

# October 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7 7:00 pm City Council	8 4:30 pm BZA	9	10	11	12
13	14 6:15 pm Electric Comm. 6:15 pm BOPA	15	16	17	18	19
20	21 6:00 pm Park & Rec Comm 6:00 pm Tree Commission 7:00 pm City Council	22 9:00 am Park St. Bid Opening at Commissioners 4:30 pm Civil Service	23	24	25	26
27	28 6:30 pm Finance & Budget 7:30 pm Safety & HR Comm	29	30 11:00 am Bid Opening WWTP Phase I 6:30 pm Park & Rec Bd.	31 Halloween	Notes:	

*City of Napoleon, Ohio*

## **ELECTRIC COMMITTEE**

Meeting Agenda

**Monday, October 14, 2019 at 6:15 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) Review/Approval of the Power Supply Cost Adjustment Factor for October 2019: PSCA 3-month averaged factor \$0.00794; JV2 \$0.021949
- 3) Efficiency Smart Agreement
- 4) Update on Condition of Substations
- 5) Electric Department Reports
- 6) Any other matters to come before the Committee
- 7) Adjournment

  
\_\_\_\_\_  
Roxanne Dietrich  
Interim Clerk of Council

*City of Napoleon, Ohio*

## ELECTRIC COMMITTEE

## Meeting Minutes

## PRESENT

Committee Members  
Board of Public Affairs  
City Manager  
City Finance Director  
Recording Secretary  
City Staff  
Others

Travis Sheaffer-Chair (arrived at 6:28 pm), Lori Siclair, Joseph D. Bialorucki  
Dr. David Cordes-Chair, Mike DeWit, Rory Prigge  
Joel Mazur  
Kelly O'Boyle  
Roxanne Dietrich  
Dennie Clapp-Electric Distribution Superintendent  
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 July 08, 2019 Electric Committee meeting stand approved as presented.

## September 2019 PSCAF Discussion

Mazur reported the power supply cost adjustment factor is down compared to the past year. A big factor is our usage is way up. At the end of 2020, the Morgan Stanley contract will end and we could see a drop in our electric rates in the range of 7% to 8%. With our usage up and using our long on power, we're not having to sell it on the market for a fraction of what we are making it for. The market is somewhere around \$30-\$40/MW and the Morgan Stanley contract a few years ago was at \$62/MW. With JAC Products coming online our load will continue to grow, they are currently at 283 employees.

Prigge asked if JAC Products is up to capacity? Mazur responded the Human Resources Director told me by this time next year they may be up to 385 to 400 employees, they are hiring mostly local people.

## Motion to Accept the BOPA Recommendation to Approve the September 2019 PSCAF

Motion: Siclair Second: Bialorucki  
to accept the BOPA recommendation to approve the Power Supply Cost  
Adjustment Factor for September 2019: PSCA three month averaged factor  
\$0.01255; JV2 \$0.023321.

Passed  
Yea-2  
Nay-0

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

**Pole Attachment  
Agreement with  
Okolona Telephone Co.  
dba bright.net**

Mazur stated we would like to enter into a pole attachment agreement with Okolona Telephone Company dba bright.net. The agreement will allow them to put their utilities on our poles for an annual fee and will be the same as the one we have with Ridgeville Telephone Company. Clapp said the annual attachment

## Sheaffer Arrived

**Motion to Accept BOPA  
Recommendation Enter  
into Agreement with  
Okolona Telephone**

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

## Electric Department Reports

## Other Matters

## Efficiency Smart Agreement Assigned to Electric Committee and BOPA October Agenda

**Motion to Adjourn  
Electric Committee Mtg.**

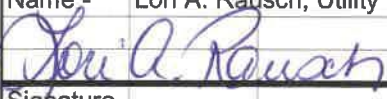

Passed  
Yea-3  
Nay-0

**Approved**

**October 14, 2019**

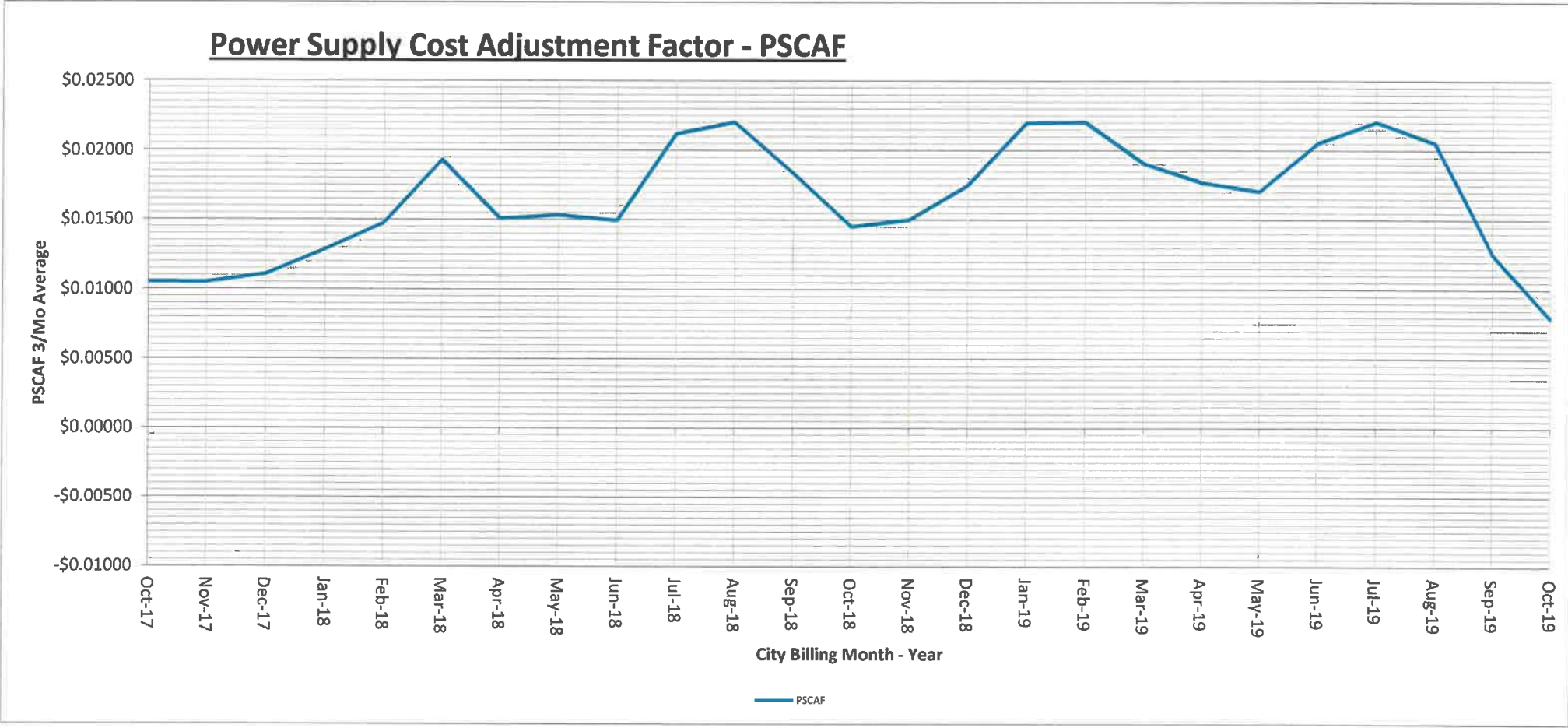
U:\~ My Files\ - RECORDS CLERK\2019\COMMITTEES and BOARDS\ELECTRIC Committee\09 09 2019\09 09 2019 Electric Comm DRAFT Minutes.docx  
Records Retention: FIN-33 Permanent

**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-Corrted. 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
Aug'17	Oct '17	14,326,956	\$ 1,182,800.05	42,480,669	\$ 3,472,029.96	\$ 0.08173	\$ (0.07194)	\$ 0.00979	\$ 0.01052
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
* Total Includes Other (-) Credits / (+) Debits in Purchased Power Costs, Not Listed on AMP Billings:									
<b>PSCAF - Preparers Signature:</b>					<b>PSCAF - Reviewers Signature:</b>				
Name - Lori A. Rausch, Utility Billing Administrator					Name - Christine R. Peddicord, Asst. Finance Director				
									
9/18/2019					9/18/2019				
Signature					Signature				
Date					Date				

Down





**BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - OCTOBER, 2019**

2019 - OCTOBER BILLING WITH AUGUST 2019 AMP BILLING PERIOD AND SEPTEMBER 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	AUGUST, 2019	31	28.923						
City-System Data Month	SEPTEMBER, 2019	30							
City-Monthly Billing Cycle	OCTOBER, 2019	31							
=====CONTRACTED AND OPEN MARKET POWER=====									
=====PEAKING=====									
=====HYDRO POWER=====									
PURCHASED POWER-RESOURCES -> (	AMP CT	ENERGY	SCHED. @ PJMC	REPLMT.2015-20	POWER	PEAKING	AMP-HYDRO	MELDAHL-HYDRO	GREENUP HYDRO
(	SCHED. @ ATSI	SCHEDULED	REPLMT@ PJMC	7x24 @ AD	POOL	SCHED. @ ATSI	SCHED. @ PJMC	MELDAHL BUS	GREENUP BUS
Delivered kWh (On Peak) ->	92,073	4,784,292	3,657,440	2,827,200	118,628	1,298	1,652,892	210,296	164,193
Delivered kWh (Off Peak) ->					9,826				
Delivered kWh (Replacement/Losses/Offset) ->									
Delivered kWh/Sale (Credits) ->					-2,334,595				
Net Total Delivered kWh as Billed ->	92,073	4,784,292	3,657,440	2,827,200	-2,206,141	1,298	1,652,892	210,296	164,193
Percent % of Total Power Purchased->	0.6440%	33.4620%	25.5806%	19.7738%	-15.4300%	0.0091%	11.5605%	1.4708%	1.1484%
<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	-\$21,091.54	-\$11,239.22			-\$818.35	-\$2,517.95	-\$1,249.92	-\$659.41
Sub-Total Demand Charges	-\$43,274.77	\$60,451.46	\$157,802.90	\$0.00	\$0.00	-\$986.68	\$171,507.55	\$12,088.60	\$7,117.51
<b>ENERGY CHARGES (+Debits):</b>									
Energy Charges - (On Peak)	\$8,337.17	\$107,657.88	\$30,019.62	\$177,972.24	\$4,749.01		\$59,504.10	\$7,570.64	\$1,477.74
Energy Charges - (Replacement/Off Peak)					\$170.26				
Net Congestion, Losses, FTR		\$4,728.97	\$3,638.39	-\$79.20			\$1,624.67	\$30.89	\$13.19
Transmission Charges (Energy-Debits)			\$14,562.38						
ESPP Charges									
Bill Adjustments (General & Rate Levelization)		-\$952.43				\$121.32			
<b>ENERGY CHARGES (-Credits or Adjustments):</b>									
Energy Charges - On Peak (Sale or Rate Stabilization)					-\$53,341.56				
Net Congestion, Losses, FTR					\$4,812.19				
Bill Adjustments (General & Rate Levelization)			-\$19,384.43				-\$9,917.35	-\$1,261.77	-\$985.16
Sub-Total Energy Charges	\$8,337.17	\$111,434.42	\$28,835.96	\$177,893.04	-\$43,610.10	\$121.32	\$51,211.42	\$6,339.76	\$505.77
<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	-\$34,937.60	\$171,885.88	\$186,638.86	\$177,893.04	-\$43,610.10	-\$865.36	\$222,718.97	\$18,428.36	\$7,623.28
Percent % of Total Power Cost->	-3.1092%	15.2965%	16.6094%	15.8311%	-3.8810%	-0.0770%	19.8203%	1.6400%	0.6784%
Purchased Power Resources - Cost per kWh->	-\$0.379455	\$0.035927	\$0.051030	\$0.062922	-\$0.019768	-\$0.666687	\$0.134745	\$0.087631	\$0.046429

**BILLING SUMMARY AND CONS**

2019 - OCTOBER BILLING WITH AUGUST 2019

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 -	
<b>PURCHASED POWER-RESOURCES -&gt;</b>	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) ->	618,827	2,297,472	16,661	147,642	0	0	0	0	16,588,914	
Delivered kWh (Off Peak) ->									9,826	
Delivered kWh (Replacement/Losses/Offset) ->		33,562							33,562	
Delivered kWh/Sale (Credits) ->									-2,334,595	
<b>Net Total Delivered kWh as Billed -&gt;</b>	<b>618,827</b>	<b>2,331,034</b>	<b>16,661</b>	<b>147,642</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,297,707</b>	
Percent % of Total Power Purchased->	4.3282%	16.3036%	0.1165%	1.0326%	0.0000%	0.0000%	0.0000%	0.0000%	100.0001%	
								Verification Total ->	100.0000%	
<b>COST OF PURCHASED POWER:</b>										
<b>DEMAND CHARGES (+Debits)</b>										
Demand Charges	\$5,904.68	\$31,085.29	\$682.37			\$152,634.68			\$514,339.02	
Debt Services (Principal & Interest)		\$55,367.84							\$210,929.74	
<b>DEMAND CHARGES (-Credits)</b>										
Transmission Charges (Demand-Credits)		-\$15,469.87	-\$136.05	-\$2,890.30					-\$62,849.97	
Capacity Credit	-\$2,851.75	-\$9,237.08	-\$234.83	-\$1,689.27					-\$84,546.51	
<b>Sub-Total Demand Charges</b>	<b>\$3,052.93</b>	<b>\$61,746.18</b>	<b>\$311.49</b>	<b>-\$4,579.57</b>	<b>\$0.00</b>	<b>\$152,634.68</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$577,872.28</b>	
<b>ENERGY CHARGES (+Debits):</b>										
Energy Charges - (On Peak)	\$9,229.31	\$40,968.29		\$5,654.67		\$6,315.86			\$459,456.53	
Energy Charges - (Replacement/Off Peak)									\$170.26	
Net Congestion, Losses, FTR	\$1,864.92								\$11,821.83	
Transmission Charges (Energy-Debits)									\$14,562.38	
ESPP Charges					\$16,959.16				\$16,959.16	
Bill Adjustments (General & Rate Levelization)									-\$831.11	
<b>ENERGY CHARGES (-Credits or Adjustments):</b>										
Energy Charges - On Peak (Sale or Rate Stabilization)									-\$53,341.56	
Net Congestion, Losses, FTR									\$4,812.19	
Bill Adjustments (General & Rate Levelization)	\$166.26								-\$31,382.45	
<b>Sub-Total Energy Charges</b>	<b>\$11,260.49</b>	<b>\$40,968.29</b>	<b>\$0.00</b>	<b>\$5,654.67</b>	<b>\$16,959.16</b>	<b>\$6,315.86</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$422,227.23</b>	
<b>TRANSMISSION &amp; SERVICE CHARGES, MISC.:</b>										
RPM / PJM Charges Capacity - (+Debit)						\$112,280.28			\$112,280.28	
RPM / PJM Charges Capacity - (-Credit)									\$0.00	
Service Fees AMP-Dispatch Center - (+Debit/-Credit)							\$130.79		\$130.79	
Service Fees AMP-Part A - (+Debit/-Credit)							\$2,867.34		\$2,867.34	
Service Fees AMP-Part B - (+Debit/-Credit)							\$8,313.02		\$8,313.02	
Other Charges & Bill Adjustments - (+Debit/-Credit)									\$0.00	
<b>Sub-Total Service Fees &amp; Other Charges</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$112,280.28</b>	<b>\$11,311.15</b>	<b>\$0.00</b>	<b>\$123,591.43</b>	
<b>TOTAL NET COST OF PURCHASED POWER</b>	<b>\$14,313.42</b>	<b>\$102,714.47</b>	<b>\$311.49</b>	<b>\$1,075.10</b>	<b>\$16,959.16</b>	<b>\$271,230.82</b>	<b>\$11,311.15</b>	<b>\$0.00</b>	<b>\$1,123,690.94</b>	
Percent % of Total Power Cost->	1.2738%	9.1408%	0.0277%	0.0957%	1.5092%	24.1375%	1.0066%	0.0000%	100.000%	
<b>Purchased Power Resources - Cost per kWh-&gt;</b>	<b>\$0.023130</b>	<b>\$0.044064</b>	<b>\$0.018696</b>	<b>\$0.007282</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.078592</b>	
								Verification Total ->	\$1,123,690.94	
								(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWH) = JV2 Electric Service Rate ->	\$0.021949	
								(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWH) = JV5 Electric Service Rate ->	\$0.021949	



**AMERICAN MUNICIPAL POWER, INC.**

1111 Schrock Rd, Suite 100

COLUMBUS, OHIO 43229

PHONE: (614) 540-1111

FAX: (614) 540-1078

INVOICE NUMBER: 207382

INVOICE DATE: 9/13/2019

DUE DATE: 9/30/2019

TOTAL AMOUNT DUE: \$1,123,690.94

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 - August, 2019**

MUNICIPAL PEAK: 28,923 kW  
TOTAL METERED ENERGY: 14,332,785 kWh

Total Power Charges:	\$841,148.97
Transmission / Capacity / Ancillary Services:	\$271,230.82
Total Other Charges:	\$11,311.15
Total Miscellaneous Charges:	\$0.00

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**GRAND TOTAL POWER INVOICE: \$1,123,690.94**

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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 August , 2019**  
**Napoleon**

FOR THE MONTH OF:

August, 2019

Total Metered Load kWh:	14,332,785
Transmission Losses kWh:	-35,080
Distribution Losses kWh:	0
<b>Total Energy Req. kWh:</b>	<b>14,297,705</b>

TIME OF FENTS PEAK:	08/20/2019 @ H.E. 15:00
TIME OF MUNICIPAL PEAK:	08/20/2019 @ H.E. 14:00
TRANSMISSION PEAK:	September 5, 2018 15:00

COINCIDENT PEAK kW:	28,558
MUNICIPAL PEAK kW:	28,923
TRANSMISSION PEAK kW:	30,468
PJM Capacity Requirement kW:	30,052

**Napoleon Resources**

<b>AMP CT - Sched @ ATSI</b>			
Demand Charge:	\$2.678409 / kW *	12,400 kW =	\$33,212.27
Energy Charge:	\$0.090550 / kWh *	92,073 kWh =	\$8,337.17
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>92,073 kWh =</b>	<b>-\$34,937.60</b>
<b>Fremont - sched @ Fremont</b>			
Demand Charge:	\$4.340567 / kW *	8,767 kW =	\$38,054.14
Energy Charge:	\$0.022502 / kWh *	4,784,292 kWh =	\$107,657.88
Net Congestion, Losses, FTR:	\$0.000988 / kWh *		\$4,728.97
Capacity Credit:	\$2.405763 / kW *	-8,767 kW =	-\$21,091.54
Debt Service	\$4.960467 / kW	8,767 kW	\$43,488.86
Adjustment for prior month:			-\$952.43
<b>Subtotal</b>		<b>4,784,292 kWh =</b>	<b>\$171,885.88</b>
<b>AMP Hydro CSW - Sched @ PJMC</b>			
Demand Charge:	\$49.750000 / kW *	3,498 kW =	\$174,025.50
Energy Charge:	\$0.036000 / kWh *	1,652,892 kWh =	\$59,504.10
Net Congestion, Losses, FTR:	\$0.000983 / kWh *		\$1,624.67
Capacity Credit:	\$0.719826 / kW *	-3,498 kW =	-\$2,517.95
REC Credit (Estimate)	-\$0.006000 / kWh	1,652,892 kWh	-\$9,917.35
<b>Subtotal</b>		<b>1,652,892 kWh =</b>	<b>\$222,718.97</b>
<b>Meldahl Hydro - Sched @ Meldahl Bus</b>			
Demand Charge:	\$26.465317 / kW *	504 kW =	\$13,338.52
Energy Charge:	\$0.036000 / kWh *	210,296 kWh =	\$7,570.64
Net Congestion, Losses, FTR:	\$0.000147 / kWh *		\$30.89
Capacity Credit:	\$2.480000 / kW *	-504 kW =	-\$1,249.92
REC Credit (Estimate)	-\$0.006000 / kWh	210,296 kWh =	-\$1,261.77
<b>Subtotal</b>		<b>210,296 kWh =</b>	<b>\$18,428.36</b>
<b>JV6 - Sched @ ATSI</b>			
Demand Charge:	\$2.274567 / kW *	300 kW =	\$682.37
Energy Charge:		16,661 kWh	
Transmission Credit:	\$0.453500 / kW *	-300 kW =	-\$136.05
Capacity Credit:	\$0.782767 / kW *	-300 kW =	-\$234.83
<b>Subtotal</b>		<b>16,661 kWh =</b>	<b>\$311.49</b>
<b>Greenup Hydro - Sched @ Greenup Bus</b>			
Demand Charge:	\$23.566424 / kW *	330 kW =	\$7,776.92
Energy Charge:	\$0.009000 / kWh *	164,193 kWh =	\$1,477.74
Net Congestion, Losses, FTR:	\$0.000080 / kWh *		\$13.19
Capacity Credit:	\$1.998212 / kW *	-330 kW =	-\$659.41
REC Credit (Estimate)	-\$0.006000 / kWh	164,193 kWh =	-\$985.16
<b>Subtotal</b>		<b>164,193 kWh =</b>	<b>\$7,623.28</b>
<b>Prairie State - Sched @ PJMC</b>			
Demand Charge:	\$11.448770 / kW *	4,976 kW =	\$56,969.08
Energy Charge:	\$0.008208 / kWh *	3,657,440 kWh =	\$30,019.62
Net Congestion, Losses, FTR:	\$0.000995 / kWh *		\$3,638.39
Capacity Credit:	\$2.258686 / kW *	-4,976 kW =	-\$11,239.22
Debt Service	\$22.522717 / kW	4,976 kW	\$112,073.04
Transmission from PSEC to PJM/MISO, including non-Prairie State variable charges/credits	\$0.003982 / kWh	3,657,440 kWh	\$14,562.38
Board Approved Rate Levelization			-\$19,384.43
<b>Subtotal</b>		<b>3,657,440 kWh =</b>	<b>\$186,638.86</b>
<b>NYPA - Sched @ NYIS</b>			
Demand Charge:	\$6.281574 / kW *	940 kW =	\$5,904.68
Energy Charge:	\$0.014914 / kWh *	618,827 kWh =	\$9,229.31
Net Congestion, Losses, FTR:	\$0.003014 / kWh *		\$1,864.92
Capacity Credit:	\$3.050000 / kW *	-935 kW =	-\$2,851.75
Adjustment for prior month:			\$166.26
<b>Subtotal</b>		<b>618,827 kWh =</b>	<b>\$14,313.42</b>
<b>JV5 - 7X24 @ ATSI</b>			
Demand Charge:	\$10.066480 / kW *	3,088 kW =	\$31,085.29
Energy Charge:	\$0.017832 / kWh *	2,297,472 kWh =	\$40,968.29
Transmission Credit:	\$5.009673 / kW *	-3,088 kW =	-\$15,469.87
Capacity Credit:	\$2.991282 / kW *	-3,088 kW =	-\$9,237.08
Debt Service (current month)	\$17.930000 / kW	3,088 kW	\$55,367.84
<b>Subtotal</b>		<b>2,297,472 kWh =</b>	<b>\$102,714.47</b>
<b>JV5 Losses - Sched @ ATSI</b>			
Energy Charge:		33,562 kWh	
<b>Subtotal</b>		<b>33,562 kWh =</b>	<b>\$0.00</b>
<b>JV2 - Sched @ ATSI</b>			
Demand Charge:	\$2.483220 / kW *	264 kW =	\$655.57
Energy Charge:		1,298 kWh	
Transmission Credit:	\$3.120833 / kW *	-264 kW =	-\$823.90

**DETAIL INFORMATION OF POWER CHARGES August , 2019**

**Napoleon**

Capacity Credit:	\$3.099811	/ kW *	-264 kW =	-\$818.35
JV2 Project Fuel Costs not recovered through Energy Sales to Market				\$121.32
<i>Subtotal</i>			<b>1,298 kWh =</b>	<b>-\$865.36</b>
<b>AMP Solar Phase I - Sched @ ATSI</b>				
Demand Charge:			1,040 kW	
Energy Charge:	\$0.038300	/ kWh *	147,642 kWh =	\$5,654.67
Transmission Credit:				-\$2,890.30
Capacity Credit:	\$1.624298	/ kW *	-1,040 kW =	-\$1,689.27
<i>Subtotal</i>			<b>147,642 kWh =</b>	<b>\$1,075.10</b>
<b>Morgan Stanley 2015-2020 - 7x24 @ AD</b>				
Demand Charge:			3,800 kW	
Energy Charge:	\$0.062950	/ kWh *	2,827,200 kWh =	\$177,972.24
Net Congestion, Losses, FTR:	-\$0.000028	/ kWh *		-\$79.20
<i>Subtotal</i>			<b>2,827,200 kWh =</b>	<b>\$177,893.04</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
<i>Subtotal</i>			<b>0 kWh =</b>	<b>\$16,959.16</b>
<b>Northern Power Pool:</b>				
On Peak Energy Charge: (M-F HE 08-23 EDT)	\$0.040033	/ kWh *	118,628 kWh =	\$4,749.01
Off Peak Energy Charge:	\$0.017328	/ kWh *	9,826 kWh =	\$170.26
Sale of Excess Non-Pool Resources to Pool	\$0.022848	/ kWh *	-2,334,595 kWh =	-\$53,341.56
Pool Congestion Hedge				\$4,812.19
<i>Subtotal</i>	<b>\$0.019768</b>	<b>/ kWh *</b>	<b>-2,206,141 kWh =</b>	<b>-\$43,610.10</b>
Total Demand Charges:				\$425,358.92
Total Energy Charges:				\$415,790.05
Total Power Charges:			<b>14,297,705 kWh</b>	<b>\$841,148.97</b>
<b>TRANSMISSION / CAPACITY / ANCILLARY SERVICES:</b>				
Demand Charge:	\$5.009672	/ kW *	30,468 kW =	\$152,634.68
Energy Charge:	\$0.000526	/ kWh *	12,000,233 kWh =	\$6,315.86
RPM (Capacity) Charges:	\$3.736200	/ kW *	30,052 kW =	\$112,280.28
<b>TRANSMISSION / CAPACITY / ANCILLARY SERVICES:</b>	<b>\$0.022602</b>	<b>/ kWh *</b>	<b>12,000,233 kWh =</b>	<b>\$271,230.82</b>
Dispatch Center Charges:	\$0.000009	/ kWh *	14,332,785 kWh =	\$130.79
<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 *	14,332,785 kWh =	\$8,313.02
<b>TOTAL OTHER CHARGES:</b>				<b>\$11,311.15</b>
<b>GRAND TOTAL POWER INVOICE:</b>				<b>\$1,123,690.94</b>

Napoleon Capacity Plan - Actual													
<b>Aug 2019</b>		ACTUAL DEMAND =		28.92	MW								
Days 31		ACTUAL ENERGY =		14,333	MWH								
	SOURCE	DEMAND MW	DEMAND MW-MO	ENERGY MWH	LOAD FACTOR	DEMAND RATE \$/KW	ENERGY RATE \$/MWH	CONGESTION/L OSSES \$/MWH	CAPACITY CREDIT RATE \$/KW	TRANSMISSION CREDIT RATE \$/KW	TOTAL CHARGES	EFFECTIVE RATE \$/MWH	% OF DOLLARS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(16)	(17)	(18)
1	NYPA - Ohio	0.94	0.94	619	88%	\$6.46	\$14.91	\$3.01	-\$3.03		\$14,313	\$23.13	1.3%
2	JV5	3.09	3.09	2,297	100%	\$28.00	\$17.83		-\$2.99	-\$5.01	\$102,714	\$44.71	9.2%
3	JV5 Losses	0.00	0.00	34	0%						\$0	\$0.00	0.0%
4	JV6	0.30	0.30	17	7%	\$2.27			-\$0.45	-\$0.78	\$311	\$18.70	0.0%
5	AMP-Hydro	3.50	3.50	1,653	64%	\$49.75	\$30.00	\$0.98	-\$0.72		\$222,719	\$134.75	19.9%
6	Meldahl	0.50	0.50	210	56%	\$26.47	\$30.00	\$0.15	-\$2.48		\$18,428	\$87.63	1.6%
7	Greenup	0.33	0.33	164	67%	\$23.57	\$3.00	\$0.08	-\$2.00		\$7,623	\$46.43	0.7%
8	AFEC	8.77	8.77	4,784	73%	\$9.30	\$22.30	\$0.99	-\$2.41		\$171,886	\$35.93	15.3%
9	Prairie State	4.98	4.98	3,657	99%	\$33.97	\$6.89	\$0.99	-\$2.26		\$186,639	\$51.03	16.7%
10	AMP Solar Phase I	1.04	1.04	148	19%		\$38.30		-\$1.62	-\$2.78	\$1,075	\$7.28	0.1%
11	Morgan Stanley 2015-2020 7x24	3.80	3.80	2,827	100%		\$62.95	-\$0.03			\$177,893	\$62.92	15.9%
12	AMPCT	12.40	12.40	92	1%	\$2.68	\$90.55		-\$2.66	-\$3.51	-\$34,938	-\$379.46	-3.1%
13	JV2	0.26	0.26	1	1%	\$2.48	\$93.50		-\$3.10	-\$3.12	-\$865		-0.1%
14	NPP Pool Purchases	0.00	0.00	128	0%		\$75.76				\$9,731	\$75.76	0.9%
15	NPP Pool Sales	0.00		-2,335	0%		\$22.85				-\$53,342	\$22.85	-4.8%
	<b>POWER TOTAL</b>	<b>39.91</b>	<b>39.91</b>	<b>14,298</b>	<b>48%</b>	<b>\$572,800</b>	<b>\$386,964</b>	<b>\$0.83</b>	<b>-\$84,448</b>	<b>-\$62,949</b>	<b>\$824,190</b>	<b>\$57.64</b>	<b>73.5%</b>
16	Energy Efficiency			0							\$16,959		1.5%
17	Installed Capacity	30.05	30.05			\$3.74					\$112,280	\$7.83	10.0%
18	Transmission	30.47	30.47	12,000		\$5.01	\$0.53				\$158,951	\$11.09	14.2%
19	Service Fee B			14,333			\$0.58				\$8,313	\$0.58	0.7%
20	Dispatch Charge			14,333			\$0.01				\$131	\$0.01	0.0%
	<b>OTHER TOTAL</b>					<b>\$264,915</b>	<b>\$31,719</b>				<b>\$296,634</b>	<b>\$20.70</b>	<b>26.5%</b>
<b>GRAND TOTAL PURCHASED</b>				<b>14,298</b>							<b>\$1,120,824</b>		
Delivered to members		<b>28.923</b>	<b>28.923</b>	<b>14,333</b>	<b>67%</b>						<b>\$1,120,824</b>	<b>\$78.20</b>	<b>100.0%</b>
	2019 Forecast	DEMAND		ENERGY	L.F.						TOTAL \$	\$/MWh	Avg Temp
	2018 Actual	30.65		14,938	66%						\$1,174,154	\$78.60	71.5
	2017 Actual	31.93		15,675	66%						\$1,272,249	\$81.16	75.0
		29.47		14,364	66%						\$1,229,854	\$85.62	68.7
											Actual Temp		73.4

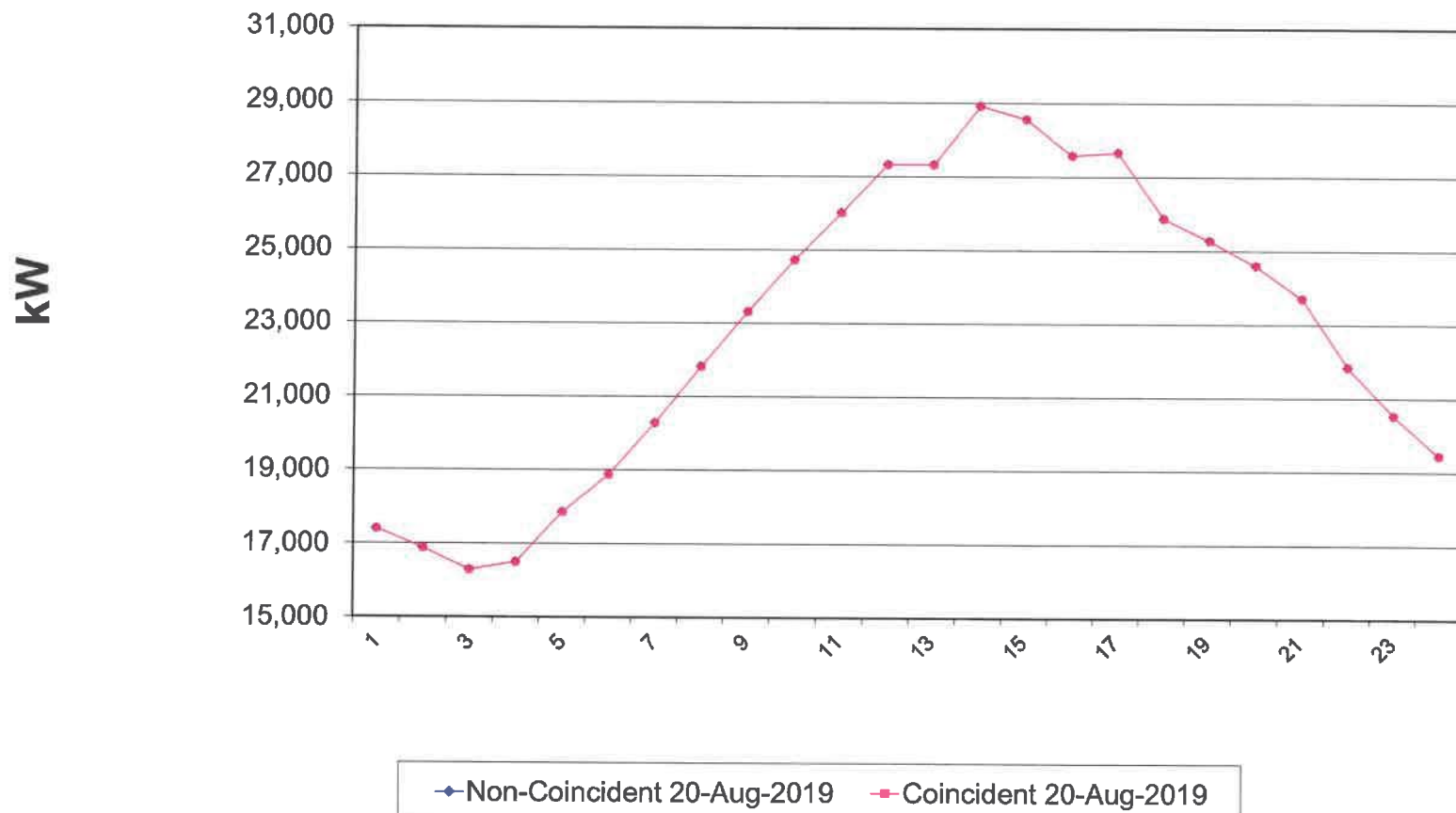


NAPOLEON

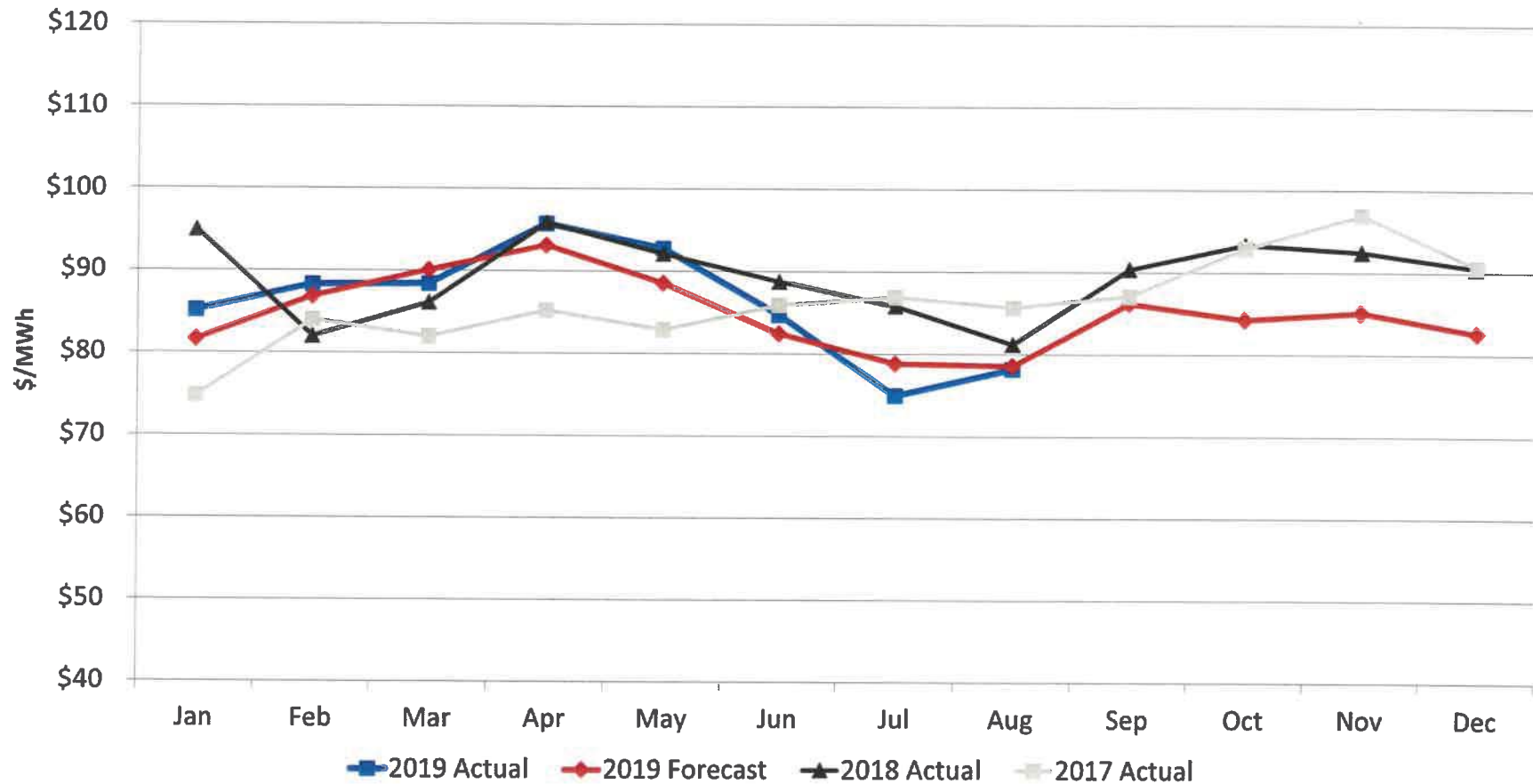
	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Date	8/1/2019	8/2/2019	8/3/2019	8/4/2019	8/5/2019	8/6/2019	8/7/2019	8/8/2019	8/9/2019	8/10/2019	8/11/2019	8/12/2019	8/13/2019	8/14/2019	8/15/2019
Hour															
100	16,713	16,085	14,065	14,270	16,493	18,931	17,432	17,739	17,060	14,147	14,293	16,690	16,835	16,915	16,909
200	16,110	15,770	13,634	13,866	16,052	18,436	16,787	17,166	16,516	13,652	13,696	16,359	16,501	16,463	16,355
300	15,302	15,257	13,255	13,379	15,573	17,837	16,104	16,617	15,832	13,283	13,228	16,143	16,144	15,907	15,930
400	15,479	15,514	13,138	13,225	15,672	17,914	16,330	16,706	15,720	13,211	13,095	16,289	16,261	15,814	16,122
500	16,199	15,950	13,157	13,217	16,447	18,508	17,084	17,451	16,414	13,405	13,058	17,049	17,348	16,531	16,725
600	17,039	16,682	13,369	13,038	17,875	19,549	17,949	18,366	17,162	13,597	13,074	18,420	18,510	17,314	17,654
700	18,080	17,535	13,821	13,240	18,926	20,869	18,977	19,622	17,973	13,860	13,262	19,882	19,875	18,314	18,746
800	19,612	18,830	15,081	14,496	20,781	22,587	20,538	21,165	19,095	14,781	14,202	20,854	21,020	19,526	20,052
900	20,502	19,902	16,229	15,995	22,161	23,982	21,746	22,439	20,292	15,743	15,144	21,414	21,834	20,338	21,048
1000	21,243	20,423	17,200	17,259	23,660	25,153	22,537	23,531	21,348	16,653	16,539	21,691	22,619	21,515	22,614
1100	21,739	21,221	18,138	18,526	24,955	26,272	23,650	24,738	22,038	17,444	17,896	22,295	22,994	22,998	23,820
1200	22,467	21,927	18,766	19,519	26,062	26,045	24,946	25,608	22,596	18,040	18,529	24,008	23,229	23,999	25,044
1300	23,324	22,613	19,369	20,508	27,067	26,032	25,637	26,242	22,932	18,626	19,690	25,497	23,498	24,827	25,960
1400	23,513	22,973	19,784	20,974	27,635	25,912	26,146	26,524	23,176	18,997	20,565	26,152	23,220	25,403	26,234
1500	23,767	22,537	20,213	21,498	27,206	24,178	26,081	26,312	23,167	19,411	21,729	25,783	23,306	25,651	26,187
1600	23,608	22,218	20,738	22,091	27,404	24,137	25,928	25,974	22,972	20,058	22,203	24,330	23,316	25,666	26,127
1700	23,343	21,863	21,096	22,514	27,447	23,808	25,986	25,636	22,638	19,981	22,431	23,584	22,967	25,544	25,642
1800	23,343	21,508	21,150	22,763	27,237	23,834	25,939	25,187	22,356	19,485	21,690	22,813	22,839	24,384	24,547
1900	22,552	20,961	20,480	22,154	26,327	23,578	25,230	24,045	21,444	19,204	21,001	22,102	22,631	23,517	23,550
2000	21,607	20,003	19,601	21,276	25,196	22,575	24,131	22,798	20,319	18,501	20,501	21,486	22,428	22,417	22,529
2100	20,865	19,413	19,073	20,757	24,384	22,021	23,272	22,064	19,840	18,191	20,090	20,627	22,083	21,341	21,847
2200	19,414	17,920	17,814	19,628	22,676	20,543	21,352	20,583	18,205	17,224	19,307	19,500	20,655	20,057	20,216
2300	18,246	16,118	16,549	18,995	21,104	19,398	19,956	19,440	16,222	16,205	18,485	18,708	19,614	18,990	19,019
2400	17,137	14,823	15,390	17,848	19,874	18,308	18,775	18,165	14,954	15,175	17,498	17,684	18,373	17,878	17,728
Total	481,204	458,046	411,110	431,036	538,194	530,407	522,513	524,118	470,271	398,874	421,206	499,360	498,100	501,309	510,605

	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date	8/16/2019	8/17/2019	8/18/2019	8/19/2019	8/20/2019	8/21/2019	8/22/2019	8/23/2019	8/24/2019	8/25/2019	8/26/2019	8/27/2019	8/28/2019	8/29/2019	8/30/2019	8/31/2019
Hour																
100	16,432	15,904	15,017	16,056	17,399	18,339	18,276	16,002	12,941	11,907	14,093	15,107	16,171	15,381	17,026	12,945
200	15,823	15,385	14,361	15,894	16,876	18,120	17,908	15,729	12,658	11,670	13,994	15,277	15,721	15,212	16,571	12,498
300	15,674	14,937	13,973	15,329	16,290	17,400	17,201	15,108	12,086	11,451	13,938	14,774	15,102	14,681	15,867	12,081
400	15,882	14,873	13,811	15,535	16,505	17,259	17,349	15,158	12,176	11,410	14,309	15,027	15,157	14,954	15,886	12,093
500	16,616	15,086	13,752	16,699	17,855	18,375	18,153	16,138	12,565	11,459	15,147	16,247	16,205	15,840	16,831	12,152
600	17,175	15,423	13,949	18,207	18,879	19,693	19,344	17,277	13,005	11,672	16,534	17,743	17,365	16,982	18,014	12,278
700	18,028	15,941	14,360	19,391	20,281	20,777	20,005	18,112	13,401	11,926	17,498	19,109	18,250	17,883	18,985	12,498
800	19,281	17,170	15,652	20,351	21,819	22,351	20,393	18,835	14,505	12,693	18,037	20,050	18,999	18,791	19,752	13,310
900	20,400	18,254	16,061	20,951	23,316	23,556	20,842	19,788	15,034	13,374	18,619	20,602	19,967	19,185	20,535	14,059
1000	20,948	18,759	16,254	21,518	24,727	24,707	21,384	20,004	15,452	14,007	19,065	20,938	20,507	20,035	20,917	14,633
1100	21,305	19,932	17,496	22,692	26,012	25,631	22,124	20,354	15,779	14,684	19,298	21,480	20,974	20,640	21,327	14,881
1200	22,338	20,609	19,241	23,941	27,322	26,787	22,406	20,819	15,969	15,362	19,470	22,031	21,259	21,256	22,168	15,027
1300	23,147	21,489	20,682	23,419	27,323	27,560	22,101	21,161	15,834	15,678	19,379	22,475	21,474	21,492	22,649	15,265
1400	23,637	21,347	20,510	25,788	28,923	27,800	22,131	20,908	15,581	15,716	19,255	22,724	21,564	21,635	22,694	15,412
1500	23,625	21,561	19,178	25,696	28,558	27,057	22,321	20,287	15,416	16,158	19,047	22,878	21,239	21,560	22,141	15,107
1600	23,691	21,496	18,720	25,911	27,576	27,987	22,354	19,918	15,486	16,350	18,649	23,051	21,158	22,172	21,564	14,892
1700	23,225	21,277	19,443	26,026	27,662	28,220	22,095	19,461	15,793	16,434	18,408	22,918	20,876	22,231	20,788	14,736
1800	22,574	20,865	20,539	27,221	25,873	26,861	21,692	18,921	15,860	16,513	18,256	22,564	20,399	21,902	19,856	14,487
1900	21,534	20,257	20,603	25,060	25,271	25,828	20,994	18,005	15,029	16,333	18,013	21,914	19,688	21,510	18,823	14,104
2000	21,014	19,972	20,924	24,316	24,600	25,053	20,742	17,364	14,837	16,647	18,208	21,456	19,736	21,352	18,877	14,361
2100	20,561	19,471	19,058	23,510	23,704	24,094	20,058	17,200	14,696	16,227	17,570	20,478	18,808	20,652	18,148	14,123
2200	19,213	18,330	17,771	21,570	21,845	22,317	18,646	16,074	13,878	15,401	16,440	18,984	17,510	19,357	16,698	13,725
2300	17,963	17,201	17,298	20,174	20,539	21,039	17,649	14,564	13,200	15,111	16,052	18,076	16,680	18,781	14,983	12,864
2400	16,843	15,805	16,589	18,798	19,457	19,367	16,813	13,490	12,417	14,471	15,477	17,048	16,034	17,801	13,569	12,129
Total	476,929	425,539	415,242	514,053	548,612	556,178	482,981	430,677	343,598	342,654	414,756 Maximum	472,951 28,923	450,843 Minimum	461,285 11,410	454,669 Grand Total	329,660 14,332,785

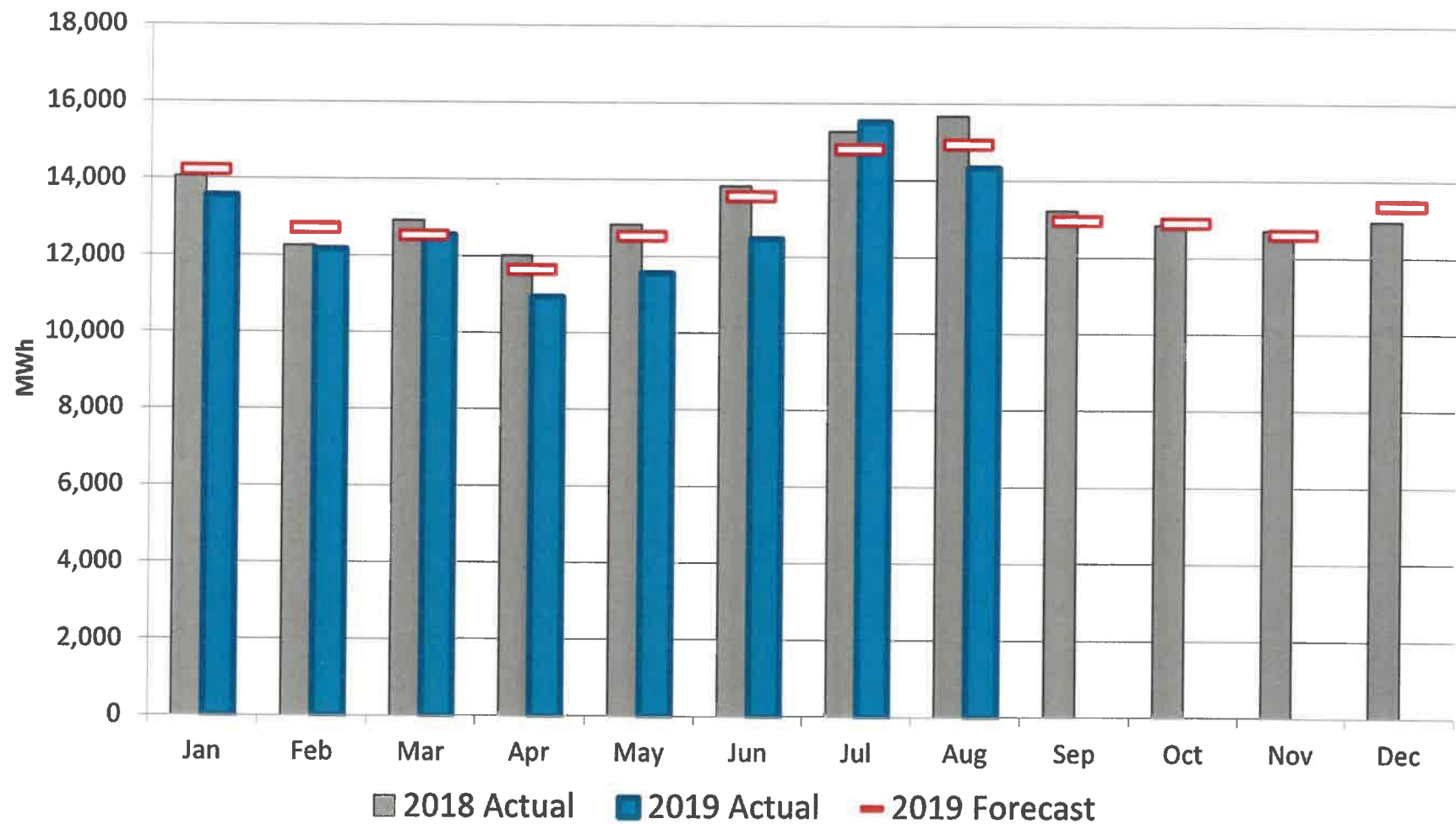
## Napoleon Peak Day Load Curve



## Napoleon 2019 Monthly Rates



## Napoleon 2019 Monthly Energy Usage





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

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

**Rate Comparisons to Prior Month and Prior Year for Same Period**

	Service Usage	Service Units	Current October 2019 Rate	Prior Month September 2019 Rate	Prior Year October 2018 Rate		Service Usage	Service Units	Current October 2019 Rate	Prior Month September 2019 Rate	Prior Year October 2018 Rate
<b>Customer Type</b>											
<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	\$143.85
Power Supply Demand Charge											
PSCAF - Monthly Factor	978	kWh	\$7.77	\$12.27	\$14.19	1,976	kWh	\$15.69	\$24.80	\$28.67	\$28.67
kWH Tax- Level 1	978	kWh	\$4.55	\$4.55	\$4.55	1,976	kWh	\$9.19	\$9.19	\$9.19	\$9.19
kWH Tax- Level 2											
kWH Tax- Level 3											
<b>Total Electric</b>			<b>\$110.45</b>	<b>\$114.95</b>	<b>\$116.87</b>				<b>\$208.12</b>	<b>\$217.23</b>	<b>\$221.10</b>
Water	6	CCF	\$55.35	\$55.35	\$50.55	11	CCF	\$91.89	\$91.89	\$83.14	\$83.14
Sewer (w/Stm.Sew. & Lat.)	6	CCF	\$74.13	\$74.13	\$70.89	11	CCF	\$104.83	\$104.83	\$98.89	\$98.89
Storm Water (Rate/ERU)			\$9.50	\$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	\$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>\$267.43</b>	<b>\$271.93</b>	<b>\$265.81</b>				<b>\$432.34</b>	<b>\$441.45</b>	<b>\$430.63</b>
Verification Totals->			\$267.43	\$271.93	\$265.81			\$432.34	\$441.45	\$430.63	\$430.63
				<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>	<i>Cr.Yr to Pr.Yr</i>
Dollar Chg.to Prior Periods				-\$4.50	\$1.62					-\$9.11	\$1.71
% Inc/Dec(-) to Prior Periods				-1.65%	0.61%					-2.06%	0.40%
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Cost/kWH - Electric	978	kWh	\$0.11293	\$0.11754	\$0.11950	1,976	kWh	\$0.10532	\$0.10993	\$0.11189	\$0.11189
% Inc/Dec(-) to Prior Periods				-3.92%	-5.50%				-4.19%	-5.87%	-5.87%
Cost/CCF - Water	6	CCF	\$9.22500	\$9.22500	\$8.42500	11	CCF	\$8.35364	\$8.35364	\$7.55818	\$7.55818
Cost/GALLONS - Water	4,488	GAL	\$0.01233	\$0.01233	\$0.01126	8,229	GAL	\$0.01117	\$0.01117	\$0.01010	\$0.01010
% Inc/Dec(-) to Prior Periods				0.00%	9.50%				0.00%	10.52%	10.52%
Cost/CCF - Sewer	6	CCF	\$12.35500	\$12.35500	\$11.81500	11	CCF	\$9.53000	\$9.53000	\$8.99000	\$8.99000
Cost/GALLON - Sewer	4,488	GAL	\$0.01652	\$0.01652	\$0.01580	8,229	GAL	\$0.01274	\$0.01274	\$0.01202	\$0.01202
% Inc/Dec(-) to Prior Periods				0.00%	4.57%				0.00%	6.01%	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 OCTOBER BILLING - EL**

**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>
	Service	Service	October	September	October	Service	Service	October	September	October	
<b>Customer Type</b>	<b>Usage</b>	<b>Units</b>	<b>2019 Rate</b>	<b>2019 Rate</b>	<b>2018 Rate</b>	<b>Usage</b>	<b>Units</b>	<b>2019 Rate</b>	<b>2019 Rate</b>	<b>2018 Rate</b>	
<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	\$55.90	\$88.35	\$102.15			\$6,533.06	\$10,326.18	\$11,938.87	
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>\$858.28</b>	<b>\$890.73</b>	<b>\$904.53</b>			<b>\$74,767.79</b>	<b>\$78,560.91</b>	<b>\$80,173.60</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>\$1,255.14</b>	<b>\$1,287.59</b>	<b>\$1,267.24</b>			<b>\$79,136.09</b>	<b>\$82,929.21</b>	<b>\$84,162.00</b>	
<i>Verification Totals-&gt;</i>			\$1,255.14	\$1,287.59	\$1,267.24			\$79,136.09	\$82,929.21	\$84,162.00	
				<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				-\$32.45	-\$12.10				-\$3,793.12	-\$5,025.91	
% Inc/Dec(-) to Prior Periods				-2.52%	-0.95%				-4.57%	-5.97%	
=====											
Cost/kWh - Electric	7,040	kWh	\$0.12191	\$0.12652	\$0.12848	866,108	kWh	\$0.08633	\$0.09071	\$0.09257	
% Inc/Dec(-) to Prior Periods				-3.64%	-5.11%				-4.83%	-6.74%	
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											



**BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - OCTOBER, 2019**

#REF!

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

Class and/or Schedule	Rate Code	Sep-19		Billed kVa of Demand	Cost / kWh For Month	Cost / kWh Prior 12 Mo Average		Oct-18		Cost / kWh For Month	Nov-18		Cost / kWh For Month
		# of Bills	(kWh Usage)					# of Bills	(kWh Usage)		# of Bills	(kWh Usage)	
Residential (Dom-In)	E1	3,359	3,350,534	\$393,425.78	\$0.1174	\$0.1259	3,337	3,092,403	\$370,556.00	\$0.1198	3,334	2,028,219	\$251,008.17
Residential (Dom-In) w/Ecosmart	E1E	7	5,542	\$659.37	\$0.1190	\$0.1287	8	6,413	\$774.97	\$0.1208	8	4,070	\$511.40
Residential (Dom-In - All Electric)	E2	630	510,776	\$60,676.95	\$0.1188	\$0.1245	606	477,141	\$57,716.13	\$0.1210	608	341,256	\$42,496.39
Res. (Dom-In - All Elec.) w/Ecosmart	E2E	1	859	\$101.69	\$0.1184	\$0.1271	1	882	\$105.98	\$0.1202	1	655	\$80.58
<b>Total Residential (Domestic)</b>		<b>3,997</b>	<b>3,867,711</b>	<b>\$454,863.79</b>	<b>\$0.1176</b>	<b>\$0.1257</b>	<b>3,952</b>	<b>3,576,839</b>	<b>\$429,153.08</b>	<b>\$0.1200</b>	<b>3,951</b>	<b>2,374,200</b>	<b>\$294,096.54</b>
Residential (Rural-Out)	ER1	783	957,566	\$118,989.72	\$0.1243	\$0.1320	783	876,121	\$111,314.51	\$0.1271	783	647,138	\$84,620.90
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,819	\$483.39	\$0.1266	\$0.1350	4	3,496	\$452.74	\$0.1295	4	2,519	\$338.64
Residential (Rural-Out - All Electric)	ER2	367	472,761	\$58,550.99	\$0.1238	\$0.1304	372	450,295	\$56,878.39	\$0.1263	373	341,672	\$44,238.91
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,134	\$267.77	\$0.1255	\$0.1311	2	1,978	\$253.52	\$0.1282	2	1,457	\$192.74
Residential (Rural-Out w/Dmd)	ER3	15	14,462	\$1,828.22	\$0.1264	\$0.1265	16	18,482	\$2,340.33	\$0.1266	16	19,264	\$2,441.54
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	9,737	\$1,220.01	\$0.1253	\$0.1298	9	8,778	\$1,125.87	\$0.1283	9	7,575	\$987.87
<b>Total Residential (Rural)</b>		<b>1,180</b>	<b>1,460,479</b>	<b>\$181,340.10</b>	<b>\$0.1242</b>	<b>\$0.1313</b>	<b>1,186</b>	<b>1,359,150</b>	<b>\$172,365.36</b>	<b>\$0.1268</b>	<b>1,187</b>	<b>1,019,625</b>	<b>\$132,820.60</b>
Commercial (1 Ph-In - No Dmd)	EC2	73	30,579	\$4,830.90	\$0.1580	\$0.1610	74	38,826	\$5,982.15	\$0.1541	73	31,927	\$5,082.08
Commercial (1 Ph-Out - No Dmd)	EC2O	50	13,407	\$2,332.17	\$0.1740	\$0.1910	48	7,432	\$1,551.72	\$0.2088	48	7,158	\$1,519.28
<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>\$0.1682</b>	<b>122</b>	<b>46,258</b>	<b>\$7,533.87</b>	<b>\$0.1629</b>	<b>121</b>	<b>39,085</b>	<b>\$6,601.36</b>
Commercial (1 Ph-In - w/Demand)	EC1	259	434,957	\$61,778.60	\$0.1420	\$0.1525	262	448,290	\$63,411.55	\$0.1415	260	333,955	\$50,414.30
Commercial (1 Ph-Out - w/Demand)	EC1O	24	50,125	\$6,798.92	\$0.1356	\$0.1414	25	50,388	\$6,718.61	\$0.1333	25	43,706	\$5,912.53
<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>\$0.1512</b>	<b>287</b>	<b>498,678</b>	<b>\$70,130.16</b>	<b>\$0.1406</b>	<b>285</b>	<b>377,661</b>	<b>\$56,326.83</b>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	40	\$41.17	\$1.0293	\$0.1489	2	40	\$41.25	\$1.0313	2	80	\$46.53
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>40</b>	<b>\$41.17</b>	<b>\$1.0293</b>	<b>\$0.1489</b>	<b>2</b>	<b>40</b>	<b>\$41.25</b>	<b>\$1.0313</b>	<b>2</b>	<b>80</b>	<b>\$46.53</b>
Commercial (3 Ph-In - w/Demand)	EC3	214	2,176,647	\$275,955.59	\$0.1268	\$0.1353	207	1,898,554	\$247,165.96	\$0.1302	209	1,702,362	\$223,994.72
Commercial (3 Ph-Out - w/Demand)	EC3O	37	302,688	\$39,850.84	\$0.1317	\$0.1360	37	303,888	\$39,846.47	\$0.1311	37	298,204	\$41,023.08
Commercial (3 Ph-Out - w/Dmd.&Sub-St.)	E3SO	3	119,120	\$14,130.30	\$0.1186	\$0.1262	3	122,920	\$14,951.02	\$0.1216	3	105,920	\$13,083.62
Commercial (3 Ph-In - w/Demand, No Ta)	EC3T	1	7,360	\$907.68	\$0.1233	\$0.1308	1	8,040	\$998.75	\$0.1242	1	7,320	\$925.93
<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>\$0.1350</b>	<b>248</b>	<b>2,333,402</b>	<b>\$302,962.20</b>	<b>\$0.1298</b>	<b>250</b>	<b>2,113,806</b>	<b>\$279,027.35</b>
Large Power (In - w/Dmd & Rct)	EL1	15	2,252,991	\$222,017.11	\$0.0985	\$0.1081	20	2,560,069	\$266,286.49	\$0.1040	20	2,330,080	\$248,092.31
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	848,595	\$89,830.95	\$0.1056	\$0.1032	3	1,114,476	\$107,148.68	\$0.0961	3	1,093,394	\$107,573.02
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	432,000	\$46,652.40	\$0.1080	\$0.1113	1	488,400	\$51,626.25	\$0.1057	1	471,600	\$51,894.73
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	82,829	\$14,994.63	\$0.1810	\$0.1648	2	79,122	\$14,827.66	\$0.1874	2	82,736	\$14,921.36
<b>Total Large Power</b>		<b>21</b>	<b>3,616,415</b>	<b>\$373,295.09</b>	<b>\$0.1032</b>	<b>\$0.1083</b>	<b>26</b>	<b>4,242,067</b>	<b>\$439,889.08</b>	<b>\$0.1037</b>	<b>26</b>	<b>3,977,810</b>	<b>\$422,481.42</b>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	949,284	\$85,931.28	\$0.0905	\$0.0981	1	1,112,529	\$101,948.30	\$0.0916	1	1,024,215	\$94,884.34
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	813,670	\$78,886.15	\$0.0970	\$0.1013	1	920,929	\$88,265.27	\$0.0958	1	850,818	\$80,494.14
<b>Total Industrial</b>		<b>2</b>	<b>1,762,954</b>	<b>\$164,817.43</b>	<b>\$0.0935</b>	<b>\$0.0995</b>	<b>2</b>	<b>2,033,458</b>	<b>\$190,213.57</b>	<b>\$0.0935</b>	<b>2</b>	<b>1,875,033</b>	<b>\$175,378.48</b>
Interdepartmental (In - No Dmd)	ED1	10	46,090	\$5,885.60	\$0.1277	\$0.1332	10	27,285	\$3,867.27	\$0.1417	10	24,460	\$3,439.21
Interdepartmental (Out - w/Dmd)	ED2O	2	629	\$105.41	\$0.1676	\$0.2014	2	387	\$74.91	\$0.1936	2	332	\$67.85
Interdepartmental (In - w/Dmd)	ED2	27	23,322	\$3,340.49	\$0.1432	\$0.1431	28	20,986	\$3,091.87	\$0.1473	28	24,160	\$3,519.12
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	139,132	\$17,754.02	\$0.1276	\$0.1302	10	166,786	\$20,894.12	\$0.1253	10	140,597	\$17,423.92
Interdepartmental (Street Lights)	EDSL	6	21,490	\$2,070.47	\$0.0963	\$0.0950	7	63,071	\$5,866.74	\$0.0930	7	63,071	\$5,867.80
Interdepartmental (Traffic Signals)	EDTS	8	1,410	\$130.39	\$0.0925	\$0.0925	8	1,535	\$141.91	\$0.0924	8	1,563	\$144.53
Generators (JV2 Power Cost Only)	GJV2	1	16,041	\$374.08	\$0.0233	\$0.0000	1	14,090	\$382.54	\$0.0271	1	15,181	\$404.57
Generators (JV5 Power Cost Only)	GJV5	0	0	\$0.00	\$0.0000	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00
<b>Total Interdepartmental</b>		<b>64</b>	<b>248,114</b>	<b>\$29,660.46</b>	<b>\$0.1195</b>	<b>\$0.1227</b>	<b>66</b>	<b>294,140</b>	<b>\$34,319.36</b>	<b>\$0.1167</b>	<b>66</b>	<b>269,364</b>	<b>\$30,867.00</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>\$0.1202</b>	<b>5,891</b>	<b>14,384,032</b>	<b>\$1,646,607.93</b>	<b>\$0.1145</b>	<b>5,890</b>	<b>12,046,664</b>	<b>\$1,397,646.11</b>
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	\$0.0000	14	0	\$13.43	\$0.0000	14	0	\$13.43
Street Lights (Out)	SLOO	2	0	\$1.92	\$0.0000	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.91
<b>Total Street Light Only</b>		<b>16</b>	<b>0</b>	<b>\$15.36</b>	<b>\$0.0000</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>\$15.34</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>\$0.1202</b>	<b>5,907</b>	<b>14,384,032</b>	<b>\$1,646,623.28</b>	<b>\$0.1145</b>	<b>5,906</b>	<b>12,046,664</b>	<b>\$1,397,661.45</b>

<b>BILLING SUMMARY AND COST</b>																	
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2019 - OCTOBER BILLING WITH AUGUST 2019 A																	
Class and/or	Rate	Dec-18	Dec-18	Dec-18	Cost / kWh	Jan-19	Jan-19	Jan-19	Cost / kWh	Feb-19	Feb-19	Feb-19	Cost / kWh	Mar-19	Mar-19	Mar-19	Cost / kWh
Schedule	Code	Bills	(kWh Usage)	Billed	For Month	Bills	(kWh Usage)	Billed	For Month	Bills	(kWh Usage)	Billed	For Month	Bills	(kWh Usage)	Billed	For Month
Residential (Dom-In)	E1	3,338	1,889,216	\$239,798.19	\$0.1269	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
Residential (Dom-In) w/Ecosmart	E1E	8	3,498	\$454.89	\$0.1300	8	3,404	\$459.27	\$0.1349	8	3,681	\$492.96	\$0.1339	8	3,762	\$491.53	\$0.1307
Residential (Dom-In - All Electric)	E2	607	462,715	\$57,459.73	\$0.1242	608	614,990	\$77,936.27	\$0.1267	610	676,299	\$85,395.38	\$0.1263	610	833,025	\$101,831.08	\$0.1222
Res (Dom-In - All Elec.) w/Ecosmart	E2E	1	488	\$62.77	\$0.1286	1	585	\$76.68	\$0.1311	1	480	\$64.01	\$0.1334	1	526	\$68.02	\$0.1293
<b>Total Residential (Domestic)</b>		<b>3,954</b>	<b>2,355,917</b>	<b>\$297,775.58</b>	<b>\$0.1264</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>
Residential (Rural-Out)	ER1	777	708,091	\$93,471.61	\$0.1320	774	786,974	\$106,504.33	\$0.1353	777	887,650	\$119,215.41	\$0.1343	777	961,894	\$125,641.90	\$0.1306
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,889	\$389.65	\$0.1349	4	3,143	\$434.51	\$0.1382	4	3,880	\$527.26	\$0.1359	4	3,702	\$493.87	\$0.1334
Residential (Rural-Out - All Electric)	ER2	372	423,283	\$54,944.35	\$0.1298	371	481,455	\$64,120.63	\$0.1332	371	534,467	\$70,803.11	\$0.1325	371	609,784	\$78,413.48	\$0.1286
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,084	\$272.23	\$0.1306	2	2,654	\$353.13	\$0.1331	2	2,987	\$395.11	\$0.1323	2	3,344	\$429.97	\$0.1286
Residential (Rural-Out w/Dmd)	ER3	16	74,328	\$9,129.46	\$0.1228	16	157,138	\$19,780.75	\$0.1259	15	81,165	\$10,304.66	\$0.1270	15	48,348	\$6,061.31	\$0.1254
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	26,753	\$3,321.60	\$0.1242	9	21,723	\$2,811.78	\$0.1294	9	12,300	\$1,634.32	\$0.1329	9	11,570	\$1,508.08	\$0.1303
<b>Total Residential (Rural)</b>		<b>1,180</b>	<b>1,237,428</b>	<b>\$161,528.90</b>	<b>\$0.1305</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>
Commercial (1 Ph-In - No Dmd)	EC2	72	31,350	\$5,072.66	\$0.1618	72	33,835	\$5,516.43	\$0.1630	72	34,992	\$5,719.92	\$0.1635	72	38,814	\$6,133.79	\$0.1580
Commercial (1 Ph-Out - No Dmd)	EC2O	48	11,512	\$2,120.54	\$0.1842	50	14,955	\$2,644.10	\$0.1768	50	11,714	\$2,225.35	\$0.1900	50	14,161	\$2,522.55	\$0.1781
<b>Total Commercial (1 Ph) No Dmd</b>		<b>120</b>	<b>42,862</b>	<b>\$7,193.20</b>	<b>\$0.1678</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>
Commercial (1 Ph-In - w/Demand)	EC1	261	301,216	\$47,256.04	\$0.1569	258	287,417	\$45,278.62	\$0.1575	258	307,384	\$48,124.40	\$0.1566	258	330,566	\$49,985.17	\$0.1512
Commercial (1 Ph-Out - w/Demand)	EC1O	26	42,048	\$5,891.05	\$0.1401	24	43,614	\$6,291.91	\$0.1443	24	49,827	\$7,283.21	\$0.1462	24	46,986	\$6,633.96	\$0.1412
<b>Total Commercial (1 Ph) w/Demand</b>		<b>287</b>	<b>343,264</b>	<b>\$53,147.09</b>	<b>\$0.1548</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>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	3,360	\$486.07	\$0.1447	2	18,800	\$2,635.31	\$0.1402	2	15,080	\$2,121.23	\$0.1407	2	160	\$57.71	\$0.3607
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>3,360</b>	<b>\$486.07</b>	<b>\$0.1447</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>
Commercial (3 Ph-In - w/Demand)	EC3	207	1,489,381	\$201,812.93	\$0.1355	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
Commercial (3 Ph-Out - w/Demand)	EC3O	37	478,436	\$61,911.19	\$0.1294	37	419,781	\$56,966.14	\$0.1357	37	346,175	\$47,574.03	\$0.1374	38	303,214	\$40,961.20	\$0.1351
Commercial (3 Ph-Out - w/Dmd.&Sub-St.)	E3SO	3	93,080	\$11,597.88	\$0.1246	3	95,160	\$12,496.97	\$0.1313	3	97,600	\$12,627.24	\$0.1294	3	114,920	\$14,544.21	\$0.1266
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	4,040	\$577.48	\$0.1429	1	1,680	\$235.69	\$0.1403	1	1,960	\$267.70	\$0.1366	1	1,880	\$253.74	\$0.1350
<b>Total Commercial (3 Ph) w/Demand</b>		<b>248</b>	<b>2,064,937</b>	<b>\$275,899.48</b>	<b>\$0.1336</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>
Large Power (In - w/Dmd & Rct)	EL1	20	2,018,869	\$221,370.58	\$0.1097	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
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	1,116,708	\$108,755.82	\$0.0974	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
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	514,800	\$54,289.13	\$0.1055	1	469,200	\$52,762.88	\$0.1125	1	382,800	\$46,480.47	\$0.1214	1	488,400	\$52,538.17	\$0.1076
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	67,570	\$9,376.88	\$0.1388	2	58,800	\$6,223.37	\$0.1058	2	61,200	\$6,516.36	\$0.1065	2	67,200	\$6,824.48	\$0.1016
<b>Total Large Power</b>		<b>26</b>	<b>3,717,947</b>	<b>\$393,792.41</b>	<b>\$0.1059</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>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	1,028,639	\$99,197.67	\$0.0964	1	979,077	\$99,325.81	\$0.1014	1	756,625	\$80,906.51	\$0.1069	1	953,746	\$93,976.56	\$0.0985
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	860,021	\$83,657.45	\$0.0973	1	759,385	\$79,525.88	\$0.1047	1	709,545	\$75,871.03	\$0.1069	1	679,242	\$70,650.12	\$0.1040
<b>Total Industrial</b>		<b>2</b>	<b>1,888,660</b>	<b>\$182,855.12</b>	<b>\$0.0968</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>
Interdepartmental (In - No Dmd)	ED1	9	30,855	\$4,238.59	\$0.1374	9	30,783	\$4,036.98	\$0.1311	10	36,732	\$4,838.55	\$0.1317	9	41,855	\$5,271.19	\$0.1259
Interdepartmental (Out - w/Dmd)	ED2O	2	263	\$59.43	\$0.2260	2	251	\$58.94	\$0.2348	2	289	\$64.23	\$0.2222	2	246	\$57.53	\$0.2339
Interdepartmental (In - w/Dmd)	ED2	27	50,475	\$7,088.03	\$0.1404	29	66,602	\$9,567.47	\$0.1437	29	75,208	\$10,762.28	\$0.1431	27	82,014	\$11,431.90	\$0.1394
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	144,770	\$18,717.77	\$0.1293	10	147,035	\$19,433.31	\$0.1322	10	152,446	\$20,037.67	\$0.1314	10	205,686	\$26,332.92	\$0.1280
Interdepartmental (Street Lights)	EDSL	5	14,659	\$1,417.65	\$0.0967	5	14,608	\$1,408.20	\$0.0964	5	18,020	\$1,729.62	\$0.0960	5	14,608	\$1,416.67	\$0.0970
Interdepartmental (Traffic Signals)	EDTS	8	1,746	\$161.41	\$0.0924	8	1,606	\$148.50	\$0.0925	8	1,749	\$161.72	\$0.0925	8	1,474	\$136.29	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	18,406	\$642.92	\$0.0349	1	19,321	\$700.19	\$0.0362	1	19,808	\$584.93	\$0.0295	1	21,704	\$603.15	\$0.0278
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>62</b>	<b>261,174</b>	<b>\$32,325.80</b>	<b>\$0.1238</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>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,881</b>	<b>11,915,549</b>	<b>\$1,405,003.65</b>	<b>\$0.1179</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>
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	14	0	\$13.43	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.43	\$0.0000
Street Lights (Out)	SLOO	2	0	\$1.91	\$0.0000	2	0	\$1.91	\$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>\$15.35</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>\$15.36</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>5,897</b>	<b>11,915,549</b>	<b>\$1,405,019.00</b>	<b>\$0.1179</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>BILLING SUMMARY AND COMPARISON</b>																	
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2019 - OCTOBER BILLING WITH AUGUST 2019 A																	
Class and/or Schedule	Rate Code	Apr-19 # of Bills	Apr-19 (kWh Usage)	Apr-19 Billed	Cost / kWh For Month	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
Residential (Dom-In)	E1	3,342	2,035,692	\$257,277.91	\$0.1264	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
Residential (Dom-In) w/Ecosmart	E1E	8	3,079	\$406.83	\$0.1321	8	3,052	\$401.71	\$0.1316	8	2,976	\$403.19	\$0.1355	7	3,714	\$490.94	\$0.1322
Residential (Dom-In - All Electric)	E2	620	672,647	\$82,084.80	\$0.1220	621	557,529	\$68,338.87	\$0.1226	629	394,726	\$50,889.72	\$0.1289	628	344,748	\$45,441.85	\$0.1318
Res. (Dom-In - All Elec.) w/Ecosmart	E2E	1	508	\$65.20	\$0.1283	1	457	\$58.97	\$0.1290	1	458	\$60.66	\$0.1324	1	558	\$73.44	\$0.1316
<b>Total Residential (Domestic)</b>		<b>3,971</b>	<b>2,711,926</b>	<b>\$339,834.74</b>	<b>\$0.1253</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>
Residential (Rural-Out)	ER1	776	794,190	\$104,015.97	\$0.1310	776	699,983	\$92,162.85	\$0.1317	778	617,058	\$84,339.73	\$0.1367	786	641,759	\$88,459.44	\$0.1378
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,058	\$410.74	\$0.1343	4	2,544	\$346.81	\$0.1363	4	2,319	\$327.68	\$0.1413	4	2,594	\$365.77	\$0.1410
Residential (Rural-Out - All Electric)	ER2	370	498,088	\$64,053.38	\$0.1286	370	416,573	\$53,930.58	\$0.1295	370	347,201	\$46,775.22	\$0.1347	367	325,561	\$44,556.81	\$0.1369
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	2,955	\$378.26	\$0.1280	2	2,425	\$312.46	\$0.1288	2	1,967	\$264.01	\$0.1342	2	1,372	\$192.30	\$0.1402
Residential (Rural-Out w/Dmd)	ER3	15	25,173	\$3,197.46	\$0.1270	15	26,458	\$3,336.23	\$0.1261	15	23,350	\$3,042.66	\$0.1303	15	15,858	\$2,139.28	\$0.1349
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	10,622	\$1,377.53	\$0.1297	9	9,409	\$1,224.75	\$0.1302	9	7,985	\$1,080.63	\$0.1353	9	7,763	\$1,064.90	\$0.1372
<b>Total Residential (Rural)</b>		<b>1,176</b>	<b>1,334,086</b>	<b>\$173,433.34</b>	<b>\$0.1300</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>
Commercial (1 Ph-In - No Dmd)	EC2	72	31,999	\$5,166.30	\$0.1615	72	31,882	\$5,130.75	\$0.1609	72	31,708	\$5,216.75	\$0.1645	72	33,471	\$5,496.30	\$0.1642
Commercial (1 Ph-Out - No Dmd)	EC2O	50	11,118	\$2,094.53	\$0.1884	50	9,408	\$1,858.70	\$0.1976	50	8,791	\$1,806.71	\$0.2055	50	8,924	\$1,838.47	\$0.2060
<b>Total Commercial (1 Ph) No Dmd</b>		<b>122</b>	<b>43,117</b>	<b>\$7,260.83</b>	<b>\$0.1684</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>
Commercial (1 Ph-In - w/Demand)	EC1	259	299,031	\$45,856.29	\$0.1533	260	309,521	\$46,731.05	\$0.1510	260	267,791	\$42,762.13	\$0.1597	259	279,300	\$44,966.50	\$0.1610
Commercial (1 Ph-Out - w/Demand)	EC1O	24	41,830	\$5,894.91	\$0.1409	24	43,432	\$6,099.39	\$0.1404	24	39,876	\$5,796.90	\$0.1454	24	38,602	\$5,730.99	\$0.1485
<b>Total Commercial (1 Ph) w/Demand</b>		<b>283</b>	<b>340,861</b>	<b>\$51,751.20</b>	<b>\$0.1518</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>
Commercial (3 Ph-Out - No Dmd)	EC4O	2	600	\$116.60	\$0.1943	2	360	\$84.14	\$0.2337	2	80	\$46.97	\$0.5871	2	40	\$41.55	\$1.0388
<b>Total Commercial (3 Ph) No Dmd</b>		<b>2</b>	<b>600</b>	<b>\$116.60</b>	<b>\$0.1943</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>
Commercial (3 Ph-In - w/Demand)	EC3	214	1,840,308	\$243,290.37	\$0.1322	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
Commercial (3 Ph-Out - w/Demand)	EC3O	37	288,847	\$38,828.23	\$0.1344	37	259,862	\$35,269.49	\$0.1357	37	235,437	\$33,446.06	\$0.1421	37	239,673	\$34,913.66	\$0.1457
Commercial (3 Ph-Out - w/Dmd.&Sub-St.)	E3SO	3	104,160	\$13,110.89	\$0.1259	3	96,960	\$12,199.22	\$0.1258	3	91,160	\$11,798.87	\$0.1294	3	101,960	\$13,281.90	\$0.1303
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	1,880	\$250.82	\$0.1334	1	1,640	\$221.35	\$0.1350	1	1,720	\$235.63	\$0.1370	1	1,400	\$199.68	\$0.1426
<b>Total Commercial (3 Ph) w/Demand</b>		<b>255</b>	<b>2,235,195</b>	<b>\$295,480.31</b>	<b>\$0.1322</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>
Large Power (In - w/Dmd & Rct)	EL1	15	1,519,156	\$166,527.05	\$0.1096	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
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	890,900	\$92,963.95	\$0.1043	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
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	444,000	\$49,582.76	\$0.1117	1	448,800	\$50,347.54	\$0.1122	1	452,400	\$52,253.99	\$0.1155	1	478,800	\$54,694.42	\$0.1142
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	61,200	\$6,282.65	\$0.1027	2	55,210	\$5,835.99	\$0.1057	2	60,593	\$21,241.23	\$0.3506	2	87,622	\$16,661.21	\$0.1901
<b>Total Large Power</b>		<b>21</b>	<b>2,915,256</b>	<b>\$315,356.41</b>	<b>\$0.1082</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>
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	793,516	\$80,520.83	\$0.1015	1	853,543	\$80,449.78	\$0.0943	1	772,121	\$80,559.60	\$0.1043	1	895,662	\$91,373.85	\$0.1020
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	592,800	\$64,867.63	\$0.1094	1	786,160	\$76,598.10	\$0.0974	1	706,069	\$73,992.70	\$0.1048	1	776,994	\$81,131.34	\$0.1044
<b>Total Industrial</b>		<b>2</b>	<b>1,386,316</b>	<b>\$145,388.46</b>	<b>\$0.1049</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>
Interdepartmental (In - No Dmd)	ED1	9	33,828	\$4,311.86	\$0.1275	10	28,938	\$3,730.91	\$0.1289	10	23,142	\$3,163.33	\$0.1367	10	36,343	\$5,023.47	\$0.1382
Interdepartmental (Out - w/Dmd)	ED2O	2	234	\$55.59	\$0.2376	2	357	\$71.87	\$0.2013	2	446	\$85.32	\$0.1913	2	459	\$87.80	\$0.1913
Interdepartmental (In - w/Dmd)	ED2	27	65,129	\$9,060.76	\$0.1391	27	42,935	\$6,062.18	\$0.1412	27	31,110	\$4,592.92	\$0.1476	27	20,581	\$3,182.19	\$0.1546
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	188,404	\$23,936.79	\$0.1271	10	175,037	\$22,596.36	\$0.1291	10	158,726	\$21,126.86	\$0.1331	10	146,248	\$20,261.76	\$0.1385
Interdepartmental (Street Lights)	EDSL	5	14,608	\$1,413.75	\$0.0968	6	21,490	\$2,048.15	\$0.0953	6	21,490	\$2,074.95	\$0.0966	6	21,490	\$2,075.51	\$0.0966
Interdepartmental (Traffic Signals)	EDTS	8	1,267	\$117.15	\$0.0925	8	1,266	\$117.05	\$0.0925	8	1,388	\$128.17	\$0.0925	8	1,342	\$124.07	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	18,459	\$450.95	\$0.0244	1	18,241	\$514.58	\$0.0282	1	17,475	\$444.56	\$0.0254	1	18,630	\$448.80	\$0.0241
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>62</b>	<b>321,929</b>	<b>\$39,346.85</b>	<b>\$0.1222</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>SUB-TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,894</b>	<b>11,289,286</b>	<b>\$1,367,968.74</b>	<b>\$0.1212</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>
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$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>\$15.36</b>	<b>\$0.0000</b>
<b>TOTAL CONSUMPTION &amp; DEMAND</b>		<b>5,910</b>	<b>11,289,286</b>	<b>\$1,367,984.10</b>	<b>\$0.1212</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>

BILLING SUMMARY AND COA															
#REF!															
2019 - OCTOBER BILLING WITH AUGUST 2019 A															
Class and/or Schedule	Rate Code	# of Bills	Jul-19 (kWh Usage)	Jul-19 Billed	Cost / kWh For Month	# of Bills	Sep-19 (kWh Usage)	Sep-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	3,344	1,867,903	\$245,867.24	\$0.1316	3,359	3,350,534	\$393,425.78	\$0.1174	26,523,848	\$3,340,515.02	\$0.1259	3,340	56.5019%	
Residential (Dom-In) w/Ecosmart	E1E	7	3,714	\$490.94	\$0.1322	7	5,542	\$659.37	\$0.1190	46,905	\$6,038.00	\$0.1287	8	0.1311%	
Residential (Dom-In - All Electric)	E2	628	344,748	\$45,441.85	\$0.1318	630	510,776	\$60,676.95	\$0.1188	6,230,600	\$775,709.02	\$0.1245	617	10.4383%	
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	558	\$73.44	\$0.1316	1	859	\$101.69	\$0.1184	7,014	\$891.44	\$0.1271	1	0.0169%	
Total Residential (Domestic)		3,980	2,216,923	\$291,873.47	\$0.1317	3,997	3,867,711	\$454,863.79	\$0.1176	32,808,367	\$4,123,153.48	\$0.1257	3,966	67.0881%	
Residential (Rural-Out)	ER1	786	641,759	\$88,459.44	\$0.1378	783	957,566	\$118,989.72	\$0.1243	9,220,183	\$1,217,195.81	\$0.1320	780	13.1884%	
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,594	\$365.77	\$0.1410	4	3,819	\$483.39	\$0.1266	36,557	\$4,936.83	\$0.1350	4	0.0677%	
Residential (Rural-Out - All Electric)	ER2	367	325,561	\$44,556.81	\$0.1369	367	472,761	\$58,550.99	\$0.1238	5,226,701	\$681,822.66	\$0.1304	370	6.2601%	
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	1,372	\$192.30	\$0.1402	2	2,134	\$267.77	\$0.1255	26,729	\$3,503.80	\$0.1311	2	0.0338%	
Residential (Rural-Out w/Dmd)	ER3	15	15,858	\$2,139.28	\$0.1349	15	14,462	\$1,828.22	\$0.1264	519,884	\$65,741.18	\$0.1265	15	0.2594%	
Residential (Rural-Out - All Electric w/Dm	ER4	9	7,763	\$1,064.90	\$0.1372	9	9,737	\$1,220.01	\$0.1253	141,978	\$18,422.24	\$0.1298	9	0.1522%	
Total Residential (Rural)		1,183	994,907	\$136,778.50	\$0.1375	1,180	1,460,479	\$181,340.10	\$0.1242	15,172,032	\$1,991,622.52	\$0.1313	1,180	19.9617%	
Commercial (1 Ph-In - No Dmd)	EC2	72	33,471	\$5,496.30	\$0.1642	73	30,579	\$4,830.90	\$0.1580	402,854	\$64,844.33	\$0.1610	72	1.2236%	
Commercial (1 Ph-Out - No Dmd)	EC2O	50	8,924	\$1,838.47	\$0.2060	50	13,407	\$2,332.17	\$0.1740	127,504	\$24,352.59	\$0.1910	50	0.8373%	
Total Commercial (1 Ph) No Dmd		122	42,395	\$7,334.77	\$0.1730	123	43,986	\$7,163.07	\$0.1628	530,358	\$89,196.92	\$0.1682	122	2.0609%	
Commercial (1 Ph-In - w/Demand)	EC1	259	279,300	\$44,966.50	\$0.1610	259	434,957	\$61,778.60	\$0.1420	3,878,728	\$591,531.15	\$0.1525	259	4.3882%	
Commercial (1 Ph-Out - w/Demand)	EC1O	24	38,602	\$5,730.99	\$0.1485	24	50,125	\$6,798.92	\$0.1356	529,036	\$74,783.37	\$0.1414	24	0.4116%	
Total Commercial (1 Ph) w/Demand		283	317,902	\$50,697.49	\$0.1595	283	485,082	\$68,577.52	\$0.1414	4,407,764	\$666,314.52	\$0.1512	284	4.7998%	
Commercial (3 Ph-Out - No Dmd)	EC4O	2	40	\$41.55	\$1.0388	2	40	\$41.17	\$1.0293	38,680	\$5,760.08	\$0.1489	2	0.0338%	
Total Commercial (3 Ph) No Dmd		2	40	\$41.55	\$1.0388	2	40	\$41.17	\$1.0293	38,680	\$5,760.08	\$0.1489	2	0.0338%	
Commercial (3 Ph-In - w/Demand)	EC3	215	1,710,073	\$236,293.10	\$0.1382	214	2,176,647	\$275,955.59	\$0.1268	21,115,838	\$2,857,371.75	\$0.1353	213	3.5988%	
Commercial (3 Ph-Out - w/Demand)	EC3O	37	239,673	\$34,913.66	\$0.1457	37	302,688	\$39,850.84	\$0.1317	3,715,878	\$505,504.05	\$0.1360	37	0.6273%	
Commercial (3 Ph-Out - w/Dmd.&Sub-St.	E3SO	3	101,960	\$13,281.90	\$0.1303	3	119,120	\$14,130.30	\$0.1186	1,244,920	\$167,104.02	\$0.1262	3	0.0507%	
Commercial (3 Ph-In - w/Demand, No Ta	EC3T	1	1,400	\$199.68	\$0.1426	1	7,360	\$907.68	\$0.1233	40,320	\$5,274.13	\$0.1308	1	0.0169%	
Total Commercial (3 Ph) w/Demand		256	2,053,106	\$284,688.34	\$0.1387	255	2,605,815	\$330,844.41	\$0.1270	26,116,956	\$3,525,253.95	\$0.1350	254	4.2937%	
Large Power (In - w/Dmd & Rct)	EL1	15	1,880,311	\$209,268.21	\$0.1113	15	2,252,991	\$222,017.11	\$0.0985	22,431,990	\$2,425,556.08	\$0.1081	16	0.2749%	
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	983,750	\$104,878.64	\$0.1066	3	848,595	\$89,630.95	\$0.1056	11,919,628	\$1,230,341.84	\$0.1032	3	0.0507%	
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	478,800	\$54,694.42	\$0.1142	1	432,000	\$46,652.40	\$0.1080	5,550,000	\$617,817.16	\$0.1113	1	0.0169%	
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	87,622	\$16,661.21	\$0.1901	2	82,829	\$14,994.63	\$0.1810	851,704	\$140,367.03	\$0.1648	2	0.0338%	
Total Large Power		21	3,430,483	\$385,502.48	\$0.1124	21	3,616,415	\$373,295.09	\$0.1032	40,753,322	\$4,414,082.11	\$0.1083	22	0.3764%	
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	895,662	\$91,373.85	\$0.1020	1	949,284	\$85,931.28	\$0.0905	11,014,619	\$1,080,448.38	\$0.0981	1	0.0169%	
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	776,994	\$81,131.34	\$0.1044	1	813,670	\$78,886.15	\$0.0970	9,232,627	\$935,071.15	\$0.1013	1	0.0169%	
Total Industrial		2	1,672,656	\$172,505.19	\$0.1031	2	1,762,954	\$164,817.43	\$0.0935	20,247,246	\$2,015,519.53	\$0.0995	2	0.0338%	
Interdepartmental (In - No Dmd)	ED1	10	36,343	\$5,023.47	\$0.1382	10	46,090	\$5,885.60	\$0.1277	396,654	\$52,830.43	\$0.1332	10	0.1635%	
Interdepartmental (Out - w/Dmd)	ED2O	2	459	\$87.80	\$0.1913	2	629	\$105.41	\$0.1676	4,352	\$876.68	\$0.2014	2	0.0338%	
Interdepartmental (In - w/Dmd)	ED2	27	20,581	\$3,182.19	\$0.1546	27	23,322	\$3,340.49	\$0.1432	523,103	\$74,881.40	\$0.1431	28	0.4652%	
Interdepartmental (3Ph-In - w/Dmd)	ED3	10	146,248	\$20,261.76	\$0.1385	10	139,132	\$17,754.02	\$0.1276	1,911,115	\$248,777.26	\$0.1302	10	0.1692%	
Interdepartmental (Street Lights)	EDSL	6	21,490	\$2,075.51	\$0.0966	6	21,490	\$2,070.47	\$0.0963	310,095	\$29,465.02	\$0.0950	6	0.0973%	
Interdepartmental (Traffic Signals)	EDTS	8	1,342	\$124.07	\$0.0925	8	1,410	\$130.39	\$0.0925	17,686	\$1,635.26	\$0.0925	8	0.1353%	
Generators (JV2 Power Cost Only)	GJV2	1	18,630	\$448.80	\$0.0241	1	16,041	\$374.08	\$0.0233	215,986	\$6,000.07	\$0.0278	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%	
Total Interdepartmental		64	245,093	\$31,203.60	\$0.1273	64	248,114	\$29,660.46	\$0.1195	3,378,991	\$414,466.12	\$0.1227	64	1.0812%	
SUB-TOTAL CONSUMPTION & DEMAND		5,913	10,973,505	\$1,360,625.39	\$0.1240	5,927	14,090,596	\$1,610,603.04	\$0.1143	143,453,716	\$17,245,369.23	\$0.1202	5,896	99.7294%	
Street Lights (In)	SLO	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	0	\$161.24	\$0.0000	14	0.2368%	
Street Lights (Out)	SLOO	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	0	\$23.01	\$0.0000	2	0.0338%	
Total Street Light Only		16	0	\$15.36	\$0.0000	16	0	\$15.36	\$0.0000	0	\$184.25	\$0.0000	16	0.2706%	
TOTAL CONSUMPTION & DEMAND		5,929	10,973,505	\$1,360,640.75	\$0.1240	5,943	14,090,596	\$1,610,618.40	\$0.1143	143,453,716	\$17,245,553.48	\$0.1202	5,912	100.0000%	



**THE CITY OF NAPOLEON, OHIO  
EFFICIENCY SMART SCHEDULE TO  
MASTER SERVICES AGREEMENT**

WHEREAS, American Municipal Power, Inc. (“AMP”) and the above-named member of AMP (“Municipality”) have entered into a Master Services Agreement, designated as AMP Contract No. C-11-2005-4440, pursuant to which AMP provides certain services to Municipality as set forth in various schedules to the Master Services Agreement (the “Schedules”); and

WHEREAS, AMP and the Vermont Energy Investment Corporation (“VEIC”) entered into an agreement effective January 1, 2017, as amended (collectively, the “ES Agreement”), for VEIC to provide a suite of energy efficiency services (the “Program Services”) designed to lower the total need for higher cost electric generation facilities or purchased power and thereby reduce Municipality’s customers’ bills, to be offered to AMP members (“Subscribing Member Utilities” or “SMUs”); and

**[For prior subscribers: WHEREAS, AMP and Municipality entered into a Schedule for Efficiency Smart Services designated as AMP Contract No. C-8-2013-9778 (the “Prior Schedule”); and]**

WHEREAS, AMP has provided the Municipality with a copy of the ES Agreement; and

WHEREAS, AMP has offered to enter into this ES Schedule to provide that AMP will agree to obtain and sell to Municipality the energy efficiency services selected by Municipality on Appendix A and described in Appendix B hereto (the “ES Services”) and Municipality will agree to be an SMU;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein set forth, it is agreed by and between Municipality and AMP as follows:

**SECTION 1. DEFINITIONS AND EXPLANATIONS OF TERMS**

Terms used but not defined herein shall have the meanings ascribed to them in Exhibit 1 to this Schedule or, if not defined herein or in Exhibit 1 to this Schedule, then in Appendix A of the Master Services Agreement.

## SECTION 2. REPRESENTATIONS

Municipality represents to AMP that, as of the date this Schedule was executed by the Municipality:

- (i) Municipality has full legal right and authority to enter into this ES Schedule, to carry out its obligations hereunder and to furnish electric power and energy and related services to its customers; and
- (ii) This ES Schedule has been duly executed and delivered by the appropriate officer or officers of Municipality pursuant to legislative action authorizing or directing the same.

## SECTION 3. TERM

A. This ES Schedule shall become effective upon its execution by Municipality and AMP (“Effective Date”). After the Effective Date, Municipality’s entitlement to ES Resources shall be governed by this ES Schedule.

B. This ES Schedule shall remain in effect until three (3) years following the Effective Date (the “Initial Term”); *provided, however*, that Municipality shall remain obligated to pay to AMP any charges that shall have accrued hereunder and are unpaid as of such expiration date. [Optional: If, as of the expiration of the Initial Term, the ES Services selected by Municipality in Appendix A hereto remain available, on a going-forward basis, as ES Services, then the Term of this ES Schedule shall be extended for an additional three (3) year period (the “Extended Term”) unless written notice of termination is provided by either Party to the other not later than ninety (90) days prior to the then-effective expiration date; provided, however, that the Charge Appendix for such Extended Term may be revised as set forth in Section 6.]

## SECTION 4. PROVISION OF ES SERVICES

A. AMP agrees for the term of this ES Schedule to provide to Municipality the ES Services and Municipality agrees to take and pay for those ES Services for the term of this ES Schedule. AMP’s obligations to provide ES Services hereunder are contingent upon, and subject to, the delivery to AMP of ES Services by VEIC in accordance with the ES Agreement or AMP’s ability to secure replacement energy efficiency services in the event of a failure to deliver



or default, or declaration of *Force Majeure*, by VEIC, and AMP shall not be liable to Municipality for any failure by AMP to deliver to Municipality its ES Services on account of *Force Majeure* or if an Uncontrollable Force shall have prevented AMP from making such delivery.

B. Municipality specifically agrees that, although the provision of Program Services pursuant to the ES Agreement are intended to be the exclusive source of ES Services, AMP shall, in the event of a failure to deliver or default, or declaration of *Force Majeure*, by VEIC or another contractor, and whether or not such failure or default leads to termination of the ES Agreement, use its best efforts to substitute for actual delivery replacement energy efficiency services.

C. If, and only if, Municipality's selection of ES Services on Appendix A includes a Performance Based Service, the terms of Appendix D, Minimum Performance Guarantees, shall apply.

D. Municipality and AMP acknowledge that the provision of certain Program Services may require the execution of additional agreements between AMP and Municipality, as indicated on Appendix A.

## **SECTION 5. DELIVERY OF SERVICES**

A. Municipality agrees to take and AMP agrees to use its best efforts to deliver to Municipality ES Services in accordance with the terms and conditions of the ES Agreement for the entire term of the Agreement Period, and in accordance with the provisions of this ES Schedule. Municipality's ES Services in each Year during which this ES Schedule is in effect are set forth in Appendix A, which may be modified from time to time by written agreement of AMP and Municipality.

## **SECTION 6. RATES AND CHARGES**

A. AMP shall establish and maintain rates or charges, or any combination thereof, for ES Services made available to Municipality under this ES Schedule. Such rates or charges, or any combination thereof, shall be set forth in the Charge Appendix, Appendix C hereto, and shall provide revenues which, taken together with the revenues received by AMP under the Related ES Schedules and any other ES related revenues under other agreements, grants,

settlements or the like (“ES Related Revenues”), are sufficient, but only sufficient, to meet the Revenue Requirements.

B. Municipality’s charges in respect of any Month during which AMP has made available to Municipality any ES Services under this ES Schedule (whether or not Municipality actually accepts delivery thereof) shall be paid by Municipality through rates or charges, or the combination thereof, as set forth in the Charge Appendix and shall, unless Municipality otherwise notifies AMP in writing, be invoiced on Municipality’s regular monthly power supply invoice from AMP. Billings pursuant to this ES Schedule shall begin in the second month after the Effective Date.

[Applicable if Auto-Renew is selected in Section 3 above: C. For any Extended Term, and subject to the limitations set forth in Section 6(A), AMP shall review and, if necessary, shall revise prospectively the Charge Appendix to ensure that the rates or charges, ES Related Revenues, or any combination thereof, as set forth therein and the like appendices in the Related ES Schedules, in the aggregate, continue to cover AMP’s estimate of all of the Revenue Requirements and recognize other factors as determined appropriate by AMP. AMP shall notify Municipality of each revision to the Charge Appendix and set forth the effective date thereof, which date shall not be less than thirty (30) days after such notice prior to such effective date.]

D. AMP may seek to bid or sell the MW savings from the ES program into any available capacity market during the term of this ES Schedule. Municipality acknowledges that in order for Municipality’s MW savings to be included in such bid(s), its customers will be required to assign rights to the MW savings to AMP. In the event that AMP receives proceeds in excess of its administrative expenses incurred in connection with any such bid, such proceeds shall be returned to the Members pursuant to a plan of disbursement approved by the AMP Board of Trustees.

## **SECTION 7. ADDITIONAL COVENANTS OF MUNICIPALITY**

A. Municipality covenants and agrees that it shall take no action the effect of which would be to prevent, hinder or delay AMP from the timely fulfillment of its obligations under this ES Schedule or Master Services Agreement; *provided, however*, that nothing contained herein shall be construed to prevent or restrict Municipality from asserting any rights which it may have against AMP.

B. As noted above, Municipality has been provided with copies of the ES Agreement between AMP and VEIC. Municipality covenants and agrees that Municipality shall use reasonable efforts to comply with all terms and conditions set forth in the ES Agreement, insofar as those terms and conditions apply to Municipality as an SMU. In furtherance of the foregoing, Municipality agrees to:

- (i) Provide electronic data for customer account and usage data on a regular basis to VEIC, including a regular quarterly transfer and occasional individual customer usage updates;
- (ii) Participate in ES public relations (PR) efforts (to extent possible);
- (iii) Facilitate the communication of ES materials within the community;
- (iv) Refer customer inquiries for ES Services to VEIC;
- (v) Receive referrals from VEIC regarding customer issues that are not ES-related; and,
- (vi) If Municipality has subscribed to a Performance Based Service, participate in AMP's Evaluation, Measurement & Verification efforts as needed.

C. Municipality covenants and agrees to use all reasonable efforts to take all lawful actions necessary or convenient to fulfill all of its obligations under this ES Schedule.

D. AMP shall not be liable for any injury, loss or damage incurred by Municipality except to the extent caused by AMP's recklessness or willful, wanton, or intentional acts or omissions in provision of the ES Services. Any such liability of AMP is limited to the actual damages incurred by Municipality or Fifty Thousand Dollars (\$50,000), whichever is less, irrespective of whether the theory of recovery of such damages sounds in tort, contract, or any other legal theory.

## **SECTION 8. RELATIONSHIP TO AND COMPLIANCE WITH OTHER INSTRUMENTS**

It is recognized by Municipality that AMP, in undertaking or causing to be undertaken the financing and administration of ES, must comply with the requirements of the Related ES Schedules, the ES Agreement and other related agreements, decrees, licenses, permits,

settlements, regulatory approvals, and the like; it is therefore agreed that this ES Schedule should be construed in a manner consistent with compliance with the provisions of all such agreements, decrees, licenses, permits, settlements, and regulatory approvals, and Municipality shall use reasonable efforts to assist AMP and VEIC in complying with same.

#### **SECTION 9. MODIFICATION OR AMENDMENT OF THIS SCHEDULE**

Except to the extent otherwise provided herein, with respect to supplements, amendments and modifications in the Appendices, this ES Schedule shall not be amended, modified or otherwise changed except by written instrument executed and delivered by each Party.

#### **SECTION 10. APPLICABLE LAW; CONSTRUCTION**

A. This ES Schedule is made under and shall be governed by the law of the State of Ohio; provided, however, that if Municipality is not domiciled in Ohio, the power and authority of Municipality to enter into this ES Schedule shall be construed in accordance with the laws of Municipality's domicile State or Commonwealth.

B. Headings herein are for convenience only and shall not influence the construction hereof.

#### **SECTION 11. SEVERABILITY**

If any Section, Subsection, Paragraph, Clause or provision or any part thereof of this ES Schedule shall be finally adjudicated by a court of competent jurisdiction to be invalid, the remainder of this ES Schedule shall be unaffected by such adjudication and all the remaining provisions of this ES Schedule shall remain in full force and effect as though such Section, Subsection, Paragraph, Clause or provision or any part thereof so adjudicated to be invalid had not, to the extent of such invalidity, been included herein and the ES Schedule then interpreted to reflect the intention of the parties to the greatest extent permitted by law.

#### **SECTION 12. SURVIVORSHIP OF OBLIGATIONS**

The termination of this ES Schedule shall not discharge any Party hereto from any obligation that it owes to any other Party under this ES Schedule by reason of any transaction, loss, cost, damage, expense, or liability which shall occur or arise (or the circumstances, events, or basis of which shall occur or arise) prior to such termination. It is the intent of the Parties

hereby that any such obligation owed (whether the same shall be known or unknown at the termination of this ES Schedule or whether the circumstances, events, or basis of the same shall be known or unknown at the termination of this ES Schedule) shall survive the termination of this ES Schedule.

**[SECTION 13. TERMINATION OF PRIOR SCHEDULE**

Upon full execution of this ES Schedule, the Prior Schedule shall terminate with no further action by either Party.]

*[Signatures Appear on the Following Page]*



IN WITNESS WHEREOF, the Parties hereto have caused this ES Schedule to be executed by their duly authorized representative.

**CITY OF NAPOLEON, OHIO**

APPROVED AS TO FORM:

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

By: \_\_\_\_\_  
Municipal Legal Advisor

**AMERICAN MUNICIPAL POWER, INC.**

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Jolene Thompson  
Executive Vice President Member Services  
& External Affairs

By: \_\_\_\_\_  
Rachel Gerrick  
Senior Vice President & General Counsel for  
Corporate Affairs

**EXHIBIT 1**  
**TO AMP/MUNICIPALITY EFFICIENCY SMART SCHEDULE**

**DEFINITIONS**

In addition to the words or terms defined in the Efficiency Smart Schedule, the following words and terms, when used in the ES Schedule, shall have the meanings set forth below.

***Appendix*** shall mean any of the appendices attached to this ES Schedule.

***Charge Appendix*** shall mean the listing of charges, and the components thereof, designed to recover the Revenue Requirements associated with the ES Services. The Charge Appendix is attached hereto as Appendix C and may be revised from in accordance with the provisions of Section 6 of this ES Schedule.

***Demand Focus*** shall mean the option provided under the High Performance service which focuses on enhanced MW savings.

***ES Charges*** shall mean the prices set forth in the Charge Appendix.

***ES Related Revenues*** shall have the meaning set forth in Section 6(A) of this ES Schedule.

***ES Schedule*** shall mean this Schedule between Municipality and AMP that is a Schedule to the Master Services Agreement.

***Energy Focus*** shall mean the option provided under the High Performance service which focuses on enhanced MWh savings.

***Force Majeure*** shall mean any event of *Force Majeure* under the ES Agreement.

***Master Services Agreement*** shall mean the contract document titled as such between Municipality and AMP referenced on the cover page of this ES Schedule.

***Month or Monthly*** refers to a calendar month.

***Operating Expenses shall mean the sum of the following:***

- (i) the cost paid to VEIC under the ES Agreements and the cost to AMP of administration of ES, including contributions to any reserve or contingency fund, taxes, the cost of insurance, and costs of compliance with and renewals of all required licenses and permits, legal, engineering, accounting and financial advisory fees and expenses, including repayment of any prudently incurred sums advanced by AMP for such purposes, whether incurred prior to the Effective Date or otherwise;
- (ii) the cost, if any, to AMP to establish and maintain an allowance for working capital related to ES;
- (iii) the cost of measurement, verification and forecasting incurred by AMP in furtherance of or related to ES, and all other costs not otherwise specified or recovered hereunder, but incurred by AMP in connection with the performance of its obligations under this ES Schedule;
- (iv) the costs of defending, compromising, and settling any suits or claims against AMP relating to ES, the ES Schedule or Related ES Schedules or any service rendered from ES and the payment of any judgments or verdicts related thereto; and
- (v) repayment of any prudently incurred sums for expenditures advanced by AMP in connection with any of the costs set forth above, whether incurred prior to the Effective Date or otherwise.

***Party or Parties*** refers to either or both, respectively, Municipality and AMP.

***Performance-Based Services*** means those services designated as such in Appendices A and B hereto.

***Related ES Schedules*** shall mean the ES-related schedules between AMP and other SMU's.

***Revenue Requirements*** shall be the sum of all Operating Expenses, and the repayment with interest of any borrowings by AMP related to the ES program, less any ES Related Revenues, but only to the extent not appropriately allocated directly to individual SMUs.

***Targeted Service*** means those services designated as such in Appendices A and B hereto.

***Uncontrollable Force*** shall mean any cause beyond the control of a Party, including, but not limited to, failure of facilities, flood, earthquake, storm, lightning, fire, epidemic, pestilence, war, riot, civil disturbance, labor disturbance, sabotage, restraint or action by court or public authority, and failure of third parties to provide transmission, which by due diligence and foresight such Party, as the case may be, could not reasonably have been expected to avoid and shall include the failure of an energy efficiency Contractor both to perform and to pay amounts due, if any, under the related Agreement.

***Year*** shall mean the twelve-month period commencing at 12:00 a.m. on January 1 of each calendar year; *provided, however*, that the first Year shall commence on the Effective Date set forth in Section 3 and shall expire at 12:00 a.m. on the next succeeding January 1.

Except where the context otherwise requires, words imparting the singular number shall include the plural number and vice versa, and words imparting persons shall include firms, associations, partnerships, public and private corporations, and any other legal entities.

**APPENDIX A  
SELECTED ES SERVICES**

Each of the available Program Services is listed below. Municipality must elect its ES Services by initialing each requested service, completing date-related blanks, and signing below.

**I. Performance-Based Comprehensive Services**

<b>Initial to Select</b>	<b>Program Service</b>
_____	Enhanced performance-based service @ \$1.65/MWh of annual retail sales for a 3-year term starting _____, 2020
_____	High performance-based service @ \$1.40/MWh of annual retail sales for a 3-year term starting _____, 2020 <i>Select One:</i> _____ Demand Focus option _____ Energy Focus option
_____	Basic performance-based service @ \$0.90/MWh of annual retail sales for a 3-year term starting _____, 2020

**II. Performance-Based C&I Custom Targeted Service**

<b>Initial to Select</b>	<b>Program Service</b>
_____	Custom C&I performance-based service @ \$1.30/MWh of annual commercial and industrial retail sales for a 3-year term starting _____, 2020

Municipality selects each of the ES Services initialed above.

**CITY OF NAPOLEON, OHIO**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_



## APPENDIX B PROGRAM SERVICES

*NOTE: The following is a description of available Program Services as of the Effective Date. Only those services selected by Municipality on Appendix A will be provided pursuant to this ES Schedule.*

### I. Performance-Based Comprehensive Service

#### **General Description**

Complete turnkey energy efficiency program services that serve all markets (residential, commercial, industrial, and municipal) with a 3-year contract. A 100% annual MWh savings target and/or a 100% MW savings target are established and guaranteed at 70% of the established target. Services include technical assistance, key account management, marketing, website, incentive processing, reporting, evaluation, measurement, and verification. Initiatives are subject to change but typically will include: large custom commercial and industrial services, business energy rebates, efficient appliance rebates, retail efficient lighting, community outreach services, community service organization partnerships, community-specific delivery strategies.

#### **Service level designations**

1) **Enhanced** - Savings targets set to reduce MWh 0.5% and reduce peak MW 0.6% annually. This service has a minimum requirement of a 10 MW peak (due to the need for sufficient C&I load).

2) **High** - Savings targets set to reduce MWh 0.4% and reduce peak MW 0.4% annually and one of the following options:

- **Energy Focus:** 0.1% additional MWh reduction
- OR -
- **Demand Focus:** 0.2% additional MW reduction

Demand Focus has a minimum requirement of a 10 MW peak (due to the need for sufficient C&I load). SMUs achieving 125% (or more) of their High Performance target are not eligible to select the Basic Performance option in a subsequent contract for a Comprehensive service.

3) **Basic** - Savings target set to reduce MWh by 0.25% annually. SMUs achieving 200% (or more) of their Basic Performance target must choose either the High Performance or Enhanced Performance service in a subsequent contract for a Comprehensive service.

#### **Evaluation, Measurement and Verification (EM&V)**

Efficiency Smart quality control and evaluation, measurement and verification savings protocols are included in the service. AMP also retains an independent, 3rd-party EM&V consultant to verify the program savings on an annual basis.

## **II. Targeted Service**

Targeted service refers to Efficiency Smart Services that are limited to specific markets.

### ***Performance-Based Commercial & Industrial (C&I) Targeted Service***

#### **General Description**

This service is focused on all commercial and industrial customers and includes key account management, customized technical services, third-party proposal analysis and review, financial incentives, promotion, reporting, evaluation, measurement, and verification.

#### **Service level designations**

Reduce MWh sales of all commercial and industrial sectors by 0.5% annually. Includes a performance guarantee and requires a 3-year contract term, as well as annual C&I sales greater than, or equal to, 20,000 MWh.

#### **Evaluation, Measurement and Verification (EM&V)**

Efficiency Smart quality control and evaluation, measurement and verification savings protocols are included in the service. AMP also retains an independent, 3rd-party EM&V consultant to verify the program savings on an annual basis.

## APPENDIX C EFFICIENCY SMART CHARGE INDEX

### 1. **Comprehensive Performance Based Services**

Charges for each year will be calculated by dividing Municipality's annual MWh sales for the last year for which such sales are available by twelve (12) (to arrive at an estimated monthly MWh sales amount) and multiplying that monthly MWh sales amount by the Base Service Charge listed below.

- **Enhanced Performance Comprehensive:** The Base Service Charge for each billing period is One Dollar and Sixty-Five Cents (\$1.65) per MWh of estimated monthly sales.
- **High Performance Comprehensive:** The Base Service Charge for each billing period is One Dollar and Forty Cents (\$1.40) per MWh of estimated monthly sales.
- **Basic Performance Comprehensive:** The Base Service Charge for each billing period is Ninety Cents (\$0.90) per MWh of estimated monthly sales.

### 1. **Targeted Service**

**Performance-Based Custom Commercial and Industrial (C&I) Service.** Charges for each year will be calculated by dividing Municipality's annual C&I MWh sales for the last year for which such sales are available by twelve (12) (to arrive at an estimated monthly MWh sales amount) and multiplying that monthly C&I MWh sales amount by the Base Service Charge of One Dollar and Thirty Cents (\$1.30) per MWh of estimated monthly C&I sales.

### 2. **Exceeding Performance-Based Targets**

The Performance-Based program costs are established at a level to cost-effectively achieve 100% of the targeted MWh and/or MW savings for the SMU within the subscribed Term. As a result, the allocated incentive funds available to the SMU in connection with the Performance-Based Service will be expended when the target is reached. Depending on market opportunities within an SMU, 100% of the Performance-Based Service target may be achieved before the end of a subscribed Term. Without additional funding, payment of

incentives and other offerings may need to be curtailed once savings targets are achieved.

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## **APPENDIX D**

### **MINIMUM PERFORMANCE GUARANTEE**

*NOTE: Minimum Performance Guarantee is applicable only if Municipality's ES Services selection in Appendix A includes a Performance-Based Service.*

VEIC will develop and execute a Minimum Performance Guarantee with Municipality. The following process will be used to establish the basis of the Minimum Performance Guarantee for Municipality and determine penalties associated with non-performance.

VEIC will develop an estimate of MWh and/or MW for the Performance Period for Municipality pursuant to a savings target estimating process reviewed by AMP. The minimum performance will be established at 70% of the estimate of MWh and/or MW savings for Municipality.

If at any time either VEIC or Municipality anticipates that the minimum performance will not be achieved due to an inability of VEIC to implement sufficient efficiency programs as a result of specific actions or inactions by Municipality, it shall notify AMP. Upon receipt of such notice, AMP will coordinate a meeting (the "Implementation Meeting") between AMP, VEIC and Municipality to discuss additional implementation opportunities and/or possible modifications to the Minimum Performance Guarantee. At least one (1) of Municipality's elected officials shall participate in the Implementation Meeting. Refusal of Municipality to participate in the Implementation Meeting will result in a termination of the Minimum Performance Guarantee, without further liability by VEIC or AMP.

Upon completion of savings verification for the Performance Period, AMP will determine if Municipality is eligible for a penalty payment due to failure of VEIC to meet the conditions of the Minimum Performance Guarantee. Efforts of both VEIC and Municipality following any Implementation Meeting will be considered as part of the determination process.

Penalty payments will be determined by subtracting the actual MWh and/or MW savings achieved during the Performance Period from the Minimum Performance Amount and multiplying the resulting value by the average cost per MWh and/or MW for Performance Based ES Services during the Performance Period.

If Municipality qualifies for penalty payments it will have the following choice of how to receive the payment: Municipality may elect to roll the value of the penalty payment into the next contract period and receive the equivalent MWh and/or MW savings at no additional cost or elect to receive a cash payment from VEIC in the amount of the penalty payment.

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# Efficiency Smart:

## *More Than Just Energy Efficiency*

Prepared for the City of Napoleon  
October 14, 2019

# Agenda

- > Why Efficiency Smart?
- > Efficiency Smart background
- > Our results
- > Menu of services
- > Community prospectus
- > Questions?





# Why Efficiency Smart?

- > Customer engagement & satisfaction
  - Customer support, website resources, account managers, engineers
  - Critical at a time when customers want information and control
  - Another way for you to gain insights into your customers
- > Goodwill and positive PR
  - Utility seen as providing tangible benefits and investments
  - Program targeting specific customers and sectors in need
  - Recognize local ambassadors of energy efficiency
  - Collaborate with utility to generate positive media coverage
  - We connect with customers on behalf of the utility

# Why Efficiency Smart?

- > Economic development
  - Retention – by lowering operating costs, we make your businesses more competitive
  - Growth – lower costs enable reinvestment: expand facilities, add production lines.
  - Attraction – Part of a package to attract new businesses to town
- > Smart financial decision
  - Cheapest form of energy (\$22/MWh in 2018)
  - Reduce capacity and transmission costs through peak reduction
  - Savings from eligible projects can be bid into the PJM forward capacity market
  - Lower bills for your customers

# What is Efficiency Smart?

Efficiency Smart is a hands-on service that interacts directly with electricity end users to reduce their usage.



1. Provide information and incentives to drive behavioral and technology changes
2. Quantify the change
3. Independent, third-party verifies change

# Who is Efficiency Smart?

- > AMP's member service for energy efficiency
- > More than 60 AMP member utilities in four states since 2011
- > Based in Columbus, Ohio
- > VEIC administered
  - 30 years experience in energy efficiency, transportation, and renewable energy programs
  - In 38 states, six Canadian provinces and seven countries in Europe and Asia

# How Efficiency Smart Has Matured

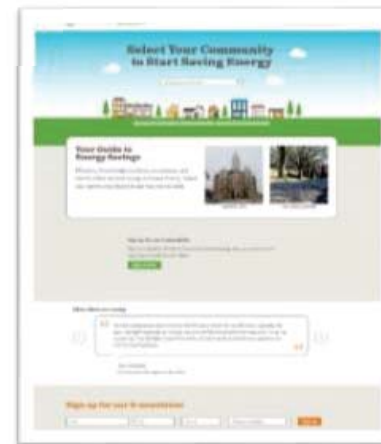
- > Direct outreach to small businesses
- > Deeper partnerships with large businesses
- > Evolution from CFL giveaways to LED retail partnerships
- > Community-specific webpages
- > Strong partnerships with community action agencies





# 2019/2020 Enhancements

- > Meter loan refresh
- > Online chat
- > Resources webpage
- > New heat pump rebates
- > Home energy use advice for high bill customers (coming soon)
- > Online home energy audit (coming 2020)



## Still Grounded In...

- > Hitting our participants' performance guarantees—76 out of 76
- > Benefit-to-cost ratio greater than 2 to 1
- > Third-party evaluation, measurement and verification = 97% average energy saving claim realization rate
- > Being an objective third-party
  - Vendor neutral
  - Technology neutral
- > Giving cost-effective recommendations
- > Providing superior customer service

# Case Study: Business Expansion

A packaged foods producer wanted to **expand its operations** to support **growing business needs**. The company's Bowling Green, Ohio location was under consideration for a **new cold storage facility**.

## RESULT:

- > One reason the company chose Bowling Green for its **expansion** was the presence of Efficiency Smart and its **ability to minimize operating costs**
- > It is building a new 19,700 square foot facility, **investing \$4,788,000** and bringing **new jobs** to the community
- > It is working with Efficiency Smart to **evaluate potential energy efficiency upgrades** for the new construction project

## Testimonial: Residential Efficiency

*“Efficiency Smart has made me more conscious about looking for energy-efficient models before purchasing new appliances and products for my home. It’s really a user-friendly program and it puts money back in my pocket.”*

~ Rhonda M.

# Napoleon's Current Contract Results

- > Lifetime savings achieved
  - 45,029 MWh
  - \$4,177,648 in customer savings
- > 385 kW summer peak reduction
- > Benefit-to-cost ratio = 4.4 to 1
- > Levelized cost (\$/MWh) = \$14.28



# What if I'm "Long on Power"?

- > Energy efficiency reduces amount of energy and capacity needed to fulfill utility's electric need
- > If electricity you have is in excess of what you need, you can sell excess into the market
- > Efficiency Smart has generated energy and capacity savings at lower rate than market since its inception
- > You will reduce net portfolio cost by selling excess into the market
- > Decision to join more related to ability to fund program than power portfolio position

# New Efficiency Smart Services Overview

	Comprehensive Programs	Commercial & Industrial Program	Load Shaping with Advanced Thermostat
Serves All Customer Classes	✓		
Services are Bundled for Lower Cost	✓		
All Goals Guaranteed at 70%	✓	✓	
Three Year Contract	✓	✓	
Select Customer Segment to Serve		✓	✓*

\* Can be done as a standalone or paired with Comprehensive or Commercial and Industrial program options

# New Efficiency Smart Menu of Services

	Service Option	Rate	Rate Basis	Deliverable
Comprehensive	Enhanced Performance	\$1.65	Total MWh retail sales	0.5% annual load and 0.6% annual peak reduction
	High Performance	\$1.40	Total MWh retail sales	0.4% annual load and 0.4% annual peak reduction
	> Energy Focus			0.1% additional annual load reduction
	> Demand Focus			0.2% additional annual peak reduction
	Basic Performance	\$0.90	Total MWh retail sales	0.25% annual load reduction
Targeted	Commercial & Industrial (C&I)	\$1.30	C&I MWh retail sales	0.5% annual C&I load reduction
	Residential Load Shaping with Smart Thermostats	More info coming soon...		

# Next Contract Options for Napoleon, Ohio

	Three-Year Cost	MWh Goal	Summer kW Goal	Avoided Cost	Benefit-to-Cost Ratio
High Performance > Energy Focus	\$610,530	2,180	372	\$1,636,957	2.7
High Performance > Demand Focus	\$610,530	1,744	559	\$1,783,547	2.9
Enhanced Performance	\$719,553	2,180	559	\$1,975,515	2.7

\*Based on 2018 coincident peak

\*\*Based on 2017 sales data reported to AMP

# Questions?

## For More About Efficiency Smart:

Sean Clement | Director of Operations | Efficiency Smart  
[sclement@efficiencysmart.org](mailto:sclement@efficiencysmart.org) | 614-468-4918

Tom Coyle | Director of Account Management | Efficiency Smart  
[tcoyle@efficiencysmart.org](mailto:tcoyle@efficiencysmart.org) | 614-468-4924

Randy Corbin | Assistant Vice President of Energy Efficiency | AMP  
[rcorbin@amppartners.org](mailto:rcorbin@amppartners.org) | 614-540-1111



# Electric Dept. Report September 2019

There were 13 callouts for the month of September. 4 callouts were to turn on accounts. 1 callout was due to a lightning strike. 2 callouts were outages caused by animals getting in to power lines. 2 callouts were due to customer side of meter issues. 3 callouts were due to equipment issues. 1 callout was a limb on the neutral that entailed removing the limb (no outage).

**Linemen/Service Truck:** Linemen installed an underground service on Road Z. 2 linemen traveled to Ocala, Florida for mutual aid standby. Crews installed URD services at West Villa Condos. Crews installed URD primary on Rd. P-3 and hooked up a temp service. Crews replaced 3 poles at the corner of Maple and Shelby. Linemen installed URG primary for new cell tower on Rd. 9-B. Crews installed one new secondary pole, reconfigured and removed two poles for street lighting in Gerald. Crews pulled an old pole at Barnes and Perry. Linemen installed new URD service on Clairmont near High School. Crews repaired wire and replaced crossarm struck by lightning on Rd. S between Rd. 13 and St. Rt. 108. Crews performed a line rebuild on Haley and Leonard streets. Crews upgraded secondary and replaced a pole in alley between Washington and Clinton near Haley St. The service truck lineman performed locates and trouble calls and installed LED street lighting. Both attended safety training.

**Substation Crew:** The substation crew completed spraying at substations and worked on AMPT billing and performed maintenance on substation breakers and completed PM as required.

**Tree Crew:** The line clearance crew trimmed on 424 West, West Clinton, Rd. 10 between S and T and Strong Street.

**Storeroom/Inventory/ Meter Reading:** Shawn read meters for billing dept., priced and purchased inventory. He also helped line crews as needed throughout the month due to personnel on Mutual aid and extra manpower needed to complete lengthy Primary URD installations.

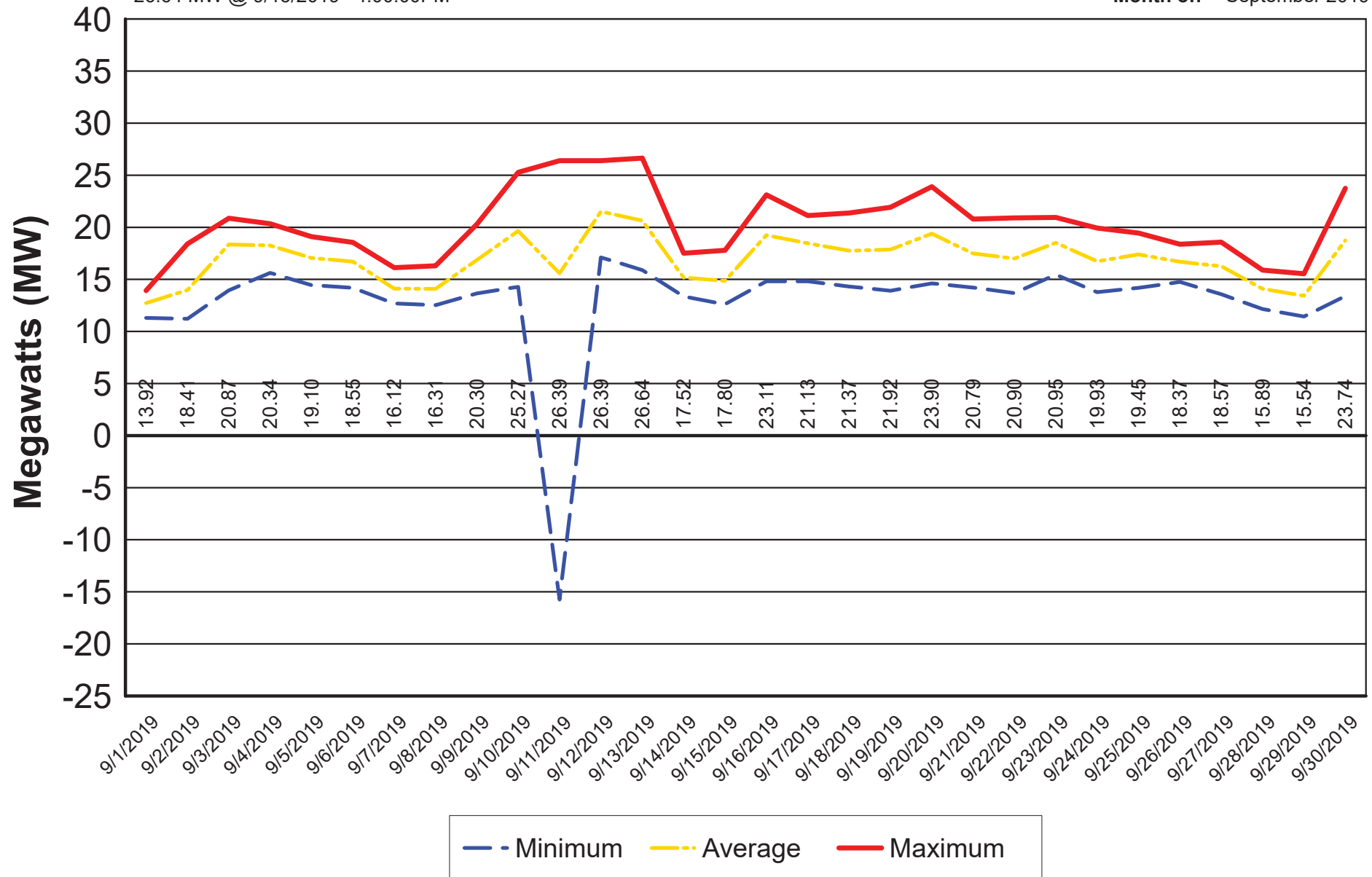
The **Peak Load** for September 2019 was **26.64 MW** occurring on the 13<sup>th</sup> at 4:00 PM. This was a decrease of 2.79 MW compared to September 2018. The **Average Load** was 16.95MW. This was an increase of .31 MW compared to September 2018. JV2 ran on 9/11/19 and produced 5.26 MWh. The gas turbines ran on 9/11/19 and produced 341.12 MWh. Solar Information not available to NPL.

# Napoleon Power & Light

## System Load

Peak Load:  
26.64 MW @ 9/13/2019 4:00:00PM

Month of: September 2019

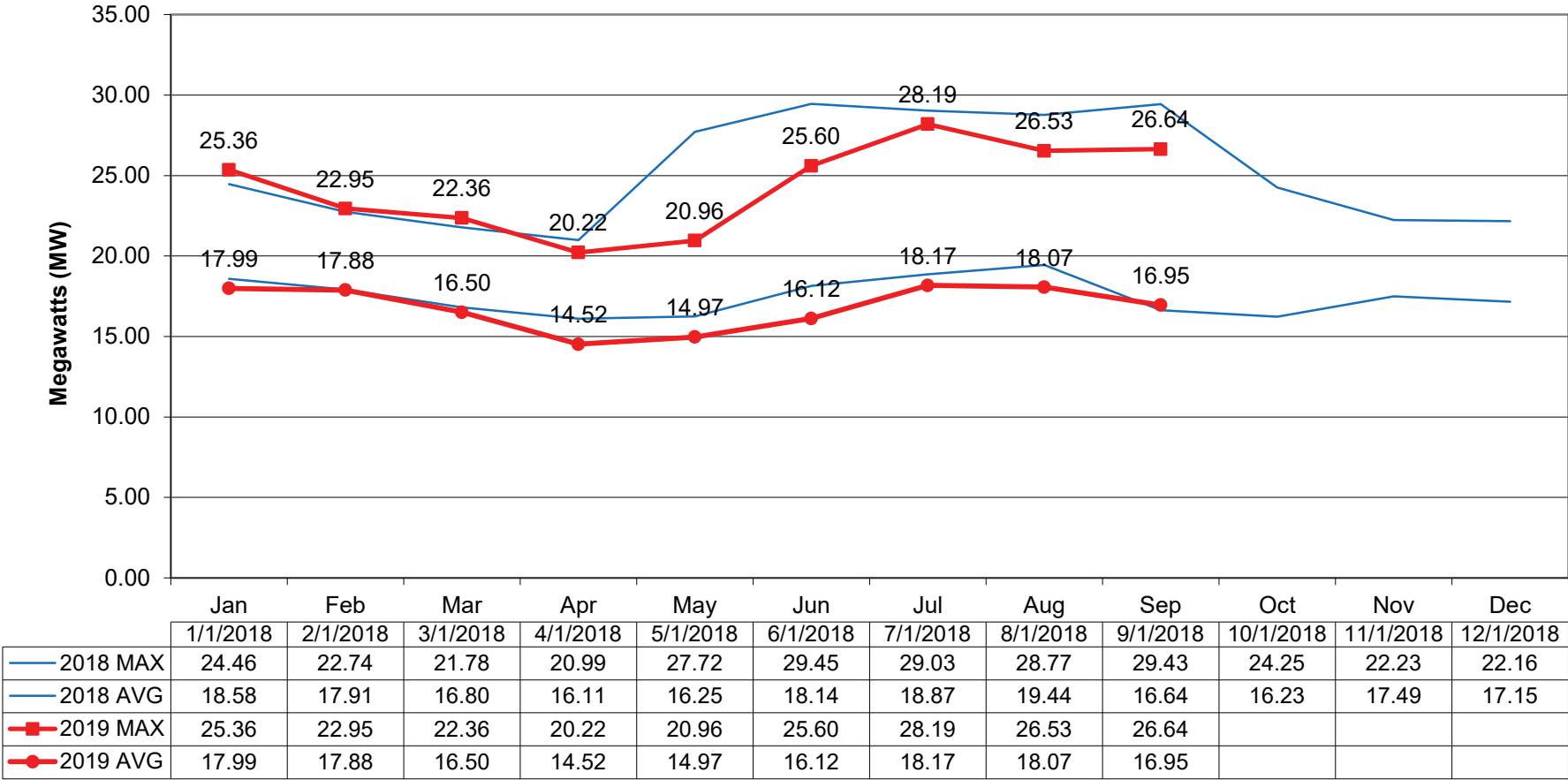


# Napoleon Power & Light

## Daily Generation Output



# NAPOLEON POWER & LIGHT

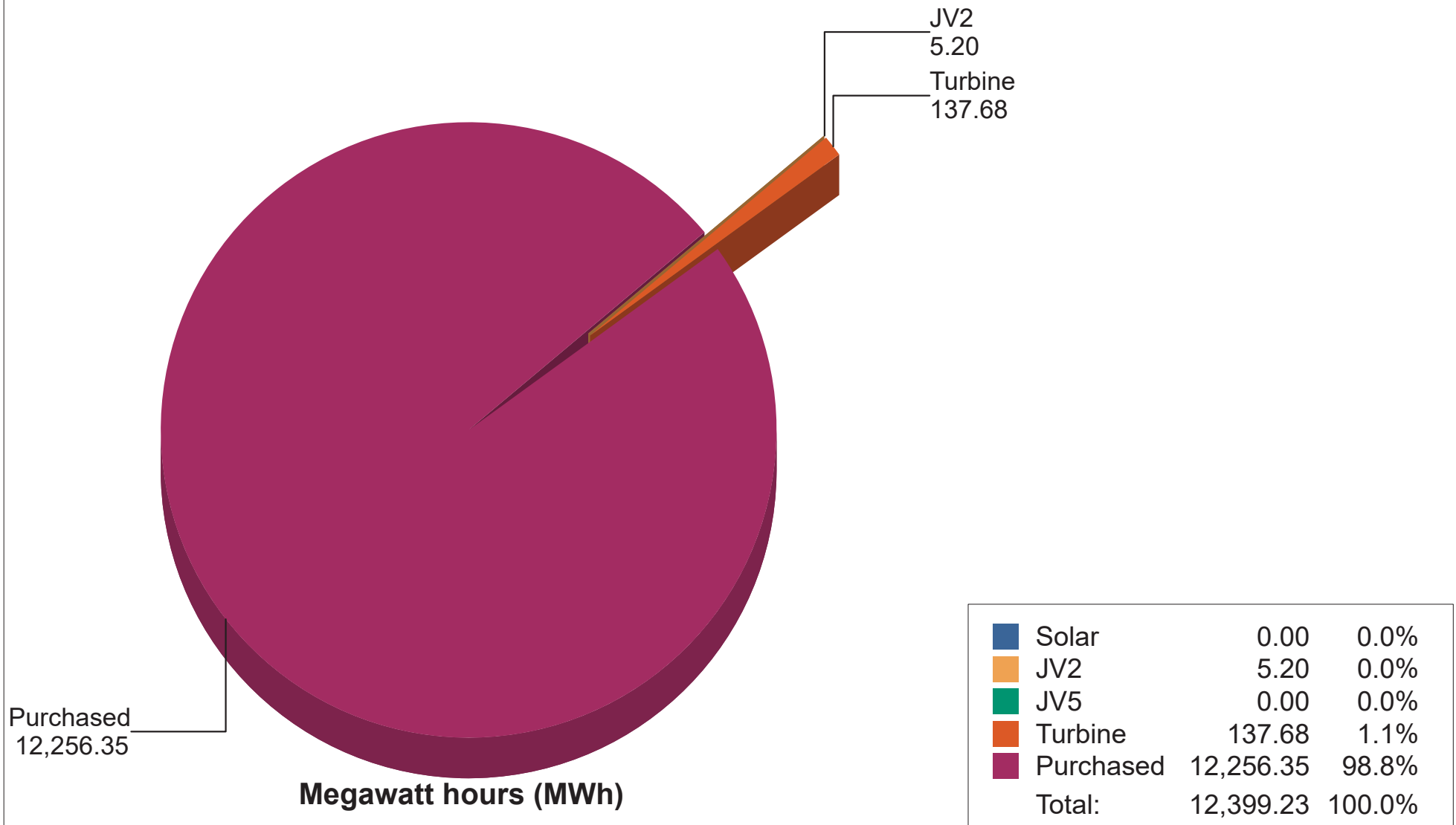


2018 MAX    2018 AVG    2019 MAX    2019 AVG

# Napoleon Power & Light

## Power Portfolio

September 2019





*City of Napoleon, Ohio*

## **BOARD OF PUBLIC AFFAIRS**

Meeting Agenda

**Monday, October 14, 2019 at 6:15 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) Review/Approval of the Power Supply Cost Adjustment Factor for October 2019:  
Power Supply Cost Adjustment (PSCA) 3-month averaged factor \$0.00794;  
JV2 \$0.021949
- 3) Efficiency Smart Agreement
- 4) Update on Condition of Substations.
- 5) Electric Department Reports
- 6) Any other matters to come before the Board
- 7) Adjournment



Roxanne Dietrich  
Interim Clerk of Council



<b>Sheaffer Arrived</b>	Sheaffer arrived at 6:28 pm.
<b>Motion to Approve Entering into Agreement with Okolona Telephone</b>	Motion: Prigge Second: DeWit to approve Entering into a Pole Attachment Agreement with Okolona Telephone Company dba bright.net.
<b>Passed Yea-3 Nay-0</b>	Roll call vote on the above motion: Yea- DeWit, Dr. Cordes, Prigge Nay-
<b>Electric Department Reports</b>	Clapp said there were eleven callouts during the month of August. The substation had a SCADA alarm on the transformer and after investigating it was found that a tiny switch had failed in the controls. While investigating the reason for the alarm, the substation had to be out of service for a couple of weeks. On our tree crew, Jamie Howe went to Knoxville Tennessee for a tree trimming seminar. Our peak load is down 2.4 MW from a year ago, the average load is down 1.37 MW, believe that can be contributed to more efficient appliances we now have. Mazur said our usage in August 2018 was high, this year our peak was at 30.8 MW, the solar field produced higher than projected in July.
<b>Other Matters</b>	Mazur pointed out the Efficiency Smart Agreement expires this year. AMP would like us to renew our contract, next year's contract will focus on companies and people being more energy efficient during the day to keep the rates low. AMP said they have guarantees that will be put into the contract. A representative from AMP will be at the October meeting to give a presentation.
<b>Efficiency Smart Agreement Assigned to BOPA and Electric Committee Oct. Agenda</b>	Bialorucki assigned Efficiency Smart Agreement to the Board of Public Affairs and the Electric Committee for their October 14, 2019 meeting agenda.
<b>Motion to Recess</b>	Motion: Dr. Cordes Second: DeWit to recess Board of Public Affairs meeting at 6:43 pm.
<b>Passed Yea-3 Nay-0</b>	Roll call vote on the above motion: Yea-DeWit, Dr. Cordes, Prigge Nay-
<b>Recess Expired</b>	Motion: Dr. Cordes Second: DeWit to come out of recess and reconvene the meeting at 6:57 pm.
<b>Passed Yea-3 Nay-0</b>	Roll call vote on the above motion: Yea-DeWit, Dr. Cordes, Prigge Nay-
<b>Update on WWTP Phase I Improvements Project</b>	Mazur gave an update on Phase 1 of the Wastewater Treatment Plant (WWTP) Project. Phase I will move the head works building near the entrance of the plant.

### Acquisition of Property

The acquisition of three properties near the entrance of the WWTP were approved at the September 3, 2019 Council meeting. One of the properties has access to St. Rt. 424, another property gives access across the Washington Street paper street. All are vacant lands along the railroad, the City already owns the railroad right-of-way. The third property was residential. We paid almost \$34,000 for approximately 3-1/2 acres. There is a line item for digester cleaning (\$600,000), this is a maintenance item that has not been taken care of for the last 12-15 years and should be part of routine maintenance, now it needs to be cleaned. A buildup of sludge is putting a lot of stress on the equipment to accommodate it.

### Funding

We have received pre-approval from DEFA for a \$12.5 million loan.

### Sludge Disposal

Is an ongoing issue, since the new Water Treatment Plant (WTP) was built, the solids coming from the WTP and having to be handled by the WWTP has nearly doubled. Right now the sludge is being landfilled, we are bypassing the treatment process. There is so much volume coming in, it is difficult for the WWTP to handle it all. Currently the disposal of sludge is being handled within our budget this will be discussed more at budget time. DeWit asked all costs are now on the sewer side for sludge removal? Mazur answered, yes for sludge disposal. The WWTP pays for water; but, the WTP does not pay for wastewater, so in the 2019 budget we factored in the cost of wastewater into the WTP budget about 10% we will keep adding a percentage to the amount each year. DeWit said his concern is with the accounting, we don't sell sewage; but, we do sell water and we don't want to lose money selling water and then have to make it up in units. Dr. Cordes asked if there will be relief. Mazur replied Arcadis did a study, the engineering firm's estimates were grossly under estimated, there is so much volume we cannot get it de-watered quick enough to apply. Dr. Cordes inquired if anyone has come up with anything new that will give relief to which Mazur responded one lagoon has been cleaned, the other two will be cleaned too. Right now some solids are going in the lagoons and some is sent to the WWTP this is a mid-term solution. Dr. Cordes commented this will relieve pressure; but, not the volume. Mazur continued the new stuff in the lagoons has no usefulness, it is not beneficial to the farmers, no one wants it. As for dewatering the solids, we are looking at a screw press that is more efficient than the bell press to press the water out. Pike said this will save on time; but, will not save on cost, it may be another two years before we get to that point. Mazur stated Phase I has three phases: 1A is the digester cleaning and presses estimated at \$600,000, 1B will be asset management estimated at \$4 million and 1C is the head works which is the most substantial piece of the project estimated at \$8 million.

### **Long Term Control Plan (LTCP) Update**

Mazur said the EPA has us under a Long Term Control Plan (LTCP), to date we've done about \$25 -\$30 million in projects and in addition, the EPA had us spending an additional \$31 million that did not include the WWTP. We renegotiated the LTCP with the EPA and most sewer replacement projects will go away, leaving us with the following: Williams Pumping Station Replacement Project (Nagel's bid was \$1.3 million). The biggest thing with the EPA is eliminating the SSOs (sanitary





# 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, *interim* Clerk of Council  
**Date:** October 10, 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, October 14, 2019 at 7:00 pm has been CANCELED due to lack of agenda items.





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## Memorandum

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

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

**Date:** October 10, 2019

**Subject:** Municipal Properties, Building, Land Use and Economic Development Committee – Cancellation

The regularly scheduled meeting of the ***Municipal Properties, Building, Land Use and Economic Development Committee*** for Monday, October 14, 2019 at 7:30 pm has been CANCELED due to a lack of agenda items.

# City of Napoleon Sidewalks and Multi-Use Path Connections Project



## KEY:

**Pink** lines represent existing non-motorized facilities.

**Green** lines represent proposed multi-use path (10ft wide) gap connections or on-street bike lanes.

**Yellow** lines represent proposed sidewalk gap connections.

Proposed Crosswalk locations would likely be LED lit signed crosswalks (see graphic to right)





## AMP Update for Oct. 11, 2019

American Municipal Power, Inc.

Fri 10/11/2019 2:20 PM

To: Roxanne Dietrich <[rdietrich@napoleonohio.com](mailto:rdietrich@napoleonohio.com)>

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### AMP and member communities celebrate Public Power Week

*By Holly Karg - director of media relations and communications*

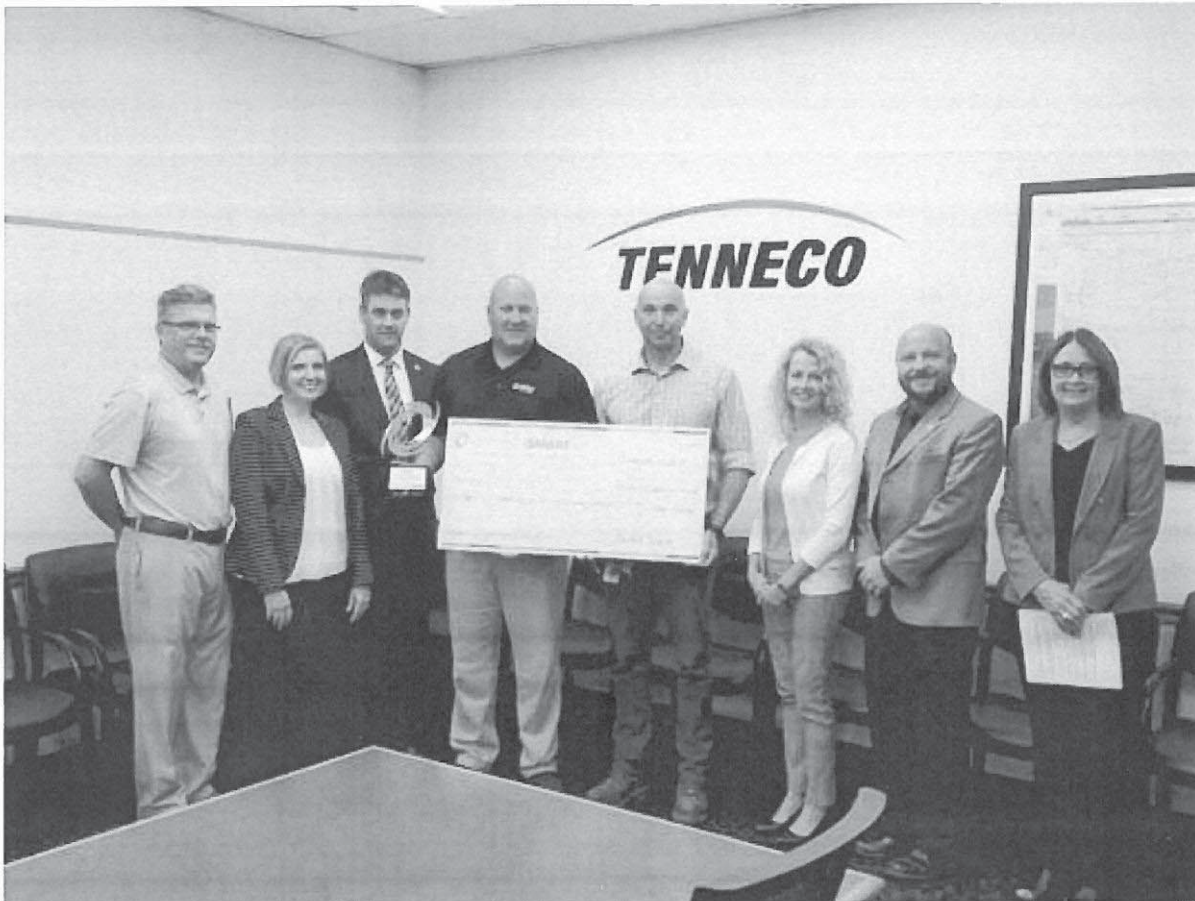
This week, AMP joined the more than 2,000 public power communities across the U.S. in celebrating Public Power Week, Oct. 6-12. Throughout the week, AMP member communities have held events celebrating the importance of public power in their community.

Many AMP member communities signed proclamations and resolutions recognizing Public Power Week, and a statewide proclamation was signed by Ohio Governor Mike DeWine.

At AMP headquarters in Columbus, staff celebrated by holding a Public Power Week cookout, utilizing many food items produced in our member communities.

AMP wants to know how all of our members celebrated Public Power Week this year. Please send any information or photos you would like to share to me at [hkarg@amppartners.org](mailto:hkarg@amppartners.org) or 1111 Schrock Road, Suite 100, Columbus, OH 43229.





*Pictured from left to right: Joel Miller, Executive Director of the Henry County Chamber of Commerce; April Welch, Director of the Henry County Community Improvement Corporation; Jason Maassel, Mayor of Napoleon; Jason Brown, Plant Manager for Tenneco; Joel Smith, Facility Engineer for Tenneco; Lori Siclair, Napoleon City Council Member; Joel Mazur, City Manager of Napoleon; and Joey Boston, Efficiency Smart Key Account Manager.*

Tenneco has worked with Efficiency Smart on several energy efficiency upgrades. Most recently, the manufacturer worked with Efficiency Smart to install high-and-low bay LEDs throughout its offices and plant, along with a new air compressor system. As a result of all of its projects, Tenneco is expected to save 1,941,300 kilowatt-hours (kWh) of energy annually, roughly equivalent to the annual electric use of 239 homes.

Congratulations to all of the recent Ambassador Award recipients for being energy efficiency leaders in their communities!

For more information regarding Efficiency Smart's services, visit [www.efficiencysmart.org](http://www.efficiencysmart.org) or call 877.889.3777.



## Public Power well-represented at Ohio Economic Development Association Annual Summit



*Public Power was well represented during the Ohio Economic Development Association Annual Summit. Participating in a panel discussion on the benefits of Public Power and the creation of AMP's Economic Development Strategic Plan are, left to right: Alexis Fitzsimmons, AMP director of economic and business development; Joe Mazur, City of Napoleon city manager; Jolene Thompson, AMP executive vice president of member services and external affairs; Joe Price, Village of Grafton village administrator; and Corey Bentine, AMP director of key accounts.*

## National Hydropower Association scholarship available to students in AMP member communities

*By Holly Karg*

Students in AMP member communities are eligible to apply for the National Hydropower Association's (NHA) Past Presidents' Legacy Scholarship.

The NHA scholarship is a \$2,500 award for promising young students who demonstrate the academic skills and commitment to help create the next generation of leaders in the hydropower industry. Applications must be submitted by Jan. 2, 2020.

To apply, students must be current college sophomores or juniors who will be college juniors or seniors beginning fall 2020, or graduate students with a minimum cumulative 3.0 grade point average on a 4.0 scale (or equivalent) who are enrolled in a full-time



## SEPTEMBER OPERATIONS DATA

	September 2019	September 2018
Fremont Capacity Factor	68%	82%
Prairie State Capacity Factor	56%	68%
Meldahl Capacity Factor	34%	29%
Cannelton Capacity Factor	37%	32%
Smithland Capacity Factor	44%	7%
Greenup Capacity Factor	47%	29%
Willow Island Capacity Factor	41%	37%
Belleville Capacity Factor	51%	37%
Blue Creek Wind Capacity Factor	19%	18%
JV6 Wind Capacity Factor	13%	7%
Front Royal Solar Capacity Factor	24%	16%
Bowling Green Solar Capacity Factor	26%	24%
Avg. A/D Hub On-Peak Rate	\$33/MWh	\$43/MWh
Prairie State was on planned outage during September 2018 and 2019		
* Fremont capacity factor based on 675 MW rating.		
* PS capacity factor based on 1,582 MW rating.		
* Meldahl capacity factor based on 105 MW rating.		
* Cannelton capacity factor based on 87.6 MW rating.		
* Smithland capacity factor based on 76.2 MW rating.		
* Greenup capacity factor based on 70 MW rating.		
* Willow Island capacity factor based on 44.2 MW rating.		
* Belleville capacity factor based on 42 MW rating.		
* Front Royal Solar capacity factor based on 2.5 MW rating.		
* BG Solar capacity factor based on 20 MW rating.		

### Energy market update

By Jerry Willman - assistant vice president of energy marketing



The November 2019 natural gas contract decreased \$0.016/MMBtu to close at \$2.218 yesterday. The EIA reported an injection of 98 Bcf for the week ending Oct. 4, which was aligned with market expectations of 98 Bcf. The year-ago injection was 91 Bcf. The build compares with the five-year average +89 Bcf. The injection season running total of 2,308 Bcf is much larger than the five-year average of +1,789.

On-peak power prices for 2020 at AD Hub closed yesterday at \$33.82/MWh, which increased \$0.27/MWh for the week.

## On Peak (16 hour) prices into AEP/Dayton hub

Week ending Oct. 11

MON	TUE	WED	THU	FRI
\$25.05	\$25.37	\$25.14	\$28.07	\$25.90

Week ending Oct. 4

MON	TUE	WED	THU	FRI
\$42.41	\$45.39	\$61.20	\$41.79	\$23.11

AEP/Dayton 2020 5x16 price as of Oct. 10 — \$33.82

AEP/Dayton 2020 5x16 price as of Oct. 3 — \$33.55

## AFEC weekly update

By Jerry Willman

The AMP Fremont Energy Center (AFEC) was available for 2x1 operation for the week. PJM dispatched the plant offline on Sunday overnight based on economics. Duct firing operated for 104 hours this week. For the week, the plant generated at an 83 percent capacity factor (based on 675 MW rating).

## Security tip - Amazon, PayPal and Gmail users targeted in recent phishing attacks

By Jared Price - vice president of information technology and CTO



The bad guys are at it again. They're posing as well-known services such as Gmail, Amazon and PayPal so they can bait you into giving up your personal and financial information.

The phishing attack starts off with a common tactic: You receive an email claiming that you need to verify your account. The scammers send their emails from an active domain, which makes it look more

legitimate and makes it easier for them to bypass email security filters. Once you click the button or link in the email, you're stepped through several stages of the attack.

You are first brought to a website that is only used to redirect you to a second page. This helps the hackers get past email filters. From the second page, you're asked to verify that you're not a robot. Once this fake site has confirmed you are not a robot, the real danger begins. On the final phishing page, you are asked to fill in fields with your account credentials, credit card details and other sensitive information. Nothing happens when you click the button to submit your information, but all of your data has already been sent directly to the attacker's email address.

# Ohio Municipal League Legislative Bulletin

## Ohio Municipal League

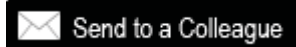
Fri 10/11/2019 2:03 PM

To: Roxanne Dietrich <rdietrich@napoleonohio.com>

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## Legislative Bulletin

**October 11, 2019**

### OML UPDATE AT-A-GLANCE

Here are the top three things you need to know from this past week:

- Lawrence County Auditor Jason Stephens was sworn in this week as the successor to former Rep. Ryan Smith (R - Bidwell) for the 93<sup>rd</sup> House District seat. The House also announced that Harrison City Councilwoman Cindy Abrams has been selected to replace Rep. Louis Blessing (R - Cincinnati) for the 29<sup>th</sup> House District seat.
- The Federal Communications Commission (FCC) will allocate \$112.2 million in funding over the next ten years to help expand broadband to approximately 48,000 rural homes and businesses in nine states, including Ohio.
- Ohio's September revenues exceeded September projections by 2%, bringing in \$37.3 million more in tax revenue than anticipated. This brings the state to a total of \$71.4 million over initial estimates for the first quarter of the fiscal year.

## **GOV. DEWINE ANNOUNCES "STRONG OHIO" PLAN TO CURB GUN VIOLENCE**

This week, Gov. DeWine unveiled more specifics he intends to present to the Ohio General Assembly in an effort to curb violence in the state, in reaction to the mass shootings in Dayton this summer. The legislative plan, yet to be formally introduced, will be called "STRONG Ohio", which stands for "Safety protection orders, Thorough background checks, Rigorous due process, Ongoing help to those in crisis and Greater penalties for gun crimes".

The actual legislation will be sponsored by Sen. Matt Dolan (R - Chagrin Falls) who joined DeWine, Lt. Gov. Husted, Dayton Mayor Whaley, Youngstown Mayor Brown, and others at a press conference Monday. The Governor emphasized that in crafting the legislation he has three ultimate goals: that the language be constitutional, that it saves lives and that it is able to pass the General Assembly. Some legislative leaders have already expressed concern with some of the concepts presented by the governor, but have vowed to work with him when the legislation is introduced.

At the press event, the governor explained that his new plan will no longer include "red flag" language, which are laws allowing for the seizure of a person's guns if the individual is found to be a danger to themselves or others. Instead, the legislation being proposed would expand current "pink slip" laws allowing mental health interventions to drug addicts, alcoholics and those with other mental health concerns. The governor explained that those persons could be held in a mental treatment institution for 72 hours and have their firearms seized during that time.

The proposed plan also will not include the universal background checks for gun purchases that were initially considered. Instead, the plan will allow those who purchase firearms from private dealers to go to a sheriff's office and obtain a "seller's protection certificate" that provides proof to the seller that the purchaser is not restricted from purchasing a firearm. The certificate would be valid for 90 days.

The bill also includes the following provisions:

- Increased penalties for possessing a gun while legally prohibited from possessing a firearm.
- Increased penalties for selling a gun to a minor.
- Increased penalties for "straw" purchases (purchasing a gun for someone who cannot purchase a gun) and knowingly possessing a straw-purchased gun.
- A legal safe harbor for firearms sellers requiring private-sale background checks.
- Require courts and law enforcement agencies to enter protection orders and arrest warrants for specific serious crimes into state and federal law enforcement databases to increase accuracy in background checks.

- Increased options for sentencing in felony cases where a gun was used, brandished or possessed.
- Allow family members of drug-dependent individuals or chronic alcoholics who may be a danger to themselves or others to more easily petition for court-ordered treatment.

The League will report once the official bill language is introduced and will keep our members apprised of the legislation as it moves through the legislative process.

## **HOUSE, SENATE ANNOUNCE NEW COMMITTEE CHAIRS**

This week, the House of Representatives announced new committee chair appointments. Rep. Merrin (R - Monclova Township) will replace now Sen. Schaffer (R - Lancaster) as chair of the House Ways and Means Committee; Rep. Lipps (R - Franklin) will replace Rep. Merrin as chair of the House Health Committee; and Rep. Ginter (R - Salem) will replace former Rep. Arndt (R - Port Clinton) as chair of the House Aging and Long Term Care Committee.

The Senate also announced a new committee chair appointment. Sen. Roegner (R - Hudson) will chair the Senate Ways and Means Committee, succeeding former Sen. Terhar (R - Cincinnati). The League wants to congratulate these legislators on their new appointments, and we look forward to working with them on passing legislation that invests in and strengthens Ohio's economic engines: our cities and villages.

## **OML'S ANNUAL CONFERENCE IS ALMOST HERE**

The League's 2019 Annual Conference is almost here! We hope you've registered to join us from Wednesday, Oct. 23rd to Friday, Oct. 25th at the downtown Renaissance Hotel.

Our Annual Conference will offer the exclusive opportunity to hear from Ohio leaders Dayton Mayor Nan Whaley and Celina Mayor Jeff Hazel, who will be discussing the timely and relevant topic on community crisis management. Ohio's cities and villages are learning how to navigate the shifting landscape for keeping our communities safe, and this is a session you won't want to miss. Local leaders and their staff will also hear firsthand how Governor DeWine's administration is working alongside Ohio's municipalities from Director of the Development Services Agency and former Findlay Mayor Lydia Mihalik.

We are very excited to give our attendees the opportunity to hear from Leon Andrews, Director for the National League of Cities' Race, Equity and Leadership (REAL) initiative to discuss strategies for creating a more inclusive and equitable community. REAL offers communities the tools and resources they need to build safe communities where all races and cultures thrive in every area of life.



Our keynote speaker this year is nationally-renowned communications expert Jan Hargrave, who has been featured on national television programs and worked with some of the most recognizable companies as well as many world leaders on developing successful communication techniques. You can learn more about all of our featured speakers [HERE](#).

Educational workshops on current issues, as well as roundtables with other municipal leaders, will give attendees the chance to network, build valuable relationships and exchange best practices. The conference will host a large variety of vendors with programs and products that may benefit your municipality. And it wouldn't be a League conference without some entertainment: Thursday night will feature both a Casino Night as well as a raffle prize drawing.

You can find the updated conference agenda [HERE](#) and register [HERE](#). We look forward to seeing you there!

## **OHIO'S RESEARCH INITIATIVE FOR LOCALS ACCEPTING RESEARCH IDEAS**

Ohio's Research Initiative for Locals (ORIL) is now accepting research ideas for their upcoming Fiscal Year 2021 program and is extending the invitation beyond local governments. The ORIL Board has expanded the criteria for submitting ideas. In addition to Ohio's local public agencies (e.g.: villages, townships, cities, counties, MPOs and RTPOs), ideas may now also be submitted by university researchers, students, consultants, associations, and ODOT staff. All ideas must be applicable to the local transportation system and must be research.

The ORIL Board will review all ideas submitted and select those that propose the greatest benefit for Ohio. Selected ideas will be developed into Requests for Proposals, which will be posted for response from the transportation research community in March 2020. Research projects may begin any time after July 2020.

If you are not sure that you want to formally submit an idea or need help refining it, you can post the idea to the ORIL Idea Discussion site to get feedback from colleagues. This site provides those interested in local-focused transportation research an opportunity to share ideas, discuss issues and provide input on topics that could potentially become research projects. For more information on the ORIL Idea Discussion Site, click [HERE](#).

Research ideas may be submitted online. To access the Idea Submission Form and get additional information, click [HERE](#). Idea submissions must be received by **November 1, 2019** in order to be considered.

If you have any questions, please contact the ORIL program at [ORIL@dot.ohio.gov](mailto:ORIL@dot.ohio.gov) or via phone at 614-644-8135 or 614-466-3029.

## COMMITTEE RECAP: BILLS IMPACTING MUNICIPALITIES

Here are the bills affecting municipalities that received committee hearings this week:

- **HB 264 - INFRASTRUCTURE LOANS.** Sponsored by Rep. Wilkin (R - Hillsboro0 and Rep. O'Brian (D - Warren), would allow the Ohio Water Development Authority to provide for the refinancing of loans for certain public water and waste water infrastructure projects. During its second hearing before the House State and Local Government Committee, proponents, including the League, testified in support of the bill. You can read the testimony in full [HERE](#). (Link: <https://bit.ly/2EIKUKl>)
- **HB 308 - PTSD COVERAGE.** Sponsored by Rep. Patton (R - Strongsville), is concerning workers' compensation and disability retirement for peace officers, firefighters, and emergency medical workers diagnosed with post-traumatic stress disorder arising from employment without an accompanying physical injury. During its first hearing before the House Insurance Committee, the bill's sponsor explained It would make worker's compensation benefits available to first responders diagnosed with post-traumatic stress disorder (PTSD) without an accompanying physical injury. The League is still looking into this legislation. (Link: <https://bit.ly/2IFEbTL>)
- **HB 330 - WORKERS' COMPENSATION.** Sponsored by Rep. Patton (R - Strongsville), is regarding charging workers' compensation experience in firefighter cancer claims. During its first hearing before the House Insurance Committee, the bill's sponsor said the bill would move the cost of providing worker's compensation benefits to firefighters with cancer contracted presumably while performing official duties from municipalities to the Bureau of Worker's Compensation. The League is supportive of this legislation.(Link: <https://bit.ly/2oxNZIj>)
- **HB 295 - ELECTRIC SCOOTERS.** Sponsored by Rep. Hoop (R - Napoleon), would establish requirements governing low-speed electric scooters. During its third hearing before the House Transportation and Public Safety Committee, no opponents testified against the bill. The League is neutral on this legislation.(Link: <https://bit.ly/30I0H4t>)
- **SB 33 - CRITICAL INFRASTRUCTURE.** Sponsored by Sen. Hoagland (R - Adena), would modify certain criminal offenses with respect to critical infrastructure facilities and to impose fines and civil liability for damage to a critical infrastructure facility. During its fourth hearing before the House Public Utilities Committee, both proponents and opponents testified on the bill. Amendments are expected in the near future. The League is supportive of this legislation.(Link: <https://bit.ly/2GSjRN8>)



- **HB 10 - DRUG POLICY OFFICE.** Sponsored by Rep. Brown (D - Canal Winchester) and Rep. Stoltzfus (R - Minerva), would establish the Governor's Office of Drug Policy and make an appropriation. During its third hearing before the Senate General Government and Agency Review Committee, the assistant chief of the Whitehall Division of Fire said the bill correctly focuses on overall addition issues rather than individual substances. The League is supportive of this legislation. (Link: <https://bit.ly/2YzTtP7>)

## **BILLS IMPACTING MUNICIPALITIES PASSED BY SENATE**

Here are the bills affecting municipalities that were passed by the Senate this week:

- **SB 52 - CYBER SECURITY.** Sponsored by Sen. Gavarone (R - Bowling Green), would create the civilian cyber security reserve forces, make the Secretary of State a member of the Homeland Security Advisory Council, require the Secretary of State to appoint a chief information security officer, require the boards of elections to audit election results, and make an appropriation. The Senate concurred upon the House amendments unanimously. The League is supportive of this legislation.

(Link: <https://bit.ly/2GS59FJ>)

## **COMMITTEE SCHEDULE FOR THE WEEK OF OCTOBER 14, 2019**

**Tuesday, October 15, 2019**

### **HOUSE TRANSPORTATION AND PUBLIC SAFETY**

Tue., Oct. 15, 2019, 11:00 AM, Hearing Room 114

Rep. Green: 614-644-6034

**HB295\*\***

ELECTRIC SCOOTERS (HOOPS J) To establish requirements governing low-speed electric scooters.

**Fourth Hearing, All Testimony, POSSIBLE VOTE**

**CHECK OUR WEBSITE MONDAY FOR ANY CHANGES TO THE COMMITTEE SCHEDULE**

## **Ohio Municipal League Meetings & Trainings**

<a href="#"><u>OML Annual Conference</u></a> <b>October 23 ~ 25, 2019</b> <b>Renaissance Hotel, Downtown Columbus</b>	<a href="#"><u>Registration Information</u></a>

<b><u>MFOAO Annual Fall Conference</u></b> <b>October 23 &amp; 24, 2019</b> <b>Renaissance Hotel, Downtown Columbus</b>	<b><u>Registration Information</u></b>
<b><u>Mayors Court Refresher Trainings</u></b> <b>October 25 &amp; November 15</b>	<b><u>Registration Information</u></b>

### **Ohio Municipal League**

#### **Legislative Inquires:**

[Kent Scarrett, Executive Director](#)  
[Edward Albright, Deputy Director](#)  
[Ashley Brewster, Director of Communications](#)  
[Thomas Wetmore, Legislative Advocate](#)

#### **Website/Bulletin Issues:**

[Zoë Wade, Office Manager](#)

Ohio Municipal League, 175 S. Third Street, Suite 510, Columbus, OH 43215

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## AMP Update for Oct. 4, 2019

American Municipal Power, Inc.

Fri 10/4/2019 2:57 PM

To: Roxanne Dietrich <rdietrich@napoleonohio.com>

Having trouble viewing this email? [Click here to view web page version](#)



### Public Power Week is here

*By Holly Karg - director of media relations and communications*

Public Power Week is a great opportunity for public power utilities to promote the distinct advantages that public power offers consumers and residents. Since its creation in 1986 by the American Public Power Association (APPA) and its members, Public Power Week has always been held on the first full week in October - this year it will be held Oct. 6-12. The nationwide program celebrates the importance of public power to local citizens and other public constituencies.

We have prepared materials to help you spread the word about the benefits of public power during Public Power Week and throughout the entire year.

Please check out the following links:

- [Public Power Week Toolkit](#) (login required)
- [Benefits of Public Power Toolkit](#) (login required)
- Video: [What is Public Power](#), feel free to share this video with your customers and stakeholders
- [Public Power Week resources page](#)



The APPA also has information and resources available to assist you in educating your community about electricity basics and public power. That information can be found [here](#).

When posting online, be sure to use the hashtags: #PublicPowerWeek, #WeArePublicPower and #PublicPower, and please tag AMP in all your Public Power Week posts on [Facebook](#), [Twitter](#), [LinkedIn](#) and [Instagram](#).

In previous years, AMP member communities have celebrated Public Power Week through open houses, plant tours, luncheons, poster contests and visits to local schools. We encourage you to engage with your consumers, and we'd like to hear what you are doing this year in your community for Public Power Week so we can share these successes with other members and include some on AMP's social media channels. Please send information, including photos, to me at [hkarg@amppartners.org](mailto:hkarg@amppartners.org).

## New leadership for the AMP Board of Trustees

*By Marc Gerken, P.E. - president/CEO*

Jeff Brediger, director of utilities for the City of Orrville was elected Chair of the 21-member AMP Board of Trustees during the 2019 AMP/OMEA Annual Conference in Columbus. During the Board's annual reorganizational meeting, other officers elected included Vice Chair: Robert Patrick, Wadsworth public service director; Secretary: Kevin Maynard, Bryan director of utilities; and Treasurer: Patrick McCullar, Delaware Municipal Electric Corporation (DEMEC) president/CEO.

Brediger has served as a member of the AMP Board of Trustees since 2009, chairing key committees and serving as an officer. He succeeds chair Steve Dupee, who will remain as a member of the Board representing Wellington. The Board chair's role is subject to a five-year term limit.



AMP is governed by the Board of Trustees that consists of 21 AMP members, 20 elected by the members or subgroups of members and the AMP member DEMEC, on behalf of its nine member systems. Each such elected member then appoints a person to represent it on the Board. The President/CEO and General Counsel are employed by the Board of Trustees and are ex-officio members of the Board.

## Paul Beckhusen joins AMP as senior vice president of power supply operations and energy marketing

*By Pamala Sullivan - executive vice president of power supply and generation operations*



AMP is pleased to announce that Paul Beckhusen has joined AMP as senior vice president of power supply operations and energy marketing.

Beckhusen brings years of public power experience to AMP, having previously served as general manager to the Michigan South Central Power Agency and as director for the Coldwater Board of Public Utilities (CBPU). In addition, he served as a member of the AMP Board of Trustees from 2006 to 2019, and as a member of the American Public Power Association Board of Directors from 2011 to 2014. This extensive background provides him with an unmatched level of expertise in power supply planning.

"AMP is very fortunate to be welcoming Paul to our staff," said AMP President/CEO Marc Gerken. "He brings with him a wealth of knowledge that includes nearly two decades of experience in utility operations. Having served with him on the AMP Board of Trustees for many years, I can say with confidence that Paul will be a great addition to the organization."

In his new position, Beckhusen will oversee the planning, strategy development, negotiation and implementation of power supply, energy and fuel matters.

Beckhusen has worked in the public power sector since first joining the CBPU as electric operations manager in 2000. He holds a bachelor's degree in electrical engineering from Trine University.

## Focus Forward Distributed Energy Resource Rate Design: Steps and Lessons Learned document now available

*By Erin Miller*

The final *Distributed Energy Resource (DER) Rate Design: Steps and Lessons Learned* document is now available for download on the [Focus Forward](#) page of the [Member Extranet](#) (login required). It can be found under, "Focus Forward Member Toolkits."

The Focus Forward Advisory Council recommended the creation of this document as an extension of the [2017 Focus Forward Member Toolkit: Preparing for a Distributed Energy Future](#). This supplemental resource provides steps and lessons learned to help members design rates that are equitable, ensure cost recovery and fairly compensate DER customers (i.e. residential, commercial and/or industrial customers with rooftop solar).



This document condenses the Focus Forward Member Toolkit's rate design guide into five easy steps and includes the following:

- Summarized cost recovery rate options for all customer classes
- Examples of metering and billing options specific to DER customers
- Experiences of fellow members
- Links to resources

AMP offers special appreciation to the following contributors: Courtney & Associates, GDS Associates Inc., members of the Focus Forward Advisory Council and the AMP members of Ephrata, Paducah, Oberlin, Minster, Hamilton and Wadsworth.

If you would like to join the Focus Forward Advisory Council or have questions, please contact me at [emiller@amppartners.org](mailto:emiller@amppartners.org) or 614.540.1019.

## September 2019: Hot temperatures, cool prices

*By Mike Migliore - vice president of power supply planning*

Although September 2019 will go down as one of the hottest months on record throughout the eastern U.S., natural gas prices still remained low and kept power prices relatively cheap. Average daily prices were over \$6/MWh lower than in September 2018, although the market did settle higher than in August 2019. Day-ahead prices hit their maximum of \$72 on three of the hotter days in the month, Sept. 11, 12 and 30. Real-time prices exceeded \$100/MWh for 13 hours during the month. For the month, real-time prices finished \$3/MWh higher than day-ahead prices, as PJM underestimated load during many days. Typically, day-ahead and real-time price averages are similar.

AVERAGE DAILY RATE COMPARISONS			
	September 2019 \$/ MWh	August 2019 \$/ MWh	September 2018 \$/ MWh
A/D Hub 7x24 Price	\$27.13	\$24.59	\$33.56
PJM West 7x24 Price	\$26.15	\$24.30	\$32.71
A/D to AMP-ATSI Congestion/Losses	-\$1.31	-\$0.84	\$2.00
A/D to Blue Ridge Congestion/Losses	\$0.43	-\$0.13	-\$0.04
A/D to PJM West Congestion/Losses	-\$0.98	-\$0.29	-\$0.86
PJM West to PP&L Congestion/Losses	-\$5.99	-\$2.98	-\$5.80
MISO to A/D Hub Congestion/Losses	\$3.18	\$1.06	\$2.88

## Energy market update

*By Jerry Willman - assistant vice president of energy marketing*

The November 2019 natural gas contract increased \$0.082/MMBtu to close at \$2.329 yesterday. The EIA reported an injection of 112 Bcf for the week ending Sept. 27, which was above market expectations of 107 Bcf. The year-ago injection was 91 Bcf and the prior week's increase was 102 Bcf. The build compares with the five-year average +83 Bcf. The injection brought total U.S. working gas supply to 3.317 Tcf, a deficit of 18 Bcf (two percent) versus the five-year average and 465 Bcf above a year ago.

On-peak power prices for 2020 at AD Hub closed yesterday at \$33.55/MWh, which decreased \$0.03/MWh for the week.

On Peak (16 hour) prices into AEP/Dayton hub				
Week ending Oct. 4				
MON	TUE	WED	THU	FRI
\$42.41	\$45.39	\$61.20	\$41.79	\$23.11
Week ending Sept. 27				
MON	TUE	WED	THU	FRI
\$33.15	\$28.63	\$30.19	\$32.47	\$30.13
AEP/Dayton 2020 5x16 price as of Oct. 3 — \$33.55				
AEP/Dayton 2020 5x16 price as of Sept. 26 — \$33.58				

## AFEC weekly update

*By Jerry Willman*

The AMP Fremont Energy Center (AFEC) took CT unit one offline for maintenance last weekend. The plant returned to 2x1 operation on Monday and remained online for the balance of the week. Duct firing operated for 71 hours this week. For the week, the plant generated at an 72 percent capacity factor (based on 675 MW rating).

## School bus funding opportunity - U.S. EPA Diesel Emissions Reduction Act (DERA)

*By Erin Miller - director of energy policy and sustainability*

### Summary

The U.S. Environmental Protection Agency (EPA) announced a funding opportunity for school bus fleets that serve public schools. Winners will be chosen via lottery and provided \$15,000-\$20,000 per bus to assist in replacing old diesel school buses with new school buses meeting clean emission standards, including those powered by electricity. EPA anticipates awarding over \$10 million in this funding opportunity.

For details and eligibility criteria, [click here](#). For questions, email [CleanDiesel@epa.gov](mailto:CleanDiesel@epa.gov).

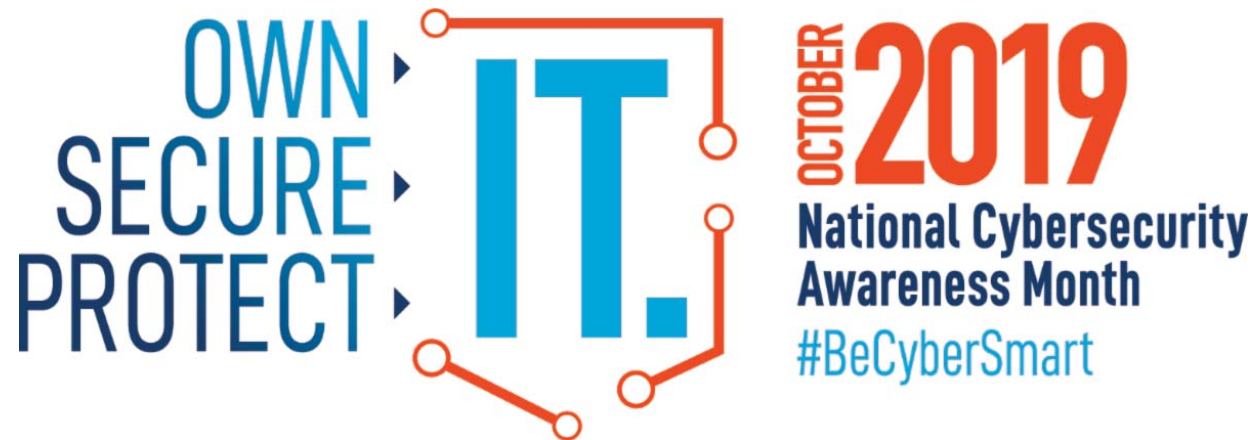


For more information on electric school buses see this [article](#) in Schoolbus Fleet magazine (including a list of electric school bus offerings and battery capacity).

#### Important Dates

Sept. 30, 2019	Program opens. EPA begins accepting application submissions.
Oct. 7, 2019, 3-4 p.m. EST	Application webinar (click <a href="#">here</a> for details).
Oct. 30, 2019, 4 p.m. EST	Deadline for emailing applications with scans of bus titles and registrations to <a href="mailto:CleanDieselRebate@epa.gov">CleanDieselRebate@epa.gov</a> .
January 2020 (estimated)	EPA posts selectees and waiting list online and emails official selection letters to selectees.
April 2020 (estimated)	Deadline for submitting purchase orders for replacement buses.
September 2020 (estimated)	Deadline for submitting documentation of delivery of replacement buses and scrapping of old buses. EPA will send rebate payment within one month of receipt of complete materials.

If you are interested in joining the Focus Forward Advisory Council, have questions or need additional information, please contact me at [emiller@amppartners.org](mailto:emiller@amppartners.org) or 614.540.1019.



## October is Cybersecurity Awareness Month!

Welcome to National Cybersecurity Awareness Month 2019! Held every October, National Cybersecurity Awareness Month (NCSAM) is a collaborative effort between government and industry to ensure every American has the resources they need to stay safe and secure online while increasing the resilience of the Nation against cyber threats. The Cybersecurity and Infrastructure Security Agency (CISA) and the National Cyber Security Alliance (NCSA) co-lead NCSAM. This year's overarching theme is "**OWN IT. SECURE IT. PROTECT IT.**" NCSAM will emphasize the role each individual plays in online safety and stress the importance of taking proactive steps to enhance cybersecurity at home and in the workplace.

- **OWN IT** - Understand your digital profile. Internet-based devices are present in every aspect of our lives: at home, school, work and on the go. Constant connection provides opportunities for innovation and modernization, but also presents opportunities for potential cybersecurity threats that can compromise your most important personal information. Understand the devices and applications you use every day to help keep you and your information safe and secure.
- **SECURE IT** - Secure your digital profile. Cybercriminals are very good at getting personal information from unsuspecting victims, and the methods are getting more sophisticated as technology evolves. Protect against cyber threats by learning about security features available on the equipment and software you use. Apply additional layers of security to your devices - like Multi-Factor Authentication - to better protect your personal information.
- **PROTECT IT** - Maintain your digital profile. Every click, share, send and post you make creates a digital trail that can be exploited by cybercriminals. To protect yourself from becoming a cybercrime

victim you must understand, secure and maintain your digital profile. Be familiar with and routinely check privacy settings to help protect your privacy and limit cybercrimes.

To be a part of the conversation or contribute your voice and resources to NCSAM use the social media hashtags #BeCyberSmart and #CyberAware.



## **AMP welcomes Shelli Clark as staff attorney**

*By Lisa McAlister - senior vice president and general counsel for regulatory affairs*

Shelli Clark joined AMP on Sept. 30 as staff attorney. In this role, Clark is responsible for providing legal counsel to AMP and its affiliates, and assisting AMP's staff with various legal matters including primary responsibility for form-based agreements.

Prior to joining AMP, Clark served as an associate with Taft, Stettinius and Hollister, and then as paralegal for Whitt Sturtevant. She holds a bachelor's degree from Wittenberg University and a Juris Doctor from The Ohio State University Michael E. Moritz College of Law.



Please join me in welcoming Shelli to AMP!

## **Presentations from Conference available on member extranet**

*By Jodi Allalen - member events and programs coordinator*

Members can now access [presentations](#) from the 2019 AMP/OMEA Annual Conference on the [member extranet](#) (login required) as seen in the picture below.

If you have questions about finding or downloading presentations, please contact Bethany Kiser at 614.540.0945 or [bkiser@amppartners.org](mailto:bkiser@amppartners.org).

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Learn from your office! Individual webinars are \$109 (or sign up for a series at a discounted rate). Register today at [www.PublicPower.org](http://www.PublicPower.org) under Education & Events. Non-members can enter coupon code **AMP** to receive the member rate.

- The Rural Utilities Service: A Strategic and Financial Partner for Municipal Electric Systems: **September 26**
- Deploying Mobile Workforce Technologies for Optimized Field Operations: **October 16**

Check the schedule and register at [www.PublicPower.org](http://www.PublicPower.org) under the Education & Events tab. Webinars are recorded, in case you can't attend the live version.



## Classifieds

Members interested in posting classifieds in Update may send a job description with start and end advertisement dates to [zhoffman@amppartners.org](mailto:zhoffman@amppartners.org). There is no charge for this service.

### Borough of Wampum seeks applicants for public works employee

The Borough of Wampum is seeking applicants for the full time position of public works employee. Applications must be received by Oct. 10. The job requires knowledge in water and wastewater, as well as the electric line field. The applicant should have experience with machinery used in the day-to-day operation of the borough, i.e. backhoe, dump truck, bucket truck, etc., along with knowledge of road maintenance. A high school diploma or equivalent, valid driver's license and background check are required. The job will pay an hourly salary plus benefits. The work week will be 40 hours plus possible overtime.

The employment application can be found [here](#) and should be submitted to the borough along with a resume. If applying in person, the borough office is located at 355 Main St. Ext., Wampum and the office hours are Monday-Friday 8:00 a.m-3:00 p.m. The mailing address is P.O. Box 65, Wampum, PA 16157. Wampum Borough is an equal opportunity employer.

## **City of Marshall seeks applicants for director of public services**

The City of Marshall is seeking applicants for the position of director of public services (\$70,000-\$80,000). Position incumbent is responsible for the overall administration, coordination and management of water, wastewater, street, cemetery and park operations including infrastructure maintenance and development. Ensures that the public receives safe and desirable use of the city infrastructure and basic services. Supervises all department personnel.

The successful candidate will have eight to 10 years of experience in public works management and a four-year college degree; high degree of computer literacy; strong communication, analytical and supervisory skills. A full job description is available at [www.cityofmarshall.com](http://www.cityofmarshall.com).

Submit letter of interest and resume to [HumanResources@cityofmarshall.com](mailto:HumanResources@cityofmarshall.com). Application deadline Oct. 6. EOE M/F/H/V

## **Central Virginia Electric Cooperative (CVEC) seeks applicants for two positions**

### **Power supply specialist**

The [Central Virginia Electric Cooperative](#) (CVEC) is seeking an experienced power supply specialist (\$75,000-\$92,000) to provide oversight and leadership to optimize the CVEC power supply portfolio in alignment with CVEC power supply strategic plan. Assure adequate, reliable, competitively priced electricity is available to all members. Manage ancillary power costs to minimize impact on retail rates. Assist COO with overall data analysis and cost analysis of projects and processes.

This position is responsible for: accuracy of monthly power invoices from suppliers, generation resources and the PJM Regional Transmission Operator (RTO). Analyzing data from PJM RTO reporting system and generating monthly power supply purchase reports. Participating in power supply related meetings with agencies supporting the development of CVEC's power supply portfolio. (AMP, Blue Ridge Power Agency, PJM, SEPA). Representing CVEC as voting delegate in generation resource participant meetings and other agency meetings. Monitoring and reporting PJM Regional Transmission Operator regulation changes and filings with the Federal Energy Regulatory Commission (FERC). Working with power supply consultants on power purchase arrangements and planning the power supply portfolio. Working with legal counsel to coordinate the execution, amendment and tracking of power purchase contracts. Scheduling energy purchase live pricing with consultants. Working with engineering and operations regarding the development of behind the meter generation and load control capabilities. Leading the operation of demand management and transmission/capacity cost control programs. Monitoring, recording and reporting the results. Monitoring system loads during transmission and capacity peak hours and working with agencies providing peak hour notification. Utilizing PJM market data to develop monthly billing for large power market rate customers. Monitoring and evaluating the various PJM markets, reporting requirements, and settlement practices. Serving as PJM Certified Account Manager (CAM) to manage employee and supplier access to CVEC's PJM account information. Managing CVEC's Generation Asset Tracking System (GATS) account to monitor, retire, and sell Renewable Energy Credits (REC's) generated by solar resource contracts. Reviewing energy scheduling reports and manage contract of power supply scheduling services. Working with consultant to determine bids in the Financial Transmission Right (FTR) auctions. Supporting other departments in performing data analysis of customer load data, electric system reliability data, metering data, construction and maintenance cost data.

Interested applicants can click [here](#) for more information and to submit application and resume.

### **Electrical engineer**

CVEC is seeking an experienced electrical engineer (\$74,000-\$118,000) to research, develop, support, operate, and test power delivery and monitoring equipment and systems; and support the development of system planning documents.

Key job responsibilities include: Provide technical support for the installation and operation of SCADA, AMI and other utility monitoring and control systems. Assist in the development and evaluation of technical specifications and bid documents necessary for the procurement of equipment and services to support system operations. Provide engineering and technical support in the troubleshooting, calibrating, programming, and testing of recloser controls, regulator controls, and protective relays. Investigate residential, commercial, and industrial power quality issues. Assist operations personnel with the installation of power quality monitoring equipment. Review power quality data as needed and recommend corrective actions to resolve problems. Provide engineering and technical field support for SCADA system operation, software applications, and sectionalizing projects. Develop and maintain SCADA diagrams, displays, databases, command sequences, and alarm and messaging services. Work with System Operators to continuously improve the SCADA user interface for safer and more efficient operation. Perform the data gathering and analysis necessary in the development of planning documents such as construction work plans, long range plans, load forecasts, sectionalizing studies, and various other engineering studies necessary for long- and short-range system planning and construction. Assist with the data gathering, evaluation, and development of solar, battery storage, and other specialized projects. Assist with the development and implementation of voltage reduction/optimization studies, and system feeder optimization studies. Develop sectionalizing schemes to minimize protection zones and optimize device coordination for improved reliability. Review net-metering interconnection requests, perform field inspections of new systems, and maintain records of net metering accounts. Respond to member requests for information and assistance on distributed generation. Interface with equipment vendors as needed for material procurement, technical assistance, and support. On call for outage restoration and supervision. Assist outage response personnel to determine courses of action and make decisions regarding priorities. Assist with developing training programs and materials.

Interested applicants can click [here](#) for more information and to submit application and resume.

## **City of Marshall seeks applicant for assistant director of electric utilities**

The City of Marshall is a quaint Norman Rockwell style community with a population of 7,068 in lower, central Michigan. Located less than one hour from the campuses of the University of Michigan and Michigan State University, two hours from Detroit and beautiful Lake Michigan, and three hours from Chicago. The City has installed a fiber to the premise system to every property in the city with symmetrical speeds up to 10 mbps.

The community is seeing unusual growth with over \$1 billion of industrial growth. Click [here](#) to view the Choose Marshall video. Located at the intersection of I-94 and I-69, the crossroads of international highways, the city is preparing for large industrial and residential growth with a 1,000-acre mega industrial site. The downtown district is 97 percent commercially occupied. The city has the largest National Historic Landmark District in Michigan with many neighborhoods of historic homes.

In the next three years, it is anticipated a peak-demand growth from 23 MW to 123 MW. The city will be constructing infrastructure to meet this demand. A privately developed dual unit 500 MW gas fired power plant is proposed in the city. A complete job description can be found at [www.cityofmarshall.com](http://www.cityofmarshall.com)

Qualifications for the Assistant Director of Electric Utilities position include a degree in electrical engineering or a closely-related field, and a minimum of three to five years of experience working for an electric utility with supervisory or executive leadership responsibilities. A State of Michigan licensed professional engineer desired. Annual salary of \$80,000 with excellent benefits.

To apply for this position, submit a cover letter, resume and professional references to [HumanResources@cityofmarshall.com](mailto:HumanResources@cityofmarshall.com).

The City of Marshall is an Equal Opportunity Employer. Position open until filled.

## **Opportunities available at AMP**

AMP is seeking applicants for the following positions:

Energy settlement analyst

IT business manager