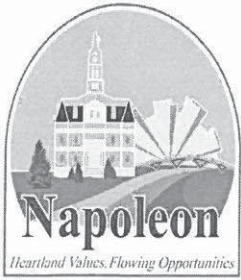
Telephone: (419) 599-1235 Fax: (419) 599-8393

[www.napoleonohio.com](http://www.napoleonohio.com)

## Memorandum

**To:** City Council, Mayor, City Manager, City Law Director, City Finance Director, Department Supervisors, News media  
**From:** Roxanne Dietrich, Clerk of Council   
**Date:** November 7, 2019  
**Subject:** Water, Sewer, Refuse, Recycling and Litter Committee – Cancellation

The regularly scheduled meeting of the **Water, Sewer, Refuse, Recycling and Litter Committee** for Monday, November 11, 2019 at 7:00 pm has been CANCELED due to lack of agenda items.



# *City of Napoleon, Ohio*

255 West Riverview Avenue, P.O. Box 151

Napoleon, OH 43545

Telephone: (419) 599-1235 Fax: (419) 599-8393

[www.napoleonohio.com](http://www.napoleonohio.com)

## *Memorandum*

**To:** Mayor and City Council, City Manager, City  
Law Director, City Finance Director,  
Department Supervisors, News media

**From:** Roxanne Dietrich, Clerk of Council *rd*

**Date:** November 7, 2019

**Subject:** Privacy Committee – Cancellation

The Privacy Committee meeting scheduled for Tuesday, November 12, 2019 at 10:30 am has been *canceled*.



# City of Napoleon, Ohio

255 West Riverview Avenue, P.O. Box 151  
Napoleon, OH 43545  
Telephone: (419) 592-4010 Fax: (419) 599-8393  
[www.napoleonohio.com](http://www.napoleonohio.com)

## Memorandum

**To:** Board of Zoning Appeals, City Council, Mayor, City  
Manager, City Law Director, City Finance  
Director, Department Supervisors, News media  
**From:** Roxanne Dietrich, Clerk of Council  
**Date:** November 07, 2019  
**Subject:** BZA – Cancellation

The regularly scheduled meeting of the Board of Zoning Appeals set for Tuesday, November 12, 2019 at 4:30 pm has been CANCELED due to lack of agenda items.





# City of Napoleon, Ohio

255 West Riverview Avenue, P.O. Box 151

Napoleon, OH 43545

Telephone: (419) 599-1235 Fax: (419) 599-8393

[www.napoleonohio.com](http://www.napoleonohio.com)

## Memorandum

**To:** City Council, Mayor, City Manager, City Law  
Director, City Finance Director, Department  
Supervisors, News media

**From:** Roxanne Dietrich, Clerk of Council *[Signature]*

**Date:** November 7, 2019

**Subject:** Planning Commission – Cancellation

The regularly scheduled meeting of the **PLANNING COMMISSION** for Tuesday, November 12, 2019 at 5:00 pm has been *canceled* due to a lack of agenda items.



# City of NAPOLEON, Ohio

## Operations Department

1775 Industrial Dr., P.O. Box 151, Napoleon, OH 43545

Phone: 419/599-1891 Fax: 419/592-4379

### MEMORANDUM

**To:** Chad Lulfs, P.E. and P.S. Director of Public Works  
**From:** Jeffrey Rathge, Operations Superintendent  
**Date:** October 10, 2019  
**Subject:** 2019 Fall Clean Up Summary

		EXPENSES					
LABOR	HOURS	2019	2018	2017	2016		
Regular rate - includes 38.5% for benefits and longevity	407.0	\$ 10,506.61	\$ 10,223.38	\$ 10,486.38	\$ 11,338.69		
Overtime rate - includes 38.5% for benefits and longevity	52.0	\$ 2,158.35	\$ 2,050.08	\$ 484.52	\$ 52.12		
<b>TOTAL</b>	<b>459.0</b>	<b>\$ 12,664.96</b>	<b>\$ 12,273.45</b>	<b>\$ 10,970.90</b>	<b>\$ 11,390.81</b>		
TRUCK RENTAL	HOURS	2019	2018	2017	2016		
Truck #293	25.0	\$ 3,100.00	\$ 4,836.00		\$ 3,654.28		
Truck #443	37.0	\$ 4,588.00	\$ 2,418.00		\$ 4,325.12		
Truck #403	10.0	\$ 1,240.00	\$ 2,480.00				
<b>TOTAL</b>	<b>72</b>	<b>\$ 8,928.00</b>	<b>\$ 9,734.00</b>	<b>\$ 8,620.48</b>	<b>\$ 7,979.40</b>		
FUEL FOR CITY TRUCKS	GALLONS	2019	2018	2017	2016		
Truck #39	155.51	\$ 489.32	\$ 447.87	\$ 465.81	\$ 291.88		
Truck #42	29.10	\$ 89.00	\$ 69.77	\$ 61.71	\$ 75.05		
Truck #43	16.01	\$ 51.20	\$ 99.72	\$ 109.23	\$ 76.54		
Truck #44	0.00	\$ -	\$ 91.07		\$ 63.71		
<b>TOTAL</b>	<b>200.61</b>	<b>\$ 629.52</b>	<b>\$ 708.43</b>	<b>\$ 636.75</b>	<b>\$ 507.18</b>		
LANDFILL WASTE DISPOSAL	LOADS	TONS	2019	2018	2017	2016	
09/30/19	6	45.18	\$ 1,802.16	\$ 1,465.22	\$ 1,952.44	\$ 1,679.21	
10/01/19	7	49.65	\$ 2,035.80	\$ 1,975.81	\$ 1,715.87	\$ 1,451.07	
10/02/19	7	45.73	\$ 1,988.76	\$ 1,969.65	\$ 1,762.78	\$ 1,629.77	
10/03/19	6	44.24	\$ 1,790.88	\$ 1,970.64	\$ 1,739.32	\$ 1,146.35	
10/04/19	2	15.81	\$ 549.72	\$ 570.00	\$ -	\$ 393.87	
<b>TOTAL</b>	<b>28</b>	<b>200.61</b>	<b>\$ 8,167.32</b>	<b>\$ 7,951.32</b>	<b>\$ 7,170.41</b>	<b>\$ 6,300.27</b>	
SCRAP TIRE DISPOSAL	COUNT	TONS	2019	2018	2017	2016	
10/04/19	24	0.44	\$ 88.00	\$ 16.80	\$ 34.80	\$ 48.80	
<b>TOTAL</b>	<b>24</b>	<b>0.44</b>	<b>\$ 88.00</b>	<b>\$ 16.80</b>	<b>\$ 34.80</b>	<b>\$ 48.80</b>	
<b>TAGS PURCHASED (23 Car, 0 Semi, 1 Tractor)</b>			<b>\$ 58.00</b>	<b>\$ 22.00</b>	<b>\$ 52.00</b>	<b>\$ 104.00</b>	
		PROFIT					
SCRAP METALS	LOADS	TONS	2019	2018	2017	2016	
09/30/19	18	7.61	\$ 456.60	\$ 1,111.60	\$ 1,131.20		
10/01/19	13	5.51	\$ 330.60	\$ 747.60	\$ 848.40		
10/02/19	16	6.56	\$ 393.60	\$ 694.40	\$ 779.80		
10/03/19	15	5.66	\$ 339.60	\$ 838.60	\$ 795.20		
10/04/19	5	1.932	\$ 115.92	\$ 133.00		\$ 1,844.80	
aluminum cans				\$ 6.80			
14 freon appliances			\$ (70.00)	\$ (68.00)	\$ (45.00)	\$ (55.00)	
<b>TOTAL</b>	<b>67</b>	<b>27.272</b>	<b>\$ 1,566.32</b>	<b>\$ 3,464.00</b>	<b>\$ 3,509.60</b>	<b>\$ 1,789.80</b>	
<b>TAGS PURCHASED</b>			<b>\$ 140.00</b>	<b>\$ 170.00</b>	<b>\$ 90.00</b>	<b>\$ 110.00</b>	
<b>2019 TOTAL FALL CLEANUP</b>			<b>\$ 28,911.48</b>	<b>\$ 27,220.00</b>	<b>\$ 23,923.74</b>	<b>\$ 24,436.66</b>	