

# AUGUST 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
				4:00 pm Special Civil Service Commission		
6	7 6:15 pm Technology Committee	8 5:00 pm Planning Commission	9	10	11	12
	7:00 pm City Council					
13	14 6:30 pm Electric Committee & BOPA	15	16	17	18	19
20	21 6:00 pm-Parks Rec Committee	22	23	24	25	26
	6:00 pm-Tree Comm.	4:30 pm – Civil Service				
	6:15 pm-Ad-hoc Comm on Strategic Vision					
	7:00 pm – City Council					
27	28 6:30 pm- Finance & Budget Comm.	29	30 6:30 pm - Parks & Rec Board	31		
	7:30 pm - Safety & Human Resources					

*City of Napoleon, Ohio*

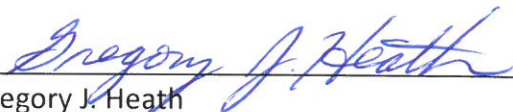
## **ELECTRIC COMMITTEE**

Meeting Agenda

**Monday, August 14, 2017 at 6:30 pm**

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

- 1) Approval of the Minutes from July 10, 2017 *(In the absence of any objections or corrections, the Minutes shall stand approved).*
- 2) Review/Approval of the Power Supply Cost Adjustment Factor for August, 2017:  
PSCAF – three (3) month averaged factor \$0.01047  
JV2 \$0.022370  
JV5 \$0.022370
- 3) Discussion on Transmission Operator for Northside Substation.
- 4) Electric Vehicle Rebate.
- 5) Electric Department Reports.
- 6) Any other matters to come before the Committee.
- 7) Adjournment.



Gregory J. Heath  
Finance Director/Clerk of Council



## Other Matters

Mazur stated the biggest item happening at AMP is the Smithland Hydro Plant is on line. This is the final hydro plant and could be one reason we are seeing in upswing in the PCAF.

There has been a Federal rule change that requires us to become a transmission operator, right now Napoleon is a distribution provider, the reason for the change to a transmission operator is because of the 138 kv line coming into the Northside substation that we own and operate. Three other communities, Wadsworth, Hudson and Cuyahoga Falls are going through the same thing. As a transmission operator we would have to have a twenty-four hour operation center, there would need to be a response staff that would be available if called, it would not need to be local, we could share. The people manning the center will have to be licensed operators, it will be expensive and time consuming to get the people trained, the cost would be approximately \$70,000 and you will need four trained people. Gridforce could do the job at \$10,000 a month per unit. Another option is to sell the substation to another utility operator. It is not our desire to sell, it is a desirable asset. AMP is not interested they are on the generation side and do not have any transmission assets.

Dr. Cordes asked if there is a way to get an exemption or have the law changed. Mazur replied that would be highly unlikely as this is a federal requirement.

Another option is that we could have a third party run our transmission.

Dr. Cordes suggested maybe Napoleon and the other three communities could go together and do distribution thing.

DeWit asked when were we notified they will be enforcing the law.

Clapp said we were up for an audit and had to send them information and they saw in the survey we had a 138kv and asked "what are we going to do about that". We have to give them an update every month on what we are doing.

Baer asked what do you mean by time – months, years?

Mazur answered months.

Clapp said they are forcing us to have everything in place in three months, we have to give them a plan and they will either approve or disapprove that plan.

DeWit said you cannot train four people in three months and buy all the equipment.

Baer stated if we are in the process of researching this item, it should go on the agenda next month for this committee and the BOPA.

### Motion to Adjourn Electric Committee Meeting

Motion: Sicalir

Second: Baer

To adjourn the Electric Committee meeting at 6:56 pm.

**Passed**  
**Yea-2**  
**Nay-0**

Roll call vote on the above motion:

Yea-Siclair, Baer

Nay-

**Approved**

August 14, 2017

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Dan Baer, Acting Chair



**City of Napoleon, Ohio**


**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		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
Jan '16	Mar '16	14,813,772	\$ 1,060,489.73	41,508,827	\$ 2,863,552.86	\$ 0.06899	\$ (0.07194)	\$ (0.00295)	\$ (0.00317)
Feb '16	Apr '16	13,333,740	\$ 1,012,584.64	41,782,091	\$ 2,936,844.01	\$ 0.07029	\$ (0.07194)	\$ (0.00165)	\$ (0.00177)
Mar '16	May '16	12,975,047	\$ 1,017,837.14	41,122,559	\$ 3,090,911.51	\$ 0.07516	\$ (0.07194)	\$ 0.00322	\$ 0.00346
Apr '16	June '16	12,132,975	\$ 897,981.75	38,441,762	\$ 2,928,403.53	\$ 0.07618	\$ (0.07194)	\$ 0.00424	\$ 0.00456
May '16	July '16	12,603,253	\$ 976,900.73	37,711,275	\$ 2,892,719.62	\$ 0.07671	\$ (0.07194)	\$ 0.00477	\$ 0.00513
June '16	Aug '16	13,839,770	\$ 1,068,079.71	38,575,998	\$ 2,942,962.19	\$ 0.07629	\$ (0.07194)	\$ 0.00435	\$ 0.00468
July '16	Sep '16	14,844,510	*\$ 1,080,619.47	41,287,533	\$ 3,125,599.91	\$ 0.07570	\$ (0.07194)	\$ 0.00376	\$ 0.00404
Aug '16	Oct '16	16,864,052	\$ 1,210,058.88	45,548,332	\$ 3,358,758.06	\$ 0.07374	\$ (0.07194)	\$ 0.00180	\$ 0.00194
Sep '16	Nov '16	13,547,772	\$ 1,079,259.61	45,256,334	\$ 3,369,937.96	\$ 0.07446	\$ (0.07194)	\$ 0.00252	\$ 0.00271
Oct '16	Dec '16	12,402,405	\$ 955,761.68	42,814,229	\$ 3,245,080.17	\$ 0.07579	\$ (0.07194)	\$ 0.00385	\$ 0.00414
Nov '16	Jan '17	12,220,092	\$ 956,580.93	38,170,269	\$ 2,991,602.22	\$ 0.07838	\$ (0.07194)	\$ 0.00644	\$ 0.00692
Dec '16	Feb '17	13,827,811	\$ 1,089,497.78	38,450,308	\$ 3,001,840.39	\$ 0.07807	\$ (0.07194)	\$ 0.00613	\$ 0.00659
Jan'17	Mar '17	13,656,702	*\$ 1,025,645.91	39,704,605	\$ 3,071,724.62	\$ 0.07736	\$ (0.07194)	\$ 0.00542	\$ 0.00583
Feb'17	Apr '17	11,866,614	*\$ 912,320.61	39,351,127	\$ 3,027,464.30	\$ 0.07693	\$ (0.07194)	\$ 0.00499	\$ 0.00536
Mar'17	May '17	12,936,492	\$ 1,069,577.85	38,459,808	\$ 3,007,544.37	\$ 0.07820	\$ (0.07194)	\$ 0.00626	\$ 0.00673
Apr'17	June '17	11,497,068	\$ 943,085.70	36,300,174	\$ 2,924,984.16	\$ 0.08058	\$ (0.07194)	\$ 0.00864	\$ 0.00929
May'17	July '17	12,213,395	\$ 1,006,024.23	36,646,955	\$ 3,018,687.78	\$ 0.08237	\$ (0.07194)	\$ 0.01043	\$ 0.01121
June'17	Aug '17	13,580,367	\$ 1,096,910.02	37,290,830	\$ 3,046,019.95	\$ 0.08168	\$ (0.07194)	\$ 0.00974	\$ 0.01047

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

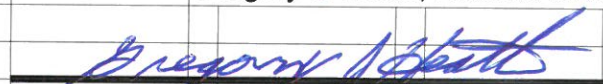
**PSCAF - Preparers Signature:**

Name - Lori A. Rausch, Utility Billing Administrator

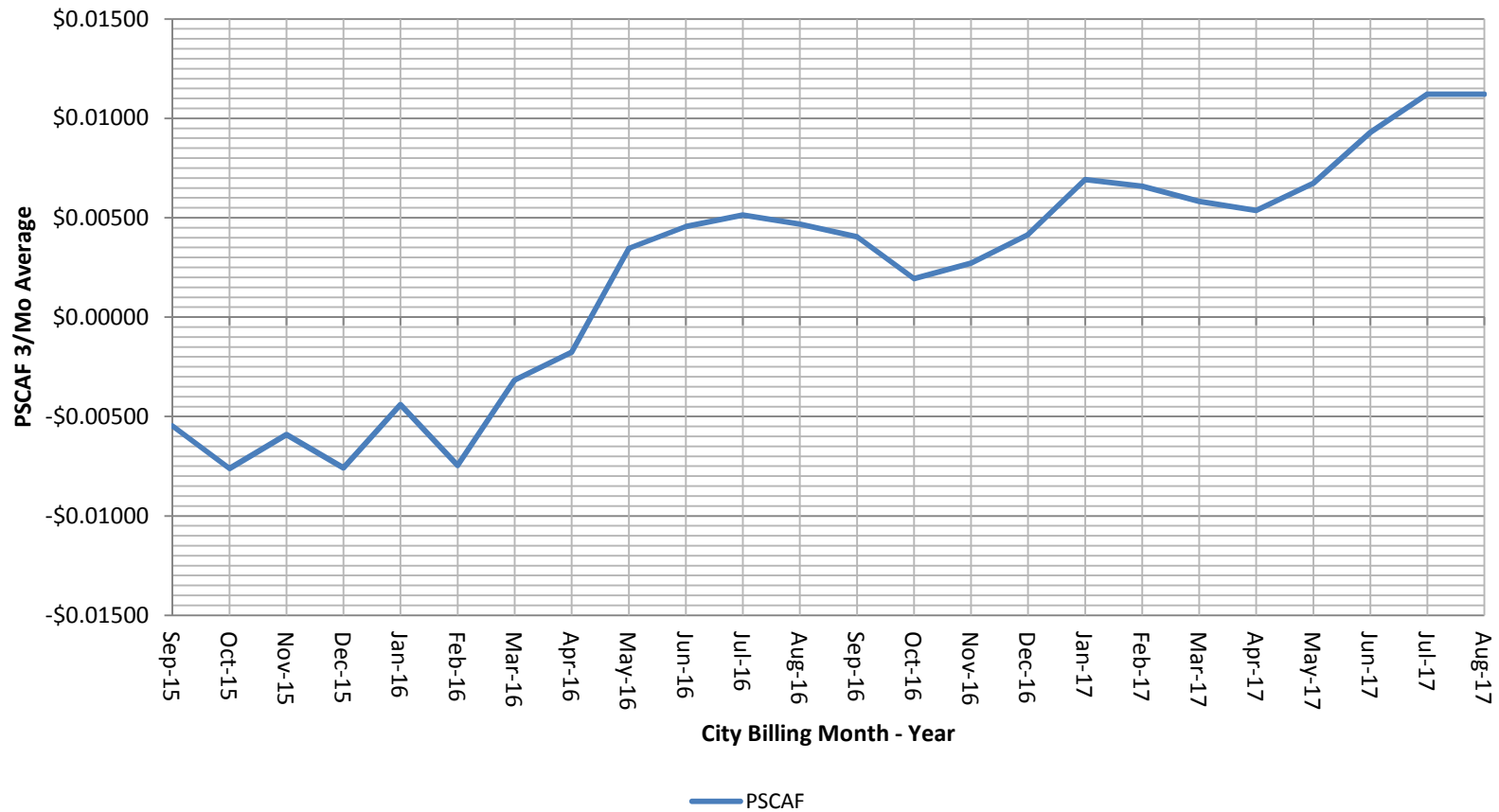
 **7/18/2017**  
Signature Date

**PSCAF - Reviewers Signature:**

Name - Gregory J. Heath, Finance Director

 **7/18/2017**  
Signature Date

## Power Supply Cost Adjustment Factor - PSCAF - Corrected



<b><u>BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - AUGUST, 2017</u></b>									
<b><u>2017 - AUGUST BILLING WITH JULY 2017 DATA BILLING UNITS</u></b>									
<b>PREVIOUS MONTH'S POWER BILLS - PURCHASED POWER KWH AND COST ALLOCATIONS BY DEMAND &amp; ENERGY:</b>									
<u>DATA PERIOD</u>	<u>MONTH / YR</u>	<u>DAYS IN MONTH</u>	<u>MUNICIPAL PEAK</u>						
AMP-Ohio Bill Month	JUNE, 2017	30	31.427						
City-System Data Month	JULY, 2017	31							
City-Monthly Billing Cycle	AUGUST, 2017	31							
<b>=====CONTRACTED AND OPEN MARKET POWER=====</b>									
<b>=====PEAKING=====</b>									
<b>=====HYDRO POWER=====</b>									
( <b>PURCHASED POWER-RESOURCES -&gt;</b> (	AMP CT	FREEMONT ENERGY	PRAIRIE STATE SCHED. @ PJMC	MORGAN STNLY. REPLMNT.2015-20	NORTHERN POWER	JV-2 PEAKING	AMP-HYDRO CSW	MELDAHL-HYDRO SCHED. @	GREENUP HYDRO SCHED. @
( SCHED. @ ATSI	SCHEDULED	REPLMT @ PJMC	7x24 @ AD	POOL	SCHED. @ ATSI	SCHED. @ PJMC	MELDAHL BUS	GREENUP BUS	
Delivered kWh (On Peak) ->	67,822	3,663,425	3,539,316	2,736,000	185,961	1,336	1,250,708	266,384	124,740
Delivered kWh (Off Peak) ->					95,204				
Delivered kWh (Replacement/Losses/Offset) ->									
Delivered kWh/Sale (Credits) ->					-1,399,406				
<b>Net Total Delivered kWh as Billed -&gt;</b>	<b>67,822</b>	<b>3,663,425</b>	<b>3,539,316</b>	<b>2,736,000</b>	<b>-1,118,241</b>	<b>1,336</b>	<b>1,250,708</b>	<b>266,384</b>	<b>124,740</b>
<i>Percent % of Total Power Purchased-&gt;</i>	<i>0.4994%</i>	<i>26.9759%</i>	<i>26.0620%</i>	<i>20.1467%</i>	<i>-8.2342%</i>	<i>0.0098%</i>	<i>9.2097%</i>	<i>1.9615%</i>	<i>0.9185%</i>
<b><u>COST OF PURCHASED POWER:</u></b>									
<b><u>DEMAND CHARGES (+Debits)</u></b>									
Demand Charges	\$31,620.00	\$34,749.14	\$56,868.27			\$667.92	\$7,614.20	\$2,131.92	\$2,346.30
Debt Services (Principal & Interest)		\$44,291.71	\$99,228.85				\$135,035.58	\$17,544.24	\$5,646.30
<b><u>DEMAND CHARGES (-Credits)</u></b>									
Transmission Charges (Demand-Credits)	-\$31,299.29					-\$881.46			
Capacity Credit	-\$47,201.21	-\$29,274.83	-\$16,009.57			-\$1,409.74	-\$2,768.84	-\$1,812.03	-\$1,037.77
<b>Sub-Total Demand Charges</b>	<b>-\$46,880.50</b>	<b>\$49,766.02</b>	<b>\$140,087.55</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>-\$1,623.28</b>	<b>\$139,880.94</b>	<b>\$17,864.13</b>	<b>\$6,954.83</b>
<b><u>ENERGY CHARGES (+Debits):</u></b>									
Energy Charges - (On Peak)	\$6,141.33	\$98,275.80	\$42,604.35	\$172,231.20	\$8,350.39	\$58.17	\$166.18	-\$14.18	\$142.68
Energy Charges - (Replacement/Off Peak)					\$2,016.44				
Net Congestion, Losses, FTR		\$9,697.81	\$2,581.23	\$603.82			\$989.73	\$401.84	\$87.17
Transmission Charges (Energy-Debits)			\$32,401.44						
ESPP Charges									
Bill Adjustments (General & Rate Levelization)		-\$215.71	\$7,129.96			\$58.33	\$37,841.03	\$4,206.61	\$1,270.05
<b><u>ENERGY CHARGES (-Credits or Adjustments):</u></b>									
Energy Charges - On Peak (Sale or Rate Stabilization)					-\$37,511.21				
Net Congestion, Losses, FTR									
Bill Adjustments (General & Rate Levelization)							-\$2,501.42	-\$532.77	-\$249.48
<b>Sub-Total Energy Charges</b>	<b>\$6,141.33</b>	<b>\$107,757.90</b>	<b>\$84,716.98</b>	<b>\$172,835.02</b>	<b>-\$27,144.38</b>	<b>\$116.50</b>	<b>\$36,495.52</b>	<b>\$4,061.50</b>	<b>\$1,250.42</b>
<b><u>TRANSMISSION &amp; SERVICE CHARGES, MISC.:</u></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)									
<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>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>TOTAL - ALL COSTS OF PURCHASED POWER</b>	<b>-\$40,739.17</b>	<b>\$157,523.92</b>	<b>\$224,804.53</b>	<b>\$172,835.02</b>	<b>-\$27,144.38</b>	<b>-\$1,506.78</b>	<b>\$176,376.46</b>	<b>\$21,925.63</b>	<b>\$8,205.25</b>
<i>Purchased Power Resources - Cost per kWh-&gt;</i>	<i>-\$0.600678</i>	<i>\$0.042999</i>	<i>\$0.063516</i>	<i>\$0.063171</i>	<i>-\$0.024274</i>	<i>-\$1.127829</i>	<i>\$0.141021</i>	<i>\$0.082308</i>	<i>\$0.065779</i>



<b><u>BILLING SUMMARY AND CONS</u></b>									
<b><u>2017 - AUGUST BILLING WITH JULY 2017 DATA</u></b>									
<b><u>PREVIOUS MONTH'S POWER BILLS - PU</u></b>									
<b><u>DATA PERIOD</u></b>									
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><u>PURCHASED POWER-RESOURCES -&gt; (</u></b>	<b><u>HYDRO</u></b>	<b><u>HYDRO</u></b>	<b><u>WIND</u></b>	<b><u>PHASE 1</u></b>	<b><u>POWER PLANT</u></b>	<b><u>CHARGES</u></b>	<b><u>DISPATCH, A &amp; B</u></b>	<b><u>CHARGES &amp;</u></b>	<b><u>ALL</u></b>
(	<b><u>SCHED. @ NYIS</u></b>	<b><u>7x24 @ ATSI</u></b>	<b><u>SCHED. @ ATSI</u></b>	<b><u>SCHED. @ ATSI</u></b>	<b><u>2014 - 2017</u></b>	<b><u>Other Charges</u></b>	<b><u>Other Charges</u></b>	<b><u>LEVELIZATION</u></b>	<b><u>RESOURCES</u></b>
Delivered kWh (On Peak) ->	594,703	2,223,360	32,201	166,121	0	0	0	0	14,852,077
Delivered kWh (Off Peak) ->									95,204
Delivered kWh (Replacement/Losses/Offset) ->		32,492							32,492
Delivered kWh/Sale (Credits) ->									-1,399,406
<b>Net Total Delivered kWh as Billed -&gt;</b>	<b>594,703</b>	<b>2,255,852</b>	<b>32,201</b>	<b>166,121</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,580,367</b>
Percent % of Total Power Purchased->	4.3791%	16.6111%	0.2371%	1.2234%	0.0000%	0.0000%	0.0000%	0.0000%	100.0000%
								Verification Total ->	100.0000%
<b><u>COST OF PURCHASED POWER:</u></b>									
<b><u>DEMAND CHARGES (+Debits)</u></b>									
Demand Charges	\$5,993.17	\$39,094.09	\$1,545.40			\$137,372.49			\$320,002.90
Debt Services (Principal & Interest)		\$55,367.84							\$357,114.52
<b><u>DEMAND CHARGES (-Credits)</u></b>									
Transmission Charges (Demand-Credits)		-\$13,269.72	-\$76.50						-\$45,526.97
Capacity Credit	-\$4,361.06	-\$14,428.23	-\$119.33						-\$118,422.61
<b>Sub-Total Demand Charges</b>	<b>\$1,632.11</b>	<b>\$66,763.98</b>	<b>\$1,349.57</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$137,372.49</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$513,167.84</b>
<b><u>ENERGY CHARGES (+Debits):</u></b>									
Energy Charges - (On Peak)	\$8,311.87	\$42,326.66		\$14,452.52		\$7,793.77			\$400,840.74
Energy Charges - (Replacement/Off Peak)									\$2,016.44
Net Congestion, Losses, FTR	\$612.57								\$14,974.17
Transmission Charges (Energy-Debits)									\$32,401.44
ESPP Charges					\$18,154.46				\$18,154.46
Bill Adjustments (General & Rate Levelization)								-\$75,000.00	-\$24,709.73
<b><u>ENERGY CHARGES (-Credits or Adjustments):</u></b>									
Energy Charges - On Peak (Sale or Rate Stabilization)									-\$37,511.21
Net Congestion, Losses, FTR									\$0.00
Bill Adjustments (General & Rate Levelization)	\$229.04								-\$3,054.63
<b>Sub-Total Energy Charges</b>	<b>\$9,153.48</b>	<b>\$42,326.66</b>	<b>\$0.00</b>	<b>\$14,452.52</b>	<b>\$18,154.46</b>	<b>\$7,793.77</b>	<b>\$0.00</b>	<b>-\$75,000.00</b>	<b>\$403,111.68</b>
<b><u>TRANSMISSION &amp; SERVICE CHARGES, MISC.:</u></b>									
RPM / PJM Charges Capacity - (+Debit)						\$170,298.93			\$170,298.93
RPM / PJM Charges Capacity - (-Credit)									\$0.00
Service Fees AMP-Dispatch Center - (+Debit/-Credit)							\$535.68		\$535.68
Service Fees AMP-Part A - (+Debit/-Credit)							\$2,969.55		\$2,969.55
Service Fees AMP-Part B - (+Debit/-Credit)							\$7,893.28		\$7,893.28
Other Charges & Bill Adjustments - (+Debit/-Credit)								-\$1,066.94	-\$1,066.94
<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>\$170,298.93</b>	<b>\$11,398.51</b>	<b>-\$1,066.94</b>	<b>\$180,630.50</b>
<b>TOTAL - ALL COSTS OF PURCHASED POWER</b>	<b>\$10,785.59</b>	<b>\$109,090.64</b>	<b>\$1,349.57</b>	<b>\$14,452.52</b>	<b>\$18,154.46</b>	<b>\$315,465.19</b>	<b>\$11,398.51</b>	<b>-\$76,066.94</b>	<b>\$1,096,910.02</b>
								Verification Total ->	\$1,096,910.02
<b>Purchased Power Resources - Cost per kWh-&gt;</b>	<b>\$0.018136</b>	<b>\$0.048359</b>	<b>\$0.041911</b>	<b>\$0.087000</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.000000</b>	<b>\$0.080772</b>
									(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWH) = JV2 Electric Service Rate -> \$0.022370
									(Northern Pool Power - On-Peak + Off-Peak - Energy Charge/kWH) = JV5 Electric Service Rate -> \$0.022370





**AMERICAN MUNICIPAL POWER, INC.**

1111 Schrock Rd, Suite 100

COLUMBUS, OHIO 43229

PHONE: (614) 540-1111

FAX: (614) 540-1078

**City of Napoleon**

Gregory J. Heath, Finance Director  
255 W. Riverview Ave., P.O. Box 151  
Napoleon, Ohio 43545-0151

**INVOICE NUMBER:** 198697

**INVOICE DATE:** 7/14/2017

**DUE DATE:** 7/31/2017

**TOTAL AMOUNT DUE:** \$957,849.78

**CUSTOMER NUMBER:** 5020

**CUSTOMER P.O. #:** RG10046

PLEASE WRITE INVOICE NUMBER ON  
REMITTANCE. MAKE CHECK PAYABLE TO AMP  
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**Northern Power Pool Billing - June, 2017**

MUNICIPAL PEAK: 31,427 kW  
TOTAL METERED ENERGY: 13,609,104 kWh

Total Power Charges:	\$707,053.02
Total Transmission Charges:	\$315,465.19
Total Other Charges:	\$11,398.51
Total Miscellaneous Charges:	-\$76,066.94

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<b>GRAND TOTAL POWER INVOICE:</b>	<b>\$957,849.78</b>
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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**

DETAIL INFORMATION OF POWER CHARGES June , 2017

Napoleon

FOR THE MONTH OF:

June, 2017

Total Metered Load kWh:	13,609,104
Transmission Losses kWh:	-28,737
Distribution Losses kWh:	0
Total Energy Req. kWh:	13,580,367

TIME OF FENTS PEAK: 06/13/2017 @ H.E. 13:00  
 TIME OF MUNICIPAL PEAK: 06/13/2017 @ H.E. 16:00  
 TRANSMISSION PEAK: August, 2016

COINCIDENT PEAK kW:	29,776
MUNICIPAL PEAK kW:	31,427
TRANSMISSION PEAK kW:	31,968
PJM Capacity Requirement kW:	30,922

**Napoleon Resources**

**AMP CT - Sched @ ATSI**

Demand Charge:	\$2.550000	/ kW *	12,400 kW =	\$31,620.00
Energy Charge:	\$0.090550	/ kWh *	67,822 kWh =	\$6,141.33
Transmission Credit:	\$2.524136	/ kW *	-12,400 kW =	-\$31,299.29
Capacity Credit:	\$3.806549	/ kW *	-12,400 kW =	-\$47,201.21
<b>Subtotal</b>	<b>-\$0.600673</b>	<b>/ kWh *</b>	<b>67,822 kWh =</b>	<b>-\$40,739.17</b>

**Fremont - sched @ Fremont**

Demand Charge:	\$3.963630	/ kW *	8,767 kW =	\$34,749.14
Energy Charge:	\$0.026826	/ kWh *	3,663,425 kWh =	\$98,275.80
Net Congestion, Losses, FTR:	\$0.002647	/ kWh *		\$9,697.81
Capacity Credit:	\$3.339207	/ kW *	-8,767 kW =	-\$29,274.83
Debt Service	\$5.052094	/ kW	8,767 kW	\$44,291.71
Adjustment for prior month:				-\$215.71
<b>Subtotal</b>	<b>\$0.042999</b>	<b>/ kWh *</b>	<b>3,663,425 kWh =</b>	<b>\$157,523.92</b>

**AMP Hydro CSW - Sched @ PJMC**

Demand Charge:	\$3.429998	/ kW *	2,220 kW =	\$7,614.20
Energy Charge:	\$0.000133	/ kWh *	1,250,708 kWh =	\$166.18
Net Congestion, Losses, FTR:	\$0.000791	/ kWh *		\$989.73
Capacity Credit:	\$1.247290	/ kW *	-2,220 kW =	-\$2,768.84
Debt Service	\$60.830000	/ kW	2,220 kW	\$135,035.58
Board Approved Rate Levelization				\$37,841.03
REC Credit (Estimate)				-\$2,501.42
<b>Subtotal</b>	<b>\$0.141021</b>	<b>/ kWh *</b>	<b>1,250,708 kWh =</b>	<b>\$176,376.46</b>

**Meldahl Hydro - Sched @ Meldahl Bus**

Demand Charge:	\$4.230000	/ kW *	504 kW =	\$2,131.92
Energy Charge:	-\$0.000053	/ kWh *	266,384 kWh =	-\$14.18
Net Congestion, Losses, FTR:	\$0.001509	/ kWh *		\$401.84
Capacity Credit:	\$3.595298	/ kW *	-504 kW =	-\$1,812.03
Debt Service	\$34.810000	/ kW	504 kW	\$17,544.24
Board Approved Rate Levelization				\$4,206.61
REC Credit (Estimate)				-\$532.77
<b>Subtotal</b>	<b>\$0.082308</b>	<b>/ kWh *</b>	<b>266,384 kWh =</b>	<b>\$21,925.63</b>

**JV6 - Sched @ ATSI**

Demand Charge:			300 kW	
Energy Charge:			32,201 kWh	
Transmission Credit:	\$0.255000	/ kW *	-300 kW =	-\$76.50
Capacity Credit:	\$0.397767	/ kW *	-300 kW =	-\$119.33
<b>Subtotal</b>	<b>-\$0.006082</b>	<b>/ kWh *</b>	<b>32,201 kWh =</b>	<b>-\$195.83</b>

**Greenup Hydro - Sched @ Greenup Bus**

Demand Charge:	\$7.110000	/ kW *	330 kW =	\$2,346.30
Energy Charge:	\$0.001144	/ kWh *	124,740 kWh =	\$142.68
Net Congestion, Losses, FTR:	\$0.000699	/ kWh *		\$87.17
Capacity Credit:	\$3.144758	/ kW *	-330 kW =	-\$1,037.77
Debt Service	\$17.110000	/ kW	330 kW	\$5,646.30
Board Approved Rate Levelization				\$1,270.05
REC Credit (Estimate)				-\$249.48
<b>Subtotal</b>	<b>\$0.065779</b>	<b>/ kWh *</b>	<b>124,740 kWh =</b>	<b>\$8,205.25</b>

**Prairie State - Sched @ PJMC**

Demand Charge:	\$11.428511	/ kW *	4,976 kW =	\$56,868.27
Energy Charge:	\$0.012037	/ kWh *	3,539,316 kWh =	\$42,604.35
Net Congestion, Losses, FTR:	\$0.000729	/ kWh *		\$2,581.23
Capacity Credit:	\$3.217357	/ kW *	-4,976 kW =	-\$16,009.57
Debt Service	\$19.941489	/ kW	4,976 kW	\$99,228.85
Transmission from PSEC to PJM/MISO, including non-Prairie State variable charges/credits	\$0.009155	/ kWh	3,539,316 kWh	\$32,401.44
Board Approved Rate Levelization				\$7,129.96
<b>Subtotal</b>	<b>\$0.063516</b>	<b>/ kWh *</b>	<b>3,539,316 kWh =</b>	<b>\$224,804.53</b>

**NYPA - Sched @ NYIS**

Demand Charge:	\$6.535627	/ kW *	917 kW =	\$5,993.17
Energy Charge:	\$0.013977	/ kWh *	594,703 kWh =	\$8,311.87
Net Congestion, Losses, FTR:	\$0.001030	/ kWh *		\$612.57
Capacity Credit:	\$4.610000	/ kW *	-946 kW =	-\$4,361.06
Adjustment for prior month:				\$229.04
<b>Subtotal</b>	<b>\$0.018136</b>	<b>/ kWh *</b>	<b>594,703 kWh =</b>	<b>\$10,785.59</b>

**JV5 - 7X24 @ ATSI**

Demand Charge:			3,088 kW	
Energy Charge:			2,223,360 kWh	
Transmission Credit:	\$4.297189	/ kW *	-3,088 kW =	-\$13,269.72
Capacity Credit:	\$4.672354	/ kW *	-3,088 kW =	-\$14,428.23
<b>Subtotal</b>	<b>-\$0.012458</b>	<b>/ kWh *</b>	<b>2,223,360 kWh =</b>	<b>-\$27,697.95</b>

**JV5 Losses - Sched @ ATSI**

Energy Charge:			32,492 kWh	
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DETAIL INFORMATION OF POWER CHARGES June , 2017

Napoleon

	<i>Subtotal</i>	<i>#N/A</i>	<i>/ kWh *</i>		
<b>JV2 - Sched @ ATSI</b>				<b>32,492 kWh =</b>	<b>\$0.00</b>
Demand Charge:				264 kW	
Energy Charge:	\$0.043537	/ kWh *		1,336 kWh =	\$58.17
Transmission Credit:	\$3.338864	/ kW *		-264 kW =	-\$881.46
Capacity Credit:	\$5.339924	/ kW *		-264 kW =	-\$1,409.74
<b>Subtotal</b>	<b>-\$1.671315</b>	<b>/ kWh *</b>		<b>1,336 kWh =</b>	<b>-\$2,233.03</b>
<b>AMP Solar Phase I - Sched @ ATSI</b>					
Demand Charge:				1,040 kW	
Energy Charge:	\$0.087000	/ kWh *		166,121 kWh =	\$14,452.52
<b>Subtotal</b>	<b>\$0.087000</b>	<b>/ kWh *</b>		<b>166,121 kWh =</b>	<b>\$14,452.52</b>
<b>Morgan Stanley 2015-2020 - 7x24 @ AD</b>					
Demand Charge:				3,800 kW	
Energy Charge:	\$0.062950	/ kWh *		2,736,000 kWh =	\$172,231.20
Net Congestion, Losses, FTR:	\$0.000221	/ kWh *			\$603.82
<b>Subtotal</b>	<b>\$0.063171</b>	<b>/ kWh *</b>		<b>2,736,000 kWh =</b>	<b>\$172,835.02</b>
<b>Efficiency Smart Power Plant 2017-2020</b>					
ESPP 2017-2020 obligation @ \$1.400 /MWh x 155,609.7 MWh / 12					\$18,154.46
<b>Subtotal</b>		<b>#N/A</b>	<b>/ kWh *</b>	<b>0 kWh =</b>	<b>\$18,154.46</b>
<b>Northern Power Pool:</b>					
On Peak Energy Charge: (M-F HE 08-23 EDT)	\$0.044904	/ kWh *		185,961 kWh =	\$8,350.39
Off Peak Energy Charge:	\$0.021180	/ kWh *		95,204 kWh =	\$2,016.44
Sale of Excess Non-Pool Resources to Pool	\$0.026805	/ kWh *		-1,399,405 kWh =	-\$37,511.21
<b>Subtotal</b>	<b>\$0.024274</b>	<b>/ kWh *</b>		<b>-1,118,241 kWh =</b>	<b>-\$27,144.38</b>
<b>Total Demand Charges:</b>					<b>\$279,120.10</b>
<b>Total Energy Charges:</b>					<b>\$427,932.92</b>
<b>Total Power Charges:</b>				<b>13,580,367 kWh</b>	<b>\$707,053.02</b>
<b>TRANSMISSION CHARGES:</b>					
Demand Charge:	\$4.297188	/ kW *		31,968 kW =	\$137,372.49
Energy Charge:	\$0.000686	/ kWh *		11,357,007 kWh =	\$7,793.77
RPM (Capacity) Charges:	\$5.507300	/ kW *		30,922 kW =	\$170,298.93
<b>TOTAL TRANSMISSION CHARGES:</b>	<b>\$0.027777</b>	<b>/ kWh *</b>		<b>11,357,007 kWh =</b>	<b>\$315,465.19</b>
Dispatch Center Charges:	\$0.000039	/ kWh *		13,609,104 kWh =	\$535.68
<b>Service Fee Part A,</b>					
Based on Annual Municipal Sales	\$0.000229	/ kWh *		155,609,698 kWh 1/12 =	\$2,969.55
<b>Service Fee Part B,</b>					
Energy Purchases	\$0.000580	/kWh *		13,609,104 kWh =	\$7,893.28
<b>TOTAL OTHER CHARGES:</b>					<b>\$11,398.51</b>
<b>MISCELLANEOUS CHARGES:</b>					
Deposit / (Withdraw) from RSF account					-\$75,000.00
Prior Month Adjustment					-\$1,066.94
<b>TOTAL MISCELLANEOUS CHARGES:</b>					<b>-\$76,066.94</b>
<b>GRAND TOTAL POWER INVOICE:</b>					<b>\$957,849.78</b>

Napoleon Capacity Plan - Actual														
Jun	2017	ACTUAL DEMAND =			31.43	MW								
Days	30	ACTUAL ENERGY =			13,609	MWH								
SOURCE		DEMAND	DEMAND	ENERGY	LOAD	DEMAND	ENERGY	CONGESTION/L	CAPACITY	TRANSMISSION	EFFECTIVE		%	
(1)		MW	MW-MO	MWH	FACTOR	RATE	RATE	OSSES	CREDIT RATE	CREDIT RATE	TOTAL	RATE	OF	
		(2)	(3)	(4)	(5)	\$/KW	\$/MWH	\$/MWH	\$/KW	\$/KW	CHARGES	\$/MWH	DOLLARS	
1	NYPA - Ohio	0.92	0.92	595	90%	\$6.54	\$14.36	\$1.03	-\$4.76		\$10,786	\$18.14	0.9%	
2	JV5	3.09	3.09	2,223	100%	\$31.49	\$17.79		-\$4.67	-\$4.30	\$109,091	\$49.07	9.3%	
3	JV5 Losses	0.00	0.00	32	0%						\$0		0.0%	
4	JV6	0.30	0.30	32	15%	\$5.15			-\$0.26	-\$0.40	\$1,350	\$41.91	0.1%	
5	AMP-Hydro	2.22	2.22	1,251	78%	\$81.31	-\$1.87	\$0.79	-\$1.25		\$176,376	\$141.02	15.1%	
6	Meldahl	0.50	0.50	266	73%	\$47.39	-\$2.05	\$1.51	-\$3.60		\$21,926	\$82.31	1.9%	
7	Greenup	0.33	0.33	125	53%	\$28.07	-\$0.86	\$0.70	-\$3.14		\$8,205	\$65.78	0.7%	
8	AFEC	8.77	8.77	3,663	58%	\$9.02	\$26.77	\$2.65	-\$3.34		\$157,524	\$43.00	13.5%	
9	Prairie State	4.98	4.98	3,539	99%	\$32.80	\$21.19	\$0.73	-\$3.22		\$224,805	\$63.52	19.2%	
10	AMP Solar Phase I	1.04	1.04	166	22%		\$87.00				\$14,453	\$87.00	1.2%	
11	Morgan Stanley 2015-20 7x24	3.80	3.80	2,736	100%		\$62.95	\$0.22			\$172,835	\$63.17	14.8%	
12	AMPCT	12.40	12.40	68	1%	\$2.55	\$90.55		-\$3.81	-\$2.52	-\$40,739	-\$600.67	-3.5%	
13	JV2	0.26	0.26	1	1%	\$2.75	\$43.54		-\$5.34	-\$3.34	-\$1,507		-0.1%	
14	NPP Pool Purchases	0.00	0.00	281	0%		\$33.08				\$9,300	\$33.08	0.8%	
15	NPP Pool Sales	0.00		-1,399	0%		\$26.81				-\$37,511	\$26.81	-3.2%	
	POWER TOTAL	38.61	38.61	13,580	49%	\$593,024	\$382,844	\$1.10	-\$118,380	-\$45,570	\$826,892	\$60.89	70.7%	
16	Energy Efficiency			0							\$18,154		1.6%	
17	Installed Capacity	30.92	30.92			\$5.51					\$170,299	\$12.51	14.6%	
18	Transmission	31.97	31.97	11,357		\$4.30	\$0.69				\$145,166	\$10.67	12.4%	
19	Service Fee B			13,609			\$0.58				\$7,893	\$0.58	0.7%	
20	Dispatch Charge			13,609			\$0.04				\$536	\$0.04	0.0%	
	OTHER TOTAL					\$307,671	\$34,377				\$342,049	\$25.13	29.3%	
GRAND TOTAL PURCHASED				13,580							\$1,168,940			
Delivered to members		31.427	31.427	13,609	60%						\$1,168,940	\$85.89	100.0%	
		DEMAND		ENERGY	L.F.						TOTAL \$	\$/MWh	Avg Temp	
2017 Forecast		28.82		14,002	67%						\$1,249,160	\$89.21	69.5	
2016 Actual		30.14		13,893	64%						\$1,064,872	\$76.65	70.9	
2015 Actual		28.39		13,790	67%						\$1,013,219	\$73.48	68.0	
											Actual Temp		70.1	

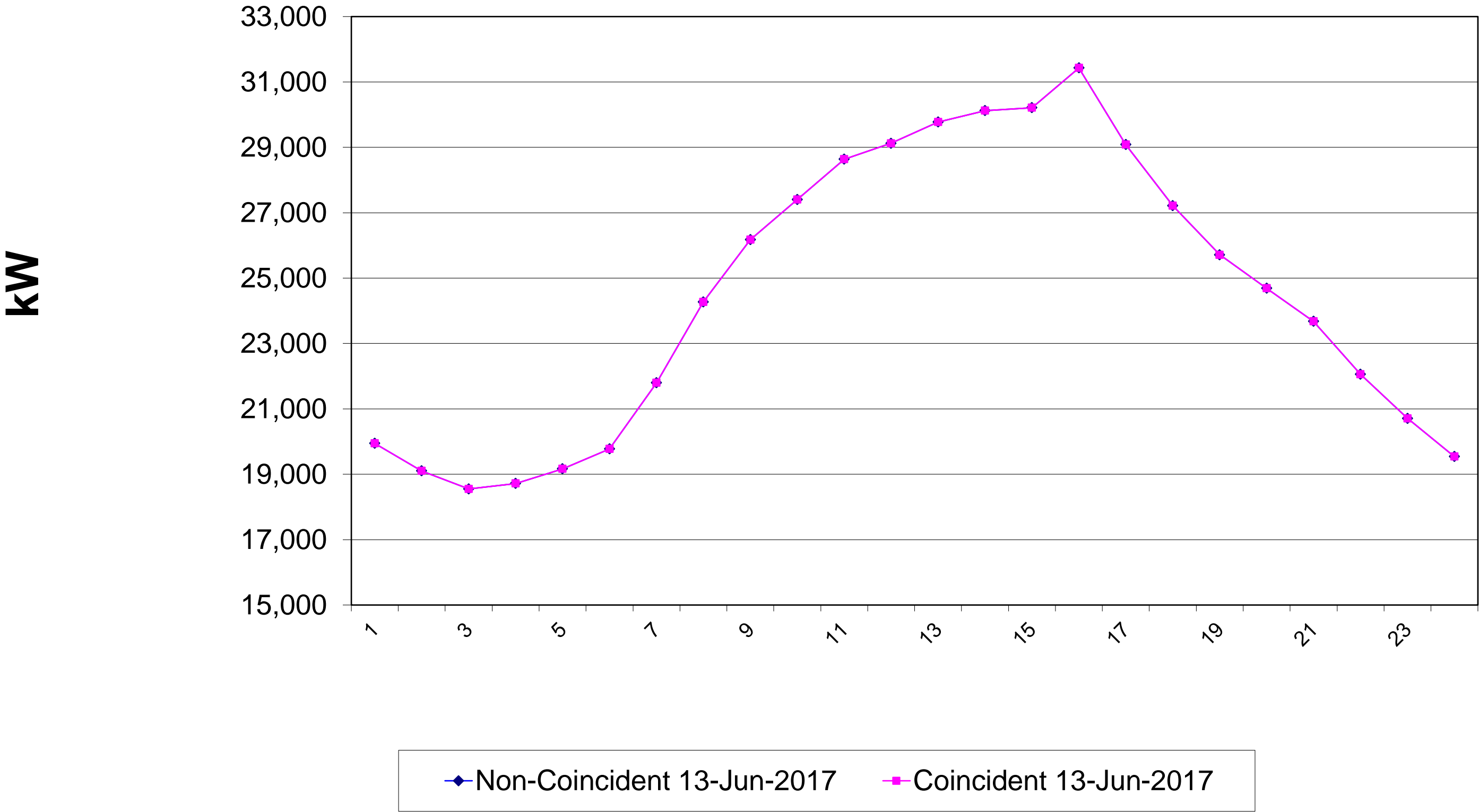
NAPOLEON

	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Date	6/1/2017	6/2/2017	6/3/2017	6/4/2017	6/5/2017	6/6/2017	6/7/2017	6/8/2017	6/9/2017	6/10/2017	6/11/2017	6/12/2017	6/13/2017	6/14/2017	6/15/2017
Hour															
100	14,773	14,808	13,271	13,869	16,309	15,550	15,142	14,996	15,413	14,152	14,873	18,046	19,944	18,198	18,861
200	14,579	14,300	12,829	13,457	16,122	15,218	14,966	14,896	14,977	13,633	14,349	17,534	19,100	17,751	18,290
300	14,111	13,799	12,473	13,253	15,781	14,661	14,509	14,415	14,521	13,334	13,864	17,221	18,551	17,154	17,478
400	14,483	14,137	12,791	13,239	15,995	14,716	14,741	14,618	14,731	13,459	13,714	17,281	18,718	17,512	17,649
500	15,394	14,883	12,928	13,273	16,875	15,452	15,579	15,307	15,363	13,424	13,634	17,854	19,164	18,556	18,413
600	15,767	15,313	12,807	13,073	17,161	15,828	15,964	15,839	15,718	13,380	13,226	18,164	19,771	18,808	18,813
700	17,145	16,804	13,319	13,532	18,533	17,039	17,260	17,132	17,247	14,378	14,107	19,823	21,794	20,386	20,077
800	17,890	17,689	14,326	14,295	19,933	18,147	18,294	18,255	18,143	15,605	15,489	21,796	24,272	21,691	21,349
900	18,460	18,336	15,332	15,169	20,848	18,750	18,650	18,938	18,775	16,668	16,739	23,487	26,171	22,731	22,535
1000	18,989	19,039	15,830	15,864	21,606	19,364	18,864	19,256	18,893	17,859	17,952	24,911	27,402	23,234	23,382
1100	19,402	19,275	16,202	16,464	22,085	19,518	19,318	19,991	19,272	18,571	18,940	26,105	28,634	23,815	23,712
1200	19,823	19,627	16,579	17,641	22,729	19,889	19,519	20,083	19,569	19,164	19,626	26,811	29,125	25,018	24,195
1300	19,985	19,617	17,105	18,336	22,580	20,322	19,716	20,363	20,084	19,552	20,281	27,728	29,776	25,604	24,673
1400	19,811	19,803	16,268	18,723	22,557	20,085	19,818	20,745	20,064	19,880	20,715	27,689	30,122	25,851	25,242
1500	19,975	19,890	17,103	19,427	22,777	19,036	19,619	20,736	20,075	20,050	21,239	27,655	30,213	26,003	25,879
1600	20,028	19,956	17,791	19,745	22,177	19,429	19,457	20,871	20,149	20,218	22,033	27,828	31,427	26,686	26,512
1700	19,751	19,488	17,911	19,522	21,605	19,613	19,322	20,426	19,973	20,362	22,627	27,071	29,087	26,521	26,564
1800	19,468	19,156	17,590	19,253	20,976	19,170	19,003	20,411	19,870	20,301	22,604	28,363	27,213	26,490	26,593
1900	18,964	18,654	17,167	18,938	20,047	18,557	18,618	19,598	19,620	19,862	22,326	27,064	25,712	25,303	25,577
2000	18,694	18,122	16,816	18,665	19,273	17,934	18,321	19,251	18,925	19,175	22,077	26,597	24,685	24,666	24,663
2100	18,754	18,146	17,236	18,985	19,227	18,131	18,241	19,270	18,996	18,985	21,987	25,992	23,674	24,541	24,241
2200	17,815	17,308	16,676	18,517	18,283	17,539	17,391	18,496	18,365	18,354	21,357	24,377	22,058	23,038	23,143
2300	16,556	15,194	15,746	17,711	16,912	16,642	16,588	17,235	16,009	17,033	20,014	22,365	20,708	21,291	21,323
2400	15,444	14,129	14,675	16,903	16,330	15,881	15,733	16,342	15,036	15,898	18,937	21,027	19,541	19,908	19,998
Total	426,061	417,473	370,771	397,854	450,391	426,471	424,633	437,470	429,788	413,297	442,710	562,789	586,862	540,756	539,162

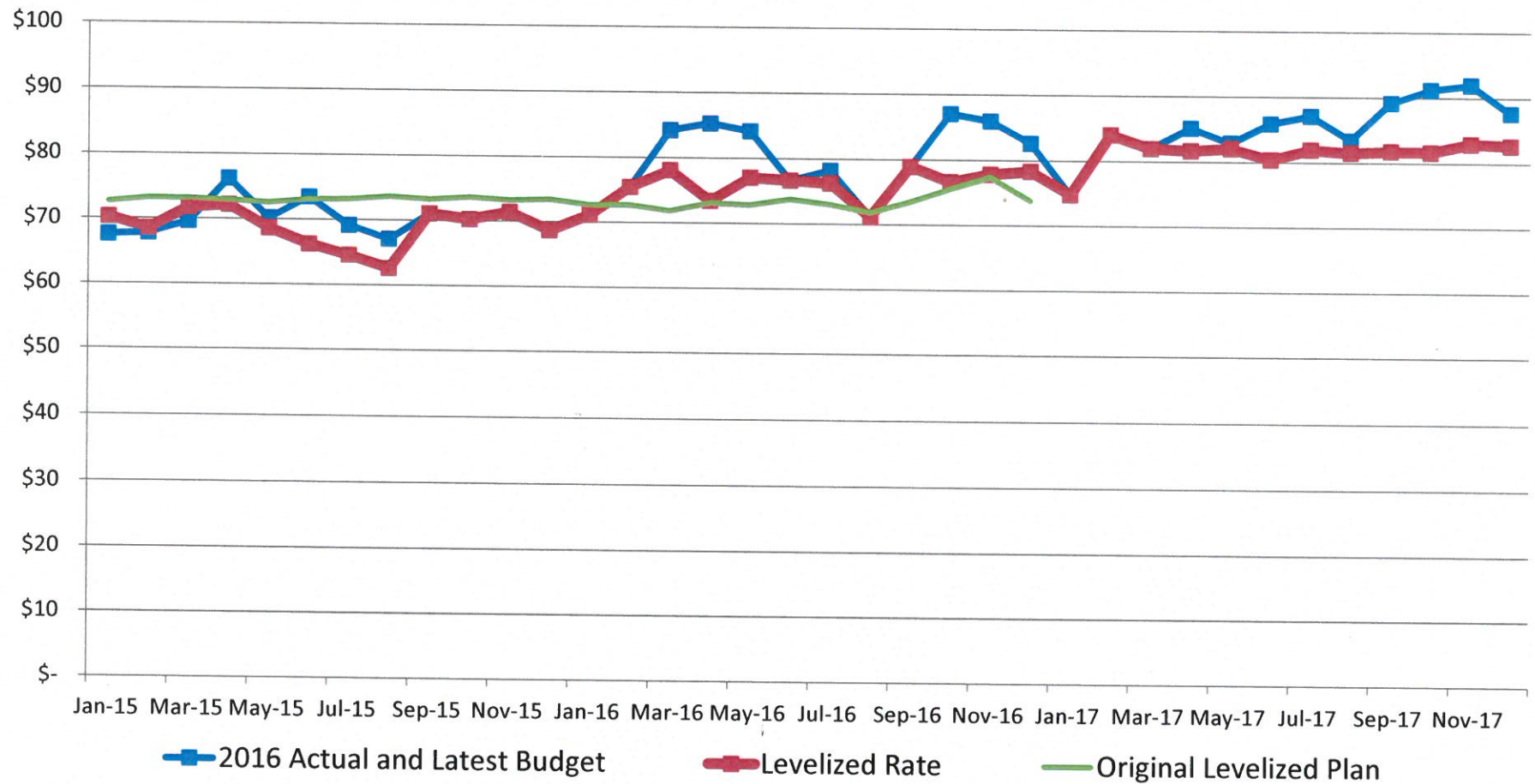
	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date	6/16/2017	6/17/2017	6/18/2017	6/19/2017	6/20/2017	6/21/2017	6/22/2017	6/23/2017	6/24/2017	6/25/2017	6/26/2017	6/27/2017	6/28/2017	6/29/2017	6/30/2017	7/1/2017
Hour																
100	18,630	16,116	16,092	16,372	15,437	15,777	16,766	19,261	13,170	12,354	14,121	14,317	14,945	15,854	17,963	-
200	17,947	15,543	15,805	15,814	15,125	15,617	16,491	18,797	12,879	11,964	13,928	14,274	14,608	15,571	17,436	-
300	17,222	14,817	15,559	15,408	14,710	15,182	16,112	18,318	12,702	11,697	13,646	14,128	14,432	15,558	17,249	-
400	17,016	14,899	15,511	15,447	14,871	15,296	16,267	18,276	12,772	11,597	13,764	14,330	14,804	15,803	17,220	-
500	17,645	15,157	15,092	16,121	15,775	16,037	16,919	18,827	12,758	11,483	14,725	15,011	15,450	16,561	17,923	-
600	18,406	15,046	14,856	16,366	16,020	16,438	17,448	19,374	12,442	11,204	15,163	15,254	15,674	16,929	18,728	-
700	20,110	16,187	15,583	17,792	17,004	17,662	19,069	20,641	13,284	11,591	16,287	16,537	17,122	18,178	19,867	-
800	21,684	18,133	16,740	19,356	18,431	18,452	20,732	21,820	14,394	12,460	17,613	17,905	18,157	19,922	21,397	-
900	22,985	19,667	17,786	20,385	19,255	19,090	21,391	22,399	15,249	13,157	18,432	18,466	18,876	20,943	22,356	-
1000	23,600	20,971	18,569	21,268	19,956	20,100	22,008	22,895	15,796	13,614	19,052	17,946	19,543	21,973	23,632	-
1100	23,953	21,899	19,386	21,729	20,370	20,375	22,074	23,007	16,016	13,838	19,435	18,650	19,809	23,195	24,247	-
1200	24,729	22,358	20,260	22,066	20,668	20,661	22,186	23,409	15,877	13,878	18,944	19,116	20,237	23,569	24,848	-
1300	25,545	22,907	20,513	22,721	21,160	21,217	23,763	23,279	15,632	13,973	19,497	19,300	20,447	24,252	25,530	-
1400	26,386	23,459	20,868	22,563	21,223	22,388	24,981	23,126	15,735	14,110	19,151	19,289	20,470	24,772	25,193	-
1500	26,949	23,532	21,167	20,924	21,359	22,682	25,656	22,298	15,982	14,298	18,732	19,062	20,340	25,228	23,258	-
1600	26,381	23,402	21,813	20,499	21,766	22,990	26,355	21,594	16,057	14,791	18,890	19,005	20,133	25,013	22,237	-
1700	25,307	23,176	21,449	20,501	21,481	22,957	25,771	20,967	16,269	14,974	18,227	18,479	20,018	24,702	21,058	-
1800	24,517	22,525	21,013	19,954	21,017	22,802	25,894	20,359	15,880	14,812	17,875	18,032	19,491	24,987	20,393	-
1900	23,979	21,989	20,367	19,127	20,097	21,928	25,189	19,578	15,329	14,738	17,229	17,508	19,221	24,243	19,359	-
2000	22,947	21,175	19,898	18,976	19,574	21,690	24,698	18,849	14,879	14,883	16,845	17,428	19,013	23,320	19,043	-
2100	22,912	20,483	19,384	18,780	19,286	21,554	24,200	18,768	15,009	15,359	17,295	17,901	19,224	23,118	18,965	-
2200	21,614	19,807	18,911	17,728	18,402	20,602	23,419	17,709	14,826	15,044	16,735	17,294	18,570	21,749	17,308	-
2300	18,710	18,269	18,119	16,651	17,312	19,123	21,891	15,298	13,839	14,980	15,667	16,490	17,611	20,211	15,891	-
2400	17,326	16,999	17,148	16,171	16,506	17,913	20,494	14,034	13,114	14,444	15,050	15,794	16,651	19,155	14,962	-
Total	526,500	451,517	441,889	452,719	446,805	468,533	519,774	482,883	349,890	325,243	406,303	411,516	434,846	504,806	486,063	-
											Maximum	31,427	Minimum	11,204	Grand Total	13,609,104



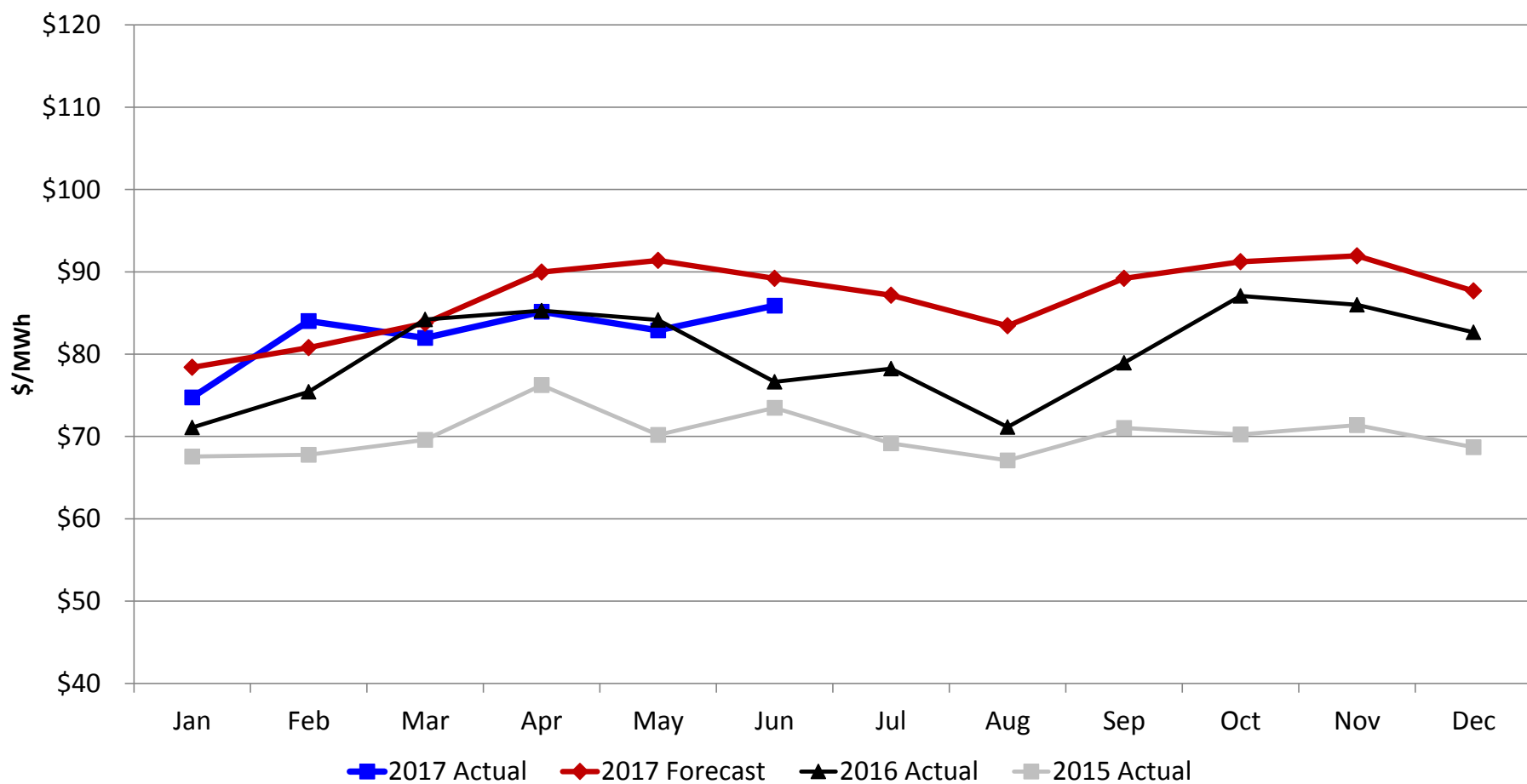
# Napoleon Peak Day Load Curve



## Napoleon Monthly Rate Levelization



## Napoleon 2017 Monthly Rates





**Omega Joint Venture Two**

1111 Schrock Rd, Suite 100

COLUMBUS, OHIO 43229

PHONE: (614) 540-1111

FAX: (614) 540-1078

**City of Napoleon**

Gregory J. Heath, Finance Director  
255 W. Riverview Ave., P.O. Box 151  
Napoleon, Ohio 43545-0151

**INVOICE NUMBER:** 198513

**INVOICE DATE:** 7/7/2017

**DUE DATE:** 7/17/2017

**TOTAL AMOUNT DUE:** \$726.25

**CUSTOMER NUMBER:** 5020

**CUSTOMER P.O. #:**

PLEASE WRITE INVOICE NUMBER ON  
REMITTANCE AND RETURN YELLOW INVOICE  
COPY. MAKE CHECK PAYABLE TO OMEGA JV 2

**OMEGA JV2 POWER INVOICE -**

**June, 2017**

FIXED RATE CHARGE:	264 kW *	\$2.53 / kW =	\$667.92
ENERGY CHARGE:	0 kWh *	\$0.000000 / kWh =	\$0.00
SERVICE FEES:	0 kWh *	\$0.000000 / kWh =	\$0.00
Fuel Costs that were not recovered through Energy Sales to Market			\$58.33

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<b>TOTAL CHARGES</b>	<b>\$726.25</b>
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\* To avoid a delayed payment charge, payment must be made to provide



1111 Schrock Rd, Suite 100  
Columbus, Ohio 43229  
Phone: (614) 540-1111  
Fax: (614) 540-1078

**City of Napoleon**  
Gregory J. Heath, Finance Director  
255 W. Riverview Ave., P.O. Box 151  
Napoleon, Ohio 43545-0151

**INVOICE NUMBER:** 198593  
**INVOICE DATE:** 7/3/2017  
**DUE DATE:** 7/13/2017  
**TOTAL AMOUNT DUE:** \$81,420.75  
**CUSTOMER NUMBER:** 5020  
**CUSTOMER P.O. NUMBER:** BL980397  
**MAKE CHECKS PAYABLE TO:** OMEGA JV5

PLEASE WRITE INVOICE NUMBER ON REMITTANCE  
AND RETURN YELLOW INVOICE COPY.

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**FOR THE MONTH/YEAR OF:**     **June, 2017**

**DEMAND CHARGES:**

Base Financing Demand Charge: (Invoiced seperately as of 1/1/07)

Base Operating Expense Demand Charge:	\$12.660000	/ kW *	3,088 kW =	\$39,094.09
Seca Associated with JV5.	\$0.000000	/ kW *	3,088 kW =	\$0.00

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TOTAL DEMAND CHARGES:	\$12.660003	/ kW *	3,088 kW =	\$39,094.09
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**ENERGY CHARGES:**

JV5 Repl. Pwr. & Variable (Budgeted Rate):	\$0.019037	/ kWh *	2,223,360 kWh =	\$42,326.66
JV5 Fuel Cost (Actual Expense):	\$0.000000	/ kWh *	2,223,360 kWh =	\$0.00

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TOTAL ENERGY CHARGES:	\$0.019037	/ kWh *	2,223,360 kWh =	\$42,326.66
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SUB-TOTAL				\$81,420.75
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<b>Total OMEGA JV5 Invoice:</b>				<b>\$81,420.75</b>
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1111 Schrock Rd, Suite 100  
Columbus, Ohio 43229  
Phone: (614) 540-1111  
Fax: (614) 540-1078

**City of Napoleon**

Gregory J. Heath, Finance Director  
255 W. Riverview Ave., P.O. Box 151  
Napoleon, Ohio 43545-0151

INVOICE NUMBER: 198635  
INVOICE DATE: 7/3/2017  
DUE DATE: 7/13/2017  
TOTAL AMOUNT DUE: \$55,367.84  
CUSTOMER NUMBER: 5020  
CUSTOMER P.O. NUMBER: BL980397  
MAKE CHECKS PAYABLE TO: OMEGA JV5

PLEASE WRITE INVOICE NUMBER ON REMITTANCE  
AND RETURN YELLOW INVOICE COPY.

**Debt Service - OMEGA JV5**

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**FOR THE MONTH/YEAR OF:**     July, 2017

Financing CHARGES:

Debt Service	\$17.930000	/ kW *	3,088 kW =	\$55,367.84
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**Total OMEGA JV5 Financing Invoice:**

**\$55,367.84**

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**AMERICAN MUNICIPAL POWER, INC.**

1111 Schrock Rd, Suite 100  
COLUMBUS, OHIO 43229  
PHONE: (614) 540-1111  
FAX: (614) 540-1078

**INVOICE NUMBER:** 198653  
**INVOICE DATE:** 7/5/2017  
**DUE DATE:** 7/21/2017  
**TOTAL AMOUNT DUE:** \$1,545.40  
**CUSTOMER NUMBER:** 5020  
**CUSTOMER P.O. #:**

**City of Napoleon**

Gregory J. Heath, Finance Director  
255 W. Riverview Ave., P.O. Box 151  
Napoleon, OH 43545-0151

PLEASE WRITE INVOICE NUMBER ON  
REMITTANCE AND RETURN YELLOW INVOICE  
COPY. MAKE CHECK PAYABLE TO AMP, INC.

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**Omega JV6**

Project Capacity: 300 kW

**Year 2017**

Electric Fixed

300 kW \* 5.151 per kW-Month

Total

AMOUNT DUE FOR : July, 2017 - Electric Fixed \$1,545.40

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**TOTAL CHARGES**

**\$1,545.40**

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3456  
Page 1 of 6

**ACCOUNT NUMBER: 12-6239-05**  
**AMERICAN MUNICIPAL POWER, INC.**  
**RATE STABILIZATION FUND FOR**  
**THE CITY OF NAPOLEON OHIO**  
**STABILIZATION FUND**

This statement is for the period from  
June 1, 2017 to June 30, 2017



000001253 01 SP 000638672424331 S

AMERICAN MUNICIPAL POWER INC  
ATTN TREASURY DEPT  
1111 SCHROCK RD  
COLUMBUS OH 43229

### **QUESTIONS?**

If you have any questions regarding  
your account or this statement, please  
contact your Account Manager or Analyst.

**Account Manager:**  
**SCOTT R. MILLER**  
CN-OH-TT4  
CN-OH-W6CT  
425 WALNUT ST.  
CINCINNATI, OH 45202  
**Phone 614-849-3402**  
**E-mail [scott.miller6@usbank.com](mailto:scott.miller6@usbank.com)**

**Analyst:**  
CAROLYN KETCHMARK  
**Phone 651-466-6197**



00- -M -P -PC -182-04 00345604 3456  
0053993-00-00546-04 Page 2 of 6

**ACCOUNT NUMBER: 12-6239-05**  
**AMERICAN MUNICIPAL POWER, INC.**  
**RATE STABILIZATION FUND FOR**  
**THE CITY OF NAPOLEON OHIO**  
**STABILIZATION FUND**

This statement is for the period from  
June 1, 2017 to June 30, 2017

## **SPECIAL MESSAGES**

### **Faster trade settlement begins September 5**

To better meet the needs of all investors, the financial services industry is shortening the settlement cycle for stocks, corporate bonds, municipal bonds, unit investment trusts and financial products comprised of these security types (such as exchange-traded funds). The standard settlement cycle of three business days after the trade date will be changed to two business days on September 5, 2017.

This should result in reduced credit risk, cash deployment efficiencies, increased market liquidity and lower collateral requirements. It also will align the U.S. market with other major international markets. For example, 23 European Union members moved to a two-day settlement cycle in October 2014. U.S. Bank has been participating in industry-wide testing to ensure readiness for the shortened settlement cycle.





ACCOUNT NUMBER: 12-6239-05  
AMERICAN MUNICIPAL POWER, INC.  
RATE STABILIZATION FUND FOR  
THE CITY OF NAPOLEON OHIO  
STABILIZATION FUND

This statement is for the period from  
June 1, 2017 to June 30, 2017

## MARKET VALUE SUMMARY

Current Period 06/01/17 to 06/30/17	
Beginning Market Value	\$657,891.42
Distributions	- 40,000.00
Adjusted Market Value	\$617,891.42
Investment Results	
Interest, Dividends and Other Income	382.90
Total Investment Results	\$382.90
Ending Market Value	\$618,274.32





ACCOUNT NUMBER: 12-6239-05  
AMERICAN MUNICIPAL POWER, INC.  
RATE STABILIZATION FUND FOR  
THE CITY OF NAPOLEON OHIO  
STABILIZATION FUND

This statement is for the period from  
June 1, 2017 to June 30, 2017

## ASSET DETAIL AS OF 06/30/17

Shares or Face Amount	Security Description	Market Value/ Price	Tax Cost/ Unit Cost	% of Total Yield at Market	Est Ann Inc
<b>Cash Equivalents</b>					
618,274.320	First American Government Oblig Fd Cl X #5385 31846V336	618,274.32 1.0000	618,274.32 1.00	100.0 .70 **	4,318.03
<b>Total Cash Equivalents</b>		<b>\$618,274.32</b>	<b>\$618,274.32</b>	<b>100.0</b>	<b>\$4,318.03</b>
<b>Cash</b>					
	Principal Cash	- 3,274.24	- 3,274.24	- 0.5	
	Income Cash	3,274.24	3,274.24	0.5	
	<b>Total Cash</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.0</b>	
<b>Total Assets</b>		<b>\$618,274.32</b>	<b>\$618,274.32</b>	<b>100.0</b>	<b>\$4,318.03</b>

## ASSET DETAIL MESSAGES

Time of trade execution and trading party (if not disclosed) will be provided upon request.

Publicly traded assets are valued in accordance with market quotations or valuation methodologies from financial industry services believed by us to be reliable. Assets that are not publicly traded may be reflected at values from other external sources. Assets for which a current value is not available may be reflected at a previous value or as not valued, at par value, or at a nominal value. Values shown do not necessarily reflect prices at which assets could be bought or sold. Values are updated based on internal policy and may be updated less frequently than statement generation.

For further information, please contact your Analyst.

\*\* The Yield at Market set forth in this statement for any money market fund is based on the interest rate applicable to that money market fund as of the last business day of the statement period (or most recent daily rate available) and may not be relied upon as (i) a yield estimate for the statement period as a whole, or (ii) a guarantee of future performance.





**ACCOUNT NUMBER: 12-6239-05**  
**AMERICAN MUNICIPAL POWER, INC.**  
**RATE STABILIZATION FUND FOR**  
**THE CITY OF NAPOLEON OHIO**  
**STABILIZATION FUND**

This statement is for the period from  
June 1, 2017 to June 30, 2017

## CASH SUMMARY

	Income Cash	Principal Cash	Total Cash
<b>Beginning Cash Balance as of 06/01/2017</b>	<b>\$2,891.34</b>	<b>- \$2,891.34</b>	<b>\$0.00</b>
Taxable Interest	382.90		382.90
Cash Disbursements		- 40,000.00	- 40,000.00
Net Money Market Activity		39,617.10	39,617.10
<b>Ending Cash Balance as of 06/30/2017</b>	<b>\$3,274.24</b>	<b>- \$3,274.24</b>	<b>\$0.00</b>



ACCOUNT NUMBER: 12-6239-05  
AMERICAN MUNICIPAL POWER, INC.  
RATE STABILIZATION FUND FOR  
THE CITY OF NAPOLEON OHIO  
STABILIZATION FUND

This statement is for the period from  
June 1, 2017 to June 30, 2017

## TRANSACTION DETAIL

Date Posted	Description	Income Cash	Principal Cash	Tax Cost
	<b>Beginning Balance 06/01/2017</b>	<b>\$2,891.34</b>	<b>- \$2,891.34</b>	<b>\$657,891.42</b>
06/01/17	Interest Earned On First Am Govt Ob Fd CI X Interest From 5/1/17 To 5/31/17 31846V336	382.90		
06/02/17	Purchased 382.9 Units Of First Am Govt Ob Fd CI X Trade Date 6/2/17 31846V336		- 382.90	382.90
06/13/17	Cash Disbursement Paid To American Municipal Power Wire Transfer Cmk56379 Per Req #6 Dtd 6/9/17 Wire To American Municipal Power Req Reimb Pymt For Var Exp Napoleon		- 40,000.00	
06/13/17	Sold 40,000 Units Of First Am Govt Ob Fd CI X Trade Date 6/13/17 31846V336		40,000.00	- 40,000.00
	<b>Ending Balance 06/30/2017</b>	<b>\$3,274.24</b>	<b>- \$3,274.24</b>	<b>\$618,274.32</b>



## Glossary

**Accretion** - The accumulation of the value of a discounted bond until maturity.

**Adjusted Prior Market Realized Gain/Loss** - The difference between the proceeds and the Prior Market Value of the transaction.

**Adjusted Prior Market Unrealized Gain/Loss** - The difference between the Market Value and the Adjusted Prior Market Value.

**Adjusted Prior Market Value** - A figure calculated using the beginning Market Value for the fiscal year, adjusted for all asset related transactions during the period, employing an average cost methodology.

**Amortization** - The decrease in value of a premium bond until maturity.

**Asset** - Anything owned that has commercial exchange value. Assets may consist of specific property or of claims against others, in contrast to obligations due to others (liabilities).

**Bond Rating** - A measurement of a bond's quality based upon the issuer's financial condition. Ratings are assigned by independent rating services, such as Moody's, or S&P, and reflect their opinion of the issuer's ability to meet the scheduled interest and principal repayments for the bond.

**Cash** - Cash activity that includes both income and principal cash categories.

**Change in Unrealized Gain/Loss** - Also reported as Gain/Loss in Period in the Asset Detail section. This figure shows the market appreciation (depreciation) for the current period.

**Cost Basis (Book Value)** - The original price of an asset, normally the purchase price or appraised value at the time of acquisition. Book Value method maintains an average cost for each asset.

**Cost Basis (Tax Basis)** - The original price of an asset, normally the purchase price or appraised value at the time of acquisition. Tax Basis uses client determined methods such as Last-In-First-Out (LIFO), First-In-First-Out (FIFO), Average, Minimum Gain, and Maximum Gain.

**Ending Accrual** - (Also reported as Accrued Income) Income earned but not yet received, or expenses incurred but not yet paid, as of the end of the reporting period.

**Estimated Annual Income** - The amount of income a particular asset is anticipated to earn over the next year. The shares multiplied by annual income rate.

**Estimated Current Yield** - The annual rate of return on an investment expressed as a percentage. For stocks, yield is calculated by taking the annual dividend payments divided by the stock's current share price. For bonds, yield is calculated by the coupon rate divided by the bond's market price.

**Ex-Dividend Date** - (Also reported as Ex-Date) For stock trades, the person who owns the security on the ex-dividend date will earn the dividend, regardless of who currently owns the stock.

**Income Cash** - A category of cash comprised of ordinary earnings derived from investments, usually dividends and interest.

**Market Value** - The price per unit multiplied by the number of units.

**Maturity Date** - The date on which an obligation or note matures.

**Payable Date** - The date on which a dividend, mutual fund distribution, or interest on a bond will be made.

**Principal Cash** - A category of cash comprised of cash, deposits, cash withdrawals and the cash flows generated from purchases or sales of investments.

**Realized Gain/Loss Calculation** - The Proceeds less the Cost Basis of a transaction.

**Settlement Date** - The date on which a trade settles and cash or securities are credited or debited to the account.

**Trade Date** - The date a trade is legally entered into.

**Unrealized Gain/Loss** - The difference between the Market Value and Cost Basis at the end of the current period.

**Yield on/at Market** - The annual rate of return on an investment expressed as a percentage. For stocks, yield is calculated by the annual dividend payments divided by the stock's current share price. For bonds, yield is calculated by the coupon rate divided by the bond's market price.

The terms defined in this glossary are only for use when reviewing your account statement. Please contact your Relationship Manager with any questions.



U.S. Bank  
1555 N. Rivercenter Dr.  
Suite 300  
Milwaukee, WI 53212

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-P -182

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AMERICAN MUNICIPAL POWER INC  
ATTN TREASURY DEPT  
1111 SCHROCK RD  
COLUMBUS OH 43229



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

<b>2017 AUGUST - ELECTRIC PSCAF - BILLING COMPARISONS TO PRIOR PERIODS - As Corrected for PSCAF</b>										
Rate Comparisons to Prior Month and Prior Year for Same Period										
	Service	Service	Current	Prior Month	Prior Year			Current	Prior Month	Prior Year
	Usage	Units	August	July	August			August	July	August
Customer Type	Usage	Units	2017 Rate	2017 Rate	2016 Rate		Usage	Units	2017 Rate	2016 Rate
<i>Customer Type -&gt;</i>	<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
Power Supply Demand Charge										
PSCAF - Monthly Factor	978	kWh	\$10.24	\$10.96	\$4.58		1,976	kWh	\$20.69	\$22.15
kWh Tax- Level 1	978	kWh	\$4.55	\$4.55	\$4.55		1,976	kWh	\$9.19	\$9.19
kWh Tax- Level 2										
kWh Tax- Level 3										
<b>Total Electric</b>			<b>\$112.92</b>	<b>\$113.64</b>	<b>\$107.26</b>			<b>\$213.12</b>	<b>\$214.58</b>	<b>\$201.68</b>
Water	6	CCF	\$46.23	\$41.37	\$39.57		11	CCF	\$75.25	\$66.37
Sewer (w/Stm.Sew. & Lat.)	6	CCF	\$70.89	\$64.63	\$54.58		11	CCF	\$98.89	\$90.08
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50			\$9.50	\$9.50	\$9.50
Refuse (Rate/Service)			\$18.00	\$18.00	\$18.00			\$18.00	\$18.00	\$18.00
<b>Sub-Other Services</b>			<b>\$144.62</b>	<b>\$133.50</b>	<b>\$121.65</b>			<b>\$201.64</b>	<b>\$183.95</b>	<b>\$167.35</b>
<b>Total Billing - All Services</b>			<b>\$257.54</b>	<b>\$247.14</b>	<b>\$228.91</b>			<b>\$414.76</b>	<b>\$398.53</b>	<b>\$369.03</b>
<i>Verification Totals-&gt;</i>			\$257.54	\$247.14	\$228.91			\$414.76	\$398.53	\$369.03
				<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				\$10.40	\$28.63				\$16.23	\$45.73
% Inc/Dec(-) to Prior Periods				4.21%	12.51%				4.07%	12.39%
=====	=====	=====	=====	=====	=====		=====	=====	=====	=====
Cost/kWh - Electric	978	kWh	\$0.11546	\$0.11620	\$0.10967		1,976	kWh	\$0.10785	\$0.10859
% Inc/Dec(-) to Prior Periods				-0.64%	5.28%				-0.68%	5.67%
Cost/CCF - Water	6	CCF	\$7.70500	\$6.89500	\$6.59500		11	CCF	\$6.84091	\$6.03364
Cost/GALLONS - Water	4,488	GAL	\$0.01030	\$0.00922	\$0.00882		8,229	GAL	\$0.00914	\$0.00807
% Inc/Dec(-) to Prior Periods				11.75%	16.83%				13.38%	19.31%
Cost/CCF - Sewer	6	CCF	\$11.81500	\$10.77167	\$9.09667		11	CCF	\$8.99000	\$8.18909
Cost/GALLON - Sewer	4,488	GAL	\$0.01580	\$0.01440	\$0.01216		8,229	GAL	\$0.01202	\$0.01095
% Inc/Dec(-) to Prior Periods				9.69%	29.88%				9.78%	28.80%
<i>(Listed Accounts Assume SAME USAGE for kWh and Water (CCF) for All Billing Periods)</i>										
<i>(One "1" Unit CCF of Water = "Hundred Cubic Foot" = 748 Gallons)</i>										

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

2017 AUGUST - ELECTRIC PS										
Rate Comparisons to Prior Month and Prior Year										
			Current	Prior Month	Prior Year			Current	Prior Month	Prior Year
	Service	Service	August	July	August		Service	Service	August	July
Customer Type	Usage	Units	2017 Rate	2017 Rate	2016 Rate		Usage	Units	2017 Rate	2017 Rate
Customer Type ->			COMMERCIAL USER - (3 Phase w/Demand)			INDUSTRIAL USER - (3 Phase w/Demand)				
Customer Charge			\$18.00	\$18.00	\$18.00				\$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
Distribution Demand Charge	20.32	kW/Dmd	\$92.86	\$92.86	\$92.86	1510.1	kW/Dmd		\$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
Power Supply Demand Charge									\$15,296.55	\$15,296.55
PSCAF - Monthly Factor	7,040	kWh	\$73.71	\$78.92	\$32.95				\$8,614.75	\$9,223.62
kWH Tax- Level 1			\$9.66	\$9.66	\$9.66				\$9.66	\$9.66
kWH Tax- Level 2			\$20.80	\$20.80	\$20.80				\$56.24	\$56.24
kWH Tax- Level 3									\$3,087.71	\$3,087.71
Total Electric			\$876.09	\$881.30	\$835.33				\$76,849.48	\$77,458.35
Water	25	CCF	\$153.37	\$133.57	\$126.07	300	CCF		\$1,736.81	\$1,736.81
Sewer (w/Stm.Sew. & Lat.)	25	CCF	\$178.69	\$162.74	\$138.94	300	CCF		\$1,718.69	\$1,562.49
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50				\$330.00	\$330.00
Refuse (Rate/Service)			\$5.00	\$5.00	\$5.00				\$5.00	\$5.00
Sub-Other Services			\$346.56	\$310.81	\$279.51				\$3,790.50	\$3,634.30
Total Billing - All Services			\$1,222.65	\$1,192.11	\$1,114.84				\$80,639.98	\$81,092.65
Verification Totals->			\$1,222.65	\$1,192.11	\$1,114.84				\$80,639.98	\$81,092.65
				Cr.Mo to Pr.Mo	Cr.Yr to Pr.Yr					
Dollar Chg.to Prior Periods				\$30.54	\$107.81					-\$452.67
% Inc/Dec(-) to Prior Periods				2.56%	9.67%					-0.56%
Cost/kWH - Electric	7,040	kWh	\$0.12444	\$0.12518	\$0.11865	866,108	kWh		\$0.08873	\$0.08943
% Inc/Dec(-) to Prior Periods				-0.59%	4.88%					-0.78%
Cost/CCF - Water	25	CCF	\$6.13480	\$5.34280	\$5.04280	300	CCF		\$5.78937	\$5.78937
Cost/GALLONS - Water	18,701	GAL	\$0.00820	\$0.00714	\$0.00674	224,415	GAL		\$0.00774	\$0.00774
% Inc/Dec(-) to Prior Periods				14.82%	21.65%					0.00%
Cost/CCF - Sewer	25	CCF	\$7.14760	\$6.50960	\$5.55760	300	CCF		\$5.72897	\$5.20830
Cost/GALLON - Sewer	18,701	GAL	\$0.00956	\$0.00870	\$0.00743	224,415	GAL		\$0.00766	\$0.00696
% Inc/Dec(-) to Prior Periods				9.80%	28.61%					10.00%
(Listed Accounts Assume SAME USAGE)										
(One "1" Unit CCF of Water = "Hundred Gallons")										



BILLING SUMMARY AND CONSUMPTION for BILLING CYCLE - AUGUST, 2017															
AUGUST, 2017															
2017 - AUGUST BILLING WITH JULY 2017 DATA BILLING UNITS															
Class and/or Schedule	Rate Code	Jul-17 # of Bills	Jul-17 (kWh Usage)	Jul-17 Billed	Billed kVa of Demand	Cost / kWh For Month	Cost / kWh Prior 12 Mo Average	Aug-16 # of Bills	Aug-16 (kWh Usage)	Aug-16 Billed	Cost / kWh For Month	Sep-16 # of Bills	Sep-16 (kWh Usage)	Sep-16 Billed	Cost / kWh For Month
Residential (Dom-In)	E1	3,328	1,980,449	\$238,020.38	0	\$0.1202	\$0.1174	3,327	2,832,020	\$332,693.75	\$0.1175	3,339	3,439,128	\$405,561.66	\$0.1179
Residential (Dom-In) w/Ecosmart	E1E	9	4,572	\$557.24	0	\$0.1219	\$0.1195	9	7,000	\$827.07	\$0.1182	9	7,961	\$946.73	\$0.1189
Residential (Dom-In - All Electric)	E2	603	359,740	\$43,212.04	0	\$0.1201	\$0.1160	610	458,361	\$54,279.87	\$0.1184	608	519,149	\$61,850.34	\$0.1191
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	527	\$64.01	0	\$0.1215	\$0.1188	1	796	\$93.91	\$0.1180	1	1,026	\$121.06	\$0.1180
Total Residential (Domestic)		3,941	2,345,288	\$281,853.67	0	\$0.1202	\$0.1172	3,947	3,298,177	\$387,894.60	\$0.1176	3,957	3,967,264	\$468,479.79	\$0.1181
Residential (Rural-Out)	ER1	775	682,505	\$86,077.05	0	\$0.1261	\$0.1232	760	863,493	\$107,008.31	\$0.1239	760	984,416	\$122,587.50	\$0.1245
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,644	\$343.42	0	\$0.1299	\$0.1273	4	3,000	\$385.56	\$0.1285	4	3,422	\$440.00	\$0.1286
Residential (Rural-Out - All Electric)	ER2	377	369,700	\$46,197.65	0	\$0.1250	\$0.1216	383	443,608	\$54,903.94	\$0.1238	382	509,155	\$63,286.00	\$0.1243
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	1,738	\$219.44	0	\$0.1263	\$0.1230	2	1,669	\$212.18	\$0.1271	2	2,157	\$272.02	\$0.1261
Residential (Rural-Out w/Dmd)	ER3	16	18,799	\$2,316.15	297	\$0.1232	\$0.1162	16	16,942	\$2,109.31	\$0.1245	16	20,579	\$2,560.83	\$0.1244
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	6,901	\$881.97	67	\$0.1278	\$0.1205	9	8,540	\$1,073.07	\$0.1257	9	9,466	\$1,195.61	\$0.1263
Total Residential (Rural)		1,183	1,082,287	\$136,035.68	364	\$0.1257	\$0.1224	1,174	1,337,252	\$165,692.37	\$0.1239	1,173	1,529,195	\$190,341.96	\$0.1245
Commercial (1 Ph-In - No Dmd)	EC2	76	51,306	\$7,466.00	13	\$0.1455	\$0.1385	75	48,276	\$7,085.12	\$0.1468	75	49,252	\$7,295.40	\$0.1481
Commercial (1 Ph-Out - No Dmd)	EC2O	45	7,585	\$1,510.65	0	\$0.1992	\$0.1904	46	7,669	\$1,536.40	\$0.2003	47	7,405	\$1,527.13	\$0.2062
Total Commercial (1 Ph) No Dmd		121	58,891	\$8,976.65	13	\$0.1524	\$0.1458	121	55,945	\$8,621.52	\$0.1541	122	56,657	\$8,822.53	\$0.1557
Commercial (1 Ph-In - w/Demand)	EC1	257	292,211	\$43,735.16	1879	\$0.1497	\$0.1435	258	352,786	\$50,743.54	\$0.1438	258	402,789	\$57,034.99	\$0.1416
Commercial (1 Ph-Out - w/Demand)	EC1O	26	27,624	\$4,113.22	169	\$0.1489	\$0.1421	25	30,982	\$4,512.62	\$0.1457	25	37,237	\$5,295.75	\$0.1422
Total Commercial (1 Ph) w/Demand		283	319,835	\$47,848.38	2,048	\$0.1496	\$0.1434	283	383,768	\$55,256.16	\$0.1440	283	440,026	\$62,330.74	\$0.1417
Commercial (3 Ph-Out - No Dmd)	EC4O	2	40	\$41.12	8	\$1.0280	\$0.1391	2	80	\$46.26	\$0.5783	2	40	\$41.20	\$1.0300
Total Commercial (3 Ph) No Dmd		2	40	\$41.12	8	\$1.0280	\$0.1391	2	80	\$46.26	\$0.5783	2	40	\$41.20	\$1.0300
Commercial (3 Ph-In - w/Demand)	EC3	202	1,350,746	\$174,664.25	5217	\$0.1293	\$0.1260	203	1,595,241	\$203,673.47	\$0.1277	202	1,740,671	\$223,495.26	\$0.1284
Commercial (3 Ph-Out - w/Demand)	EC3O	38	260,438	\$34,815.03	1381	\$0.1337	\$0.1247	39	317,778	\$41,164.85	\$0.1295	40	412,439	\$52,282.08	\$0.1268
Commercial (3 Ph-Out - w/Dmd.&Sub-Station)	E3SO	3	108,920	\$13,286.48	472	\$0.1220	\$0.1178	3	139,680	\$16,763.38	\$0.1200	3	145,680	\$17,795.85	\$0.1222
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	1,600	\$210.68	5	\$0.1317	\$0.1292	1	3,120	\$442.73	\$0.1419	1	4,800	\$637.44	\$0.1328
Total Commercial (3 Ph) w/Demand		244	1,721,704	\$222,976.44	7,075	\$0.1295	\$0.1253	246	2,055,819	\$262,044.43	\$0.1275	246	2,303,590	\$294,210.63	\$0.1277
Large Power (In - w/Dmd & Rct)	EL1	20	2,242,947	\$235,908.53	5365	\$0.1052	\$0.1024	21	2,731,809	\$284,732.35	\$0.1042	21	3,037,231	\$311,034.61	\$0.1024
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	1,149,393	\$108,730.64	2168	\$0.0946	\$0.0953	3	921,926	\$91,984.54	\$0.0998	3	1,112,508	\$107,637.55	\$0.0968
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	390,000	\$42,155.92	1007	\$0.1081	\$0.0993	1	398,400	\$40,709.41	\$0.1022	1	451,200	\$45,502.92	\$0.1008
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	78,979	\$16,650.41	664	\$0.2108	\$0.1480	2	75,019	\$15,989.77	\$0.2131	2	77,094	\$18,053.44	\$0.2342
Total Large Power		26	3,861,319	\$403,445.50	9,204	\$0.1045	\$0.1010	27	4,127,154	\$433,416.07	\$0.1050	27	4,678,033	\$482,228.52	\$0.1031
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	1,113,076	\$98,777.47	1961	\$0.0887	\$0.0888	1	1,050,981	\$94,370.91	\$0.0898	1	1,180,028	\$105,636.89	\$0.0895
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	853,048	\$76,890.72	1531	\$0.0901	\$0.0874	1	989,846	\$88,326.21	\$0.0892	1	1,067,043	\$94,185.61	\$0.0883
Total Industrial		2	1,966,124	\$175,668.19	3,492	\$0.0893	\$0.0881	2	2,040,827	\$182,697.12	\$0.0895	2	2,247,071	\$199,822.50	\$0.0889
Interdepartmental (In - No Dmd)	ED1	8	45,844	\$5,614.36	175	\$0.1225	\$0.1174	7	39,363	\$4,882.68	\$0.1240	8	91,948	\$10,692.83	\$0.1163
Interdepartmental (Out - w/Dmd)	ED2O	2	395	\$74.66	0	\$0.1890	\$0.1815	2	861	\$134.56	\$0.1563	2	924	\$144.21	\$0.1561
Interdepartmental (In - w/Dmd)	ED2	30	23,479	\$3,364.78	0	\$0.1433	\$0.1343	31	24,898	\$3,566.86	\$0.1433	27	26,097	\$3,716.02	\$0.1424
Interdepartmental (3Ph-In - w/Dmd)	ED3	11	196,172	\$23,322.47	693	\$0.1189	\$0.1162	11	174,247	\$21,123.86	\$0.1212	11	165,579	\$20,410.43	\$0.1233
Interdepartmental (Street Lights)	EDSL	7	62,879	\$5,850.15	0	\$0.0930	\$0.0926	7	62,879	\$5,849.08	\$0.0930	7	62,879	\$5,849.08	\$0.0930
Interdepartmental (Traffic Signals)	EDTS	9	1,679	\$155.24	0	\$0.0925	\$0.0925	9	1,649	\$152.46	\$0.0925	9	1,582	\$146.25	\$0.0924
Generators (JV2 Power Cost Only)	GJV2	1	18,698	\$412.29	41	\$0.0220	\$0.0000	1	14,549	\$61.40	\$0.0042	1	13,740	\$151.14	\$0.0110
Generators (JV5 Power Cost Only)	GJV5	1	12,861	\$283.59	21	\$0.0221	\$0.0000	1	11,829	\$49.92	\$0.0042	1	11,827	\$130.10	\$0.0110
Total Interdepartmental		69	362,007	\$37,685.78	930	\$0.1041	\$0.1086	69	330,275	\$35,820.82	\$0.1085	66	374,576	\$41,240.06	\$0.1101
SUB-TOTAL CONSUMPTION & DEMAND		5,871	11,717,495	\$1,314,531.41	23,134	\$0.1122	\$0.1102	5,871	13,629,297	\$1,531,489.35	\$0.1124	5,878	15,596,452	\$1,747,517.93	\$0.1120
Street Lights (In)	SLO	14	0	\$13.44	0	\$0.0000	\$0.0000	16	0	\$13.73	\$0.0000	16	0	\$12.99	\$0.0000
Street Lights (Out)	SLOO	2	0	\$1.92	0	\$0.0000	\$0.0000	2	0	\$0.77	\$0.0000	2	0	\$0.77	\$0.0000
Total Street Light Only		16	0	\$15.36	0	\$0.0000	\$0.0000	18	0	\$14.50	\$0.0000	18	0	\$13.76	\$0.0000
TOTAL CONSUMPTION & DEMAND		5,887	11,717,495	\$1,314,546.77	23,134	\$0.1122	\$0.1102	5,889	13,629,297	\$1,531,503.85	\$0.1124	5,896	15,596,452	\$1,747,531.69	\$0.1120

BILLING SUMMARY AND CO.																	
AUGUST, 2017																	
2017 - AUGUST BILLING WITH JULY 2017 DATA																	
Class and/or Schedule	Rate Code	# of Bills	Oct-16 (kWh Usage)	Oct-16 Billed	Cost / kWh For Month	# of Bills	Nov-16 (kWh Usage)	Nov-16 Billed	Cost / kWh For Month	# of Bills	Dec-16 (kWh Usage)	Dec-16 Billed	Cost / kWh For Month	# of Bills	Jan-17 (kWh Usage)	Jan-17 Billed	Cost / kWh For Month
Residential (Dom-In)	E1	3,324	3,116,816	\$358,640.04	\$0.1151	3,318	2,147,731	\$242,932.58	\$0.1131	3,336	1,581,730	\$183,002.56	\$0.1157	3,320	2,047,456	\$235,139.57	\$0.1148
Residential (Dom-In) w/Ecosmart	E1E	9	6,928	\$806.87	\$0.1165	9	4,777	\$550.03	\$0.1151	9	3,850	\$450.79	\$0.1171	9	4,222	\$497.76	\$0.1179
Residential (Dom-In - All Electric)	E2	608	469,940	\$54,713.23	\$0.1164	610	350,406	\$40,046.25	\$0.1143	609	334,728	\$38,111.29	\$0.1139	616	565,766	\$63,157.92	\$0.1116
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	844	\$97.71	\$0.1158	1	609	\$69.24	\$0.1137	1	463	\$53.72	\$0.1160	1	476	\$56.03	\$0.1177
Total Residential (Domestic)		3,942	3,594,528	\$414,257.85	\$0.1152	3,938	2,503,523	\$283,598.10	\$0.1133	3,955	1,920,771	\$221,618.36	\$0.1154	3,946	2,617,920	\$298,851.28	\$0.1142
Residential (Rural-Out)	ER1	759	884,230	\$107,817.96	\$0.1219	761	655,236	\$78,722.02	\$0.1201	758	608,892	\$73,171.67	\$0.1202	759	783,151	\$93,567.10	\$0.1195
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,185	\$401.26	\$0.1260	4	2,236	\$282.84	\$0.1265	4	2,668	\$327.66	\$0.1228	4	3,302	\$402.77	\$0.1220
Residential (Rural-Out - All Electric)	ER2	382	467,015	\$56,756.10	\$0.1215	381	359,421	\$42,825.95	\$0.1192	382	362,974	\$42,933.79	\$0.1183	382	501,415	\$58,868.46	\$0.1174
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	1,724	\$215.45	\$0.1250	2	1,322	\$163.49	\$0.1237	2	1,582	\$190.47	\$0.1204	2	2,472	\$291.48	\$0.1179
Residential (Rural-Out w/Dmd)	ER3	16	19,261	\$2,341.81	\$0.1216	16	17,439	\$2,051.35	\$0.1176	16	46,766	\$5,185.34	\$0.1109	16	141,108	\$15,567.40	\$0.1103
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	9,576	\$1,175.26	\$0.1227	9	8,288	\$989.52	\$0.1194	9	18,500	\$2,079.32	\$0.1124	9	21,837	\$2,483.22	\$0.1137
Total Residential (Rural)		1,172	1,384,991	\$168,707.84	\$0.1218	1,173	1,043,942	\$125,035.17	\$0.1198	1,171	1,041,382	\$123,888.25	\$0.1190	1,172	1,453,285	\$171,180.43	\$0.1178
Commercial (1 Ph-In - No Dmd)	EC2	74	52,027	\$7,461.56	\$0.1434	74	46,563	\$6,545.95	\$0.1406	75	50,946	\$7,049.12	\$0.1384	74	74,830	\$7,157.52	\$0.0957
Commercial (1 Ph-Out - No Dmd)	EC2O	45	8,002	\$1,552.94	\$0.1941	45	7,372	\$1,437.56	\$0.1950	45	8,932	\$1,620.43	\$0.1814	45	10,916	\$1,882.58	\$0.1725
Total Commercial (1 Ph) No Dmd		119	60,029	\$9,014.50	\$0.1502	119	53,935	\$7,983.51	\$0.1480	120	59,878	\$8,669.55	\$0.1448	119	85,746	\$9,040.10	\$0.1054
Commercial (1 Ph-In - w/Demand)	EC1	258	460,502	\$62,668.02	\$0.1361	258	335,821	\$47,217.20	\$0.1406	259	284,650	\$41,080.72	\$0.1443	255	273,985	\$39,684.83	\$0.1448
Commercial (1 Ph-Out - w/Demand)	EC1O	25	38,742	\$5,266.86	\$0.1359	25	30,652	\$4,264.42	\$0.1391	25	27,577	\$3,864.86	\$0.1401	25	28,864	\$4,173.69	\$0.1446
Total Commercial (1 Ph) w/Demand		283	499,244	\$67,934.88	\$0.1361	283	366,473	\$51,481.62	\$0.1405	284	312,227	\$44,945.58	\$0.1440	280	302,849	\$43,858.52	\$0.1448
Commercial (3 Ph-Out - No Dmd)	EC4O	2	40	\$41.06	\$1.0265	2	40	\$40.87	\$1.0218	2	40	\$40.84	\$1.0210	2	19,360	\$2,408.74	\$0.1244
Total Commercial (3 Ph) No Dmd		2	40	\$41.06	\$1.0265	2	40	\$40.87	\$1.0218	2	40	\$40.84	\$1.0210	2	19,360	\$2,408.74	\$0.1244
Commercial (3 Ph-In - w/Demand)	EC3	202	1,914,635	\$238,552.14	\$0.1246	203	1,651,057	\$199,730.82	\$0.1210	201	1,384,783	\$169,316.91	\$0.1223	201	1,262,393	\$157,429.94	\$0.1247
Commercial (3 Ph-Out - w/Demand)	EC3O	38	415,582	\$51,509.04	\$0.1239	38	412,387	\$49,235.84	\$0.1194	38	557,691	\$64,658.85	\$0.1159	38	414,816	\$50,699.62	\$0.1222
Commercial (3 Ph-Out - w/Dmd.&Sub-St)	E3SO	3	142,840	\$16,789.77	\$0.1175	3	133,720	\$15,002.98	\$0.1122	3	139,320	\$15,472.45	\$0.1111	3	127,120	\$14,446.02	\$0.1136
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	1	6,240	\$771.43	\$0.1236	1	5,680	\$686.81	\$0.1209	1	3,320	\$439.88	\$0.1325	1	1,840	\$263.92	\$0.1434
Total Commercial (3 Ph) w/Demand		244	2,479,297	\$307,622.38	\$0.1241	245	2,202,844	\$264,656.45	\$0.1201	243	2,085,114	\$249,888.09	\$0.1198	243	1,806,169	\$222,839.50	\$0.1234
Large Power (In - w/Dmd & Rct)	EL1	21	2,685,366	\$284,900.17	\$0.1061	20	2,303,124	\$218,711.68	\$0.0950	20	2,210,942	\$210,920.21	\$0.0954	20	1,903,088	\$193,464.07	\$0.1017
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	1,006,242	\$96,026.30	\$0.0954	3	966,087	\$86,575.44	\$0.0896	3	887,321	\$79,476.15	\$0.0896	3	862,559	\$82,241.06	\$0.0953
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	474,000	\$45,851.97	\$0.0967	1	475,200	\$44,870.95	\$0.0944	1	474,000	\$42,120.83	\$0.0889	1	428,400	\$41,057.53	\$0.0958
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	75,674	\$13,439.88	\$0.1776	2	45,195	\$8,059.22	\$0.1783	2	36,000	\$3,604.02	\$0.1001	2	57,600	\$5,119.35	\$0.0889
Total Large Power		27	4,241,282	\$440,218.32	\$0.1038	26	3,789,606	\$358,217.29	\$0.0945	26	3,608,263	\$336,121.21	\$0.0932	26	3,251,647	\$321,882.01	\$0.0990
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	1,140,292	\$99,897.30	\$0.0876	1	1,120,127	\$93,821.52	\$0.0838	1	1,026,149	\$85,785.78	\$0.0836	1	977,328	\$87,084.23	\$0.0891
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	1,004,383	\$87,514.48	\$0.0871	1	866,459	\$74,763.55	\$0.0863	1	877,066	\$77,044.35	\$0.0878	1	941,807	\$77,491.53	\$0.0823
Total Industrial		2	2,144,675	\$187,411.78	\$0.0874	2	1,986,586	\$168,585.07	\$0.0849	2	1,903,215	\$162,830.13	\$0.0856	2	1,919,135	\$164,575.76	\$0.0858
Interdepartmental (In - No Dmd)	ED1	8	42,268	\$5,155.27	\$0.1220	8	32,523	\$3,903.77	\$0.1200	8	34,023	\$3,760.94	\$0.1105	8	46,967	\$5,248.57	\$0.1118
Interdepartmental (Out - w/Dmd)	ED2O	2	785	\$123.43	\$0.1572	2	396	\$72.33	\$0.1827	2	294	\$59.69	\$0.2030	2	234	\$52.92	\$0.2262
Interdepartmental (In - w/Dmd)	ED2	27	25,226	\$3,515.77	\$0.1394	27	21,392	\$2,928.44	\$0.1369	27	36,353	\$4,716.41	\$0.1297	29	67,128	\$8,584.69	\$0.1279
Interdepartmental (3Ph-In - w/Dmd)	ED3	11	214,907	\$25,016.23	\$0.1164	11	207,490	\$23,420.90	\$0.1129	11	182,999	\$20,119.76	\$0.1099	11	244,427	\$27,245.48	\$0.1115
Interdepartmental (Street Lights)	EDSL	7	62,879	\$5,851.14	\$0.0931	7	62,879	\$5,849.08	\$0.0930	7	62,879	\$5,851.14	\$0.0931	7	62,879	\$5,531.33	\$0.0880
Interdepartmental (Traffic Signals)	EDTS	9	1,783	\$164.85	\$0.0925	9	1,716	\$158.67	\$0.0925	9	1,881	\$173.91	\$0.0925	9	1,742	\$161.06	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	16,181	\$1,059.37	\$0.0655	1	17,504	\$1,768.25	\$0.1010	1	19,755	\$1,142.63	\$0.0578	1	25,311	\$1,681.66	\$0.0664
Generators (JV5 Power Cost Only)	GJV5	1	12,410	\$812.48	\$0.0655	1	12,279	\$1,240.42	\$0.1010	1	13,591	\$786.10	\$0.0578	1	15,791	\$1,049.15	\$0.0664
Total Interdepartmental		66	376,439	\$41,698.54	\$0.1108	66	356,179	\$39,341.86	\$0.1105	66	351,775	\$36,610.58	\$0.1041	68	464,479	\$49,554.86	\$0.1067
SUB-TOTAL CONSUMPTION & DEMAND		5,857	14,780,525	\$1,636,907.15	\$0.1107	5,854	12,303,128	\$1,298,939.94	\$0.1056	5,869	11,282,665	\$1,184,612.59	\$0.1050	5,858	11,920,590	\$1,284,191.20	\$0.1077
Street Lights (In)	SLO	16	0	\$13.74	\$0.0000	16	0	\$13.73	\$0.0000	16	0	\$13.74	\$0.0000	15	0	\$13.59	\$0.0000
Street Lights (Out)	SLOO	2	0	\$0.77	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$0.77	\$0.0000	2	0	\$0.76	\$0.0000
Total Street Light Only		18	0	\$14.51	\$0.0000	18	0	\$15.65	\$0.0000	18	0	\$14.51	\$0.0000	17	0	\$14.35	\$0.0000
TOTAL CONSUMPTION & DEMAND		5,875	14,780,525	\$1,636,921.66	\$0.1107	5,872	12,303,128	\$1,298,955.59	\$0.1056	5,887	11,282,665	\$1,184,627.10	\$0.1050	5,875	11,920,590	\$1,284,205.55	\$0.1077

**BILLING SUMMARY AND CO**

AUGUST, 2017

2017 - AUGUST BILLING WITH JULY 2017 DATA

Class and/or Schedule	Rate Code	Feb-17 # of Bills	Feb-17 (kWh Usage)	Feb-17 Billed	Cost / kWh For Month	Mar-17 # of Bills	Mar-17 (kWh Usage)	Mar-17 Billed	Cost / kWh For Month	Apr-17 # of Bills	Apr-17 (kWh Usage)	Apr-17 Billed	Cost / kWh For Month	May-17 # of Bills	May-17 (kWh Usage)	May-17 Billed	Cost / kWh For Month	Jun-17 # of Bills	Jun-17 (kWh Usage)
Residential (Dom-In)	E1	3,324	2,525,869	\$303,196.39	\$0.1200	3,332	2,252,555	\$276,197.70	\$0.1226	3,336	1,787,054	\$206,305.02	\$0.1154	3,326	1,930,645	\$223,878.51	\$0.1160	3,328	1,527,015
Residential (Dom-In) w/Ecosmart	E1E	9	4,875	\$600.71	\$0.1232	9	4,307	\$543.89	\$0.1263	9	3,670	\$436.45	\$0.1189	9	3,944	\$470.40	\$0.1193	9	3,267
Residential (Dom-In - All Electric)	E2	605	798,681	\$93,166.10	\$0.1166	605	698,429	\$83,055.76	\$0.1189	608	521,473	\$57,972.50	\$0.1112	603	527,673	\$59,328.08	\$0.1124	603	342,122
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	574	\$70.37	\$0.1226	1	515	\$64.57	\$0.1254	1	408	\$48.52	\$0.1189	1	403	\$48.54	\$0.1204	1	474
Total Residential (Domestic)		3,939	3,329,999	\$397,033.57	\$0.1192	3,947	2,955,806	\$359,861.92	\$0.1217	3,954	2,312,605	\$264,762.49	\$0.1145	3,939	2,462,665	\$283,725.53	\$0.1152	3,941	1,872,878
Residential (Rural-Out)	ER1	762	942,656	\$117,717.54	\$0.1249	763	843,115	\$107,464.06	\$0.1275	762	671,645	\$80,711.49	\$0.1202	762	691,521	\$83,875.65	\$0.1213	768	570,646
Residential (Rural-Out) w/Ecosmart	ER1E	4	3,854	\$490.49	\$0.1273	4	2,660	\$355.22	\$0.1335	4	2,449	\$306.73	\$0.1252	4	2,393	\$303.91	\$0.1270	4	2,168
Residential (Rural-Out - All Electric)	ER2	380	612,505	\$75,327.02	\$0.1230	379	540,436	\$67,765.59	\$0.1254	380	433,094	\$50,945.44	\$0.1176	379	437,214	\$51,998.43	\$0.1189	380	336,298
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	2	3,072	\$378.97	\$0.1234	2	2,758	\$346.68	\$0.1257	2	2,181	\$257.53	\$0.1181	2	2,208	\$263.50	\$0.1193	2	1,599
Residential (Rural-Out w/Dmd)	ER3	16	40,277	\$4,856.65	\$0.1206	16	27,444	\$3,406.48	\$0.1241	16	27,151	\$3,112.43	\$0.1146	16	17,568	\$2,095.89	\$0.1193	16	20,548
Residential (Rural-Out - All Electric w/Dmd)	ER4	9	12,658	\$1,568.71	\$0.1239	9	10,770	\$1,365.56	\$0.1268	9	8,891	\$1,058.33	\$0.1190	9	7,954	\$967.16	\$0.1216	9	7,079
Total Residential (Rural)		1,173	1,615,022	\$200,339.38	\$0.1240	1,173	1,427,183	\$180,703.59	\$0.1266	1,173	1,145,411	\$136,391.95	\$0.1191	1,172	1,158,858	\$139,504.54	\$0.1204	1,179	938,338
Commercial (1 Ph-In - No Dmd)	EC2	74	53,225	\$7,800.15	\$0.1466	74	53,347	\$7,901.22	\$0.1481	75	44,744	\$6,356.34	\$0.1421	75	49,612	\$7,017.27	\$0.1414	75	43,400
Commercial (1 Ph-Out - No Dmd)	EC2O	45	11,063	\$1,978.58	\$0.1788	45	9,606	\$1,804.54	\$0.1879	45	8,224	\$1,544.36	\$0.1878	45	7,962	\$1,523.23	\$0.1913	45	6,560
Total Commercial (1 Ph) No Dmd		119	64,288	\$9,778.73	\$0.1521	119	62,953	\$9,705.76	\$0.1542	120	52,968	\$7,900.70	\$0.1492	120	57,574	\$8,540.50	\$0.1483	120	49,960
Commercial (1 Ph-In - w/Demand)	EC1	255	325,967	\$47,313.63	\$0.1451	256	321,809	\$47,358.58	\$0.1472	257	277,332	\$39,713.45	\$0.1432	256	304,663	\$43,027.24	\$0.1412	256	268,763
Commercial (1 Ph-Out - w/Demand)	EC1O	25	33,753	\$4,888.09	\$0.1448	26	32,531	\$4,737.46	\$0.1456	26	29,327	\$4,037.97	\$0.1377	26	32,998	\$4,512.13	\$0.1367	26	27,175
Total Commercial (1 Ph) w/Demand		280	359,720	\$52,201.72	\$0.1451	282	354,340	\$52,096.04	\$0.1470	283	306,659	\$43,751.42	\$0.1427	282	337,661	\$47,539.37	\$0.1408	282	295,938
Commercial (3 Ph-Out - No Dmd)	EC4O	2	10,480	\$1,394.50	\$0.1331	2	320	\$78.10	\$0.2441	2	160	\$55.52	\$0.3470	2	200	\$60.68	\$0.3034	2	40
Total Commercial (3 Ph) No Dmd		2	10,480	\$1,394.50	\$0.1331	2	320	\$78.10	\$0.2441	2	160	\$55.52	\$0.3470	2	200	\$60.68	\$0.3034	2	40
Commercial (3 Ph-In - w/Demand)	EC3	200	1,304,571	\$169,704.62	\$0.1301	203	1,403,998	\$182,636.69	\$0.1301	202	1,289,727	\$157,879.99	\$0.1224	202	1,223,048	\$153,154.36	\$0.1252	202	1,271,587
Commercial (3 Ph-Out - w/Demand)	EC3O	38	346,995	\$44,259.83	\$0.1276	38	343,866	\$44,728.25	\$0.1301	38	302,041	\$37,066.58	\$0.1227	38	289,144	\$36,150.35	\$0.1250	38	257,890
Commercial (3 Ph-Out - w/Dmd.&Sub-St)	E3SO	3	129,120	\$15,765.96	\$0.1221	3	122,800	\$15,112.45	\$0.1231	3	115,480	\$13,160.31	\$0.1140	3	116,920	\$13,644.18	\$0.1167	3	103,680
Commercial (3 Ph-In - w/Demand, No Ta)	EC3T	1	2,000	\$262.01	\$0.1310	1	2,120	\$279.19	\$0.1317	1	2,000	\$243.21	\$0.1216	1	1,760	\$221.06	\$0.1256	1	1,840
Total Commercial (3 Ph) w/Demand		242	1,782,686	\$229,992.42	\$0.1290	245	1,872,784	\$242,756.58	\$0.1296	244	1,709,248	\$208,350.09	\$0.1219	244	1,630,872	\$203,169.95	\$0.1246	244	1,634,997
Large Power (In - w/Dmd & Rct)	EL1	20	1,899,404	\$201,301.03	\$0.1060	20	2,001,747	\$209,227.25	\$0.1045	20	1,940,943	\$198,976.27	\$0.1025	20	2,099,798	\$212,872.23	\$0.1014	20	2,037,358
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3	865,077	\$87,292.90	\$0.1009	3	944,738	\$93,494.69	\$0.0990	3	850,735	\$82,907.22	\$0.0975	3	1,057,187	\$97,245.54	\$0.0920	3	1,065,741
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	1	334,800	\$37,097.96	\$0.1108	1	418,800	\$42,960.40	\$0.1026	1	396,000	\$37,297.21	\$0.0942	1	430,800	\$41,237.24	\$0.0957	1	368,400
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	56,176	\$8,110.51	\$0.1444	2	88,446	\$9,975.60	\$0.1128	2	74,895	\$6,902.43	\$0.0922	2	75,639	\$6,907.09	\$0.0913	2	75,664
Total Large Power		26	3,155,457	\$333,802.40	\$0.1058	26	3,453,731	\$355,657.94	\$0.1030	26	3,262,573	\$326,083.13	\$0.0999	26	3,663,424	\$358,262.10	\$0.0978	26	3,547,163
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	847,132	\$84,562.83	\$0.0998	1	1,057,395	\$101,258.49	\$0.0958	1	971,093	\$85,014.91	\$0.0875	1	1,029,587	\$88,714.06	\$0.0862	1	1,071,317
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	1	890,615	\$83,601.93	\$0.0939	1	885,784	\$82,030.37	\$0.0926	1	721,823	\$64,225.48	\$0.0890	1	1,020,333	\$82,946.17	\$0.0813	1	1,050,109
Total Industrial		2	1,737,747	\$168,164.76	\$0.0968	2	1,943,179	\$183,288.86	\$0.0943	2	1,692,916	\$149,240.39	\$0.0882	2	2,049,920	\$171,660.23	\$0.0837	2	2,121,426
Interdepartmental (In - No Dmd)	ED1	7	61,380	\$7,090.99	\$0.1155	7	53,690	\$6,335.78	\$0.1180	7	41,616	\$4,731.78	\$0.1137	8	40,216	\$4,597.85	\$0.1143	8	28,258
Interdepartmental (Out - w/Dmd)	ED2O	2	182	\$47.81	\$0.2627	2	181	\$47.96	\$0.2650	2	189	\$47.21	\$0.2498	2	457	\$80.53	\$0.1762	2	364
Interdepartmental (In - w/Dmd)	ED2	28	73,905	\$9,923.10	\$0.1343	26	63,564	\$8,662.49	\$0.1363	26	53,381	\$6,816.66	\$0.1277	26	37,834	\$4,978.74	\$0.1316	26	24,344
Interdepartmental (3Ph-In - w/Dmd)	ED3	11	298,915	\$35,486.14	\$0.1187	11	268,425	\$32,187.48	\$0.1199	11	219,570	\$24,221.35	\$0.1103	11	249,137	\$28,194.01	\$0.1132	11	198,736
Interdepartmental (Street Lights)	EDSL	7	62,879	\$5,851.54	\$0.0931	7	62,879	\$5,844.53	\$0.0929	7	62,879	\$5,851.60	\$0.0931	7	62,879	\$5,850.15	\$0.0930	7	62,879
Interdepartmental (Traffic Signals)	EDTS	9	1,852	\$171.22	\$0.0925	9	1,807	\$167.06	\$0.0925	9	1,584	\$146.45	\$0.0925	9	1,705	\$157.65	\$0.0925	9	1,543
Generators (JV2 Power Cost Only)	GJV2	1	28,385	\$1,914.57	\$0.0675	1	27,990	\$2,925.23	\$0.1045	1	24,961	\$282.56	\$0.0113	1	22,451	\$710.35	\$0.0316	1	19,326
Generators (JV5 Power Cost Only)	GJV5	1	16,122	\$1,087.43	\$0.0675	1	15,457	\$1,615.41	\$0.1045	1	13,985	\$158.31	\$0.0113	1	13,779	\$435.97	\$0.0316	1	12,735
Total Interdepartmental		66	543,620	\$61,572.80	\$0.1133	64	493,993	\$57,785.94	\$0.1170	64	418,165	\$42,255.92	\$0.1011	65	428,458	\$45,005.25	\$0.1050	65	348,185
SUB-TOTAL CONSUMPTION & DEMAND		5,849	12,599,019	\$1,454,280.28	\$0.1154	5,860	12,564,289	\$1,441,934.73	\$0.1148	5,868	10,900,705	\$1,178,791.61	\$0.1081	5,852	11,789,632	\$1,257,468.15	\$0.1067	5,861	10,808,925
Street Lights (In)	SLO	15	0	\$13.58	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	14	0	\$13.43	\$0.0000	14	0
Street Lights (Out)	SLOO	2	0	\$1.91	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.92	\$0.0000	2	0	\$1.91	\$0.0000	2	0
Total Street Light Only		17	0	\$15.49	\$0.0000	16	0	\$15.36	\$0.0000	16	0	\$15.36	\$0.0000	16	0	\$15.34	\$0.0000	16	0
TOTAL CONSUMPTION & DEMAND		5,866	12,599,019	\$1,454,295.77	\$0.1154	5,876	12,564,289	\$1,441,950.09	\$0.1148	5,884	10,900,705	\$1,178,806.97	\$0.1081	5,868	11,789,632	\$1,257,483.49	\$0.1067	5,877	10,808,925

BILLING SUMMARY AND CO												
AUGUST, 2017												
2017 - AUGUST BILLING WITH JULY 2017 DATA												
Class and/or Schedule	Rate Code	Jun-17 Billed	Cost / kWh For Month	Jul-17 # of Bills	Jul-17 (kWh Usage)	Jul-17 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	\$185,180.06	\$0.1213	3,328	1,980,449	\$238,020.38	\$0.1202	27,168,468	\$3,190,748.22	\$0.1174	3,328	56.6079%
Residential (Dom-In) w/Ecosmart	E1E	\$407.28	\$0.1247	9	4,572	\$557.24	\$0.1219	59,373	\$7,095.22	\$0.1195	9	0.1531%
Residential (Dom-In - All Electric)	E2	\$40,611.96	\$0.1187	603	359,740	\$43,212.04	\$0.1201	5,946,468	\$689,505.34	\$0.1160	607	10.3300%
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	\$57.25	\$0.1208	1	527	\$64.01	\$0.1215	7,115	\$844.93	\$0.1188	1	0.0170%
Total Residential (Domestic)		\$226,256.55	\$0.1208	3,941	2,345,288	\$281,853.67	\$0.1202	33,181,424	\$3,888,193.71	\$0.1172	3,946	67.1079%
Residential (Rural-Out)	ER1	\$72,077.49	\$0.1263	775	682,505	\$86,077.05	\$0.1261	9,181,506	\$1,130,797.84	\$0.1232	762	12.9677%
Residential (Rural-Out) w/Ecosmart	ER1E	\$284.64	\$0.1313	4	2,644	\$343.42	\$0.1299	33,981	\$4,324.50	\$0.1273	4	0.0680%
Residential (Rural-Out - All Electric)	ER2	\$41,751.02	\$0.1241	377	369,700	\$46,197.65	\$0.1250	5,372,835	\$653,559.39	\$0.1216	381	6.4732%
Res. (Rural-Out - All Electric) w/Ecosmart	ER2E	\$200.43	\$0.1253	2	1,738	\$219.44	\$0.1263	24,482	\$3,011.64	\$0.1230	2	0.0340%
Residential (Rural-Out w/Dmd)	ER3	\$2,476.25	\$0.1205	16	18,799	\$2,316.15	\$0.1232	413,882	\$48,079.89	\$0.1162	16	0.2721%
Residential (Rural-Out - All Electric w/Dmd)	ER4	\$888.79	\$0.1256	9	6,901	\$881.97	\$0.1278	130,460	\$15,726.52	\$0.1205	9	0.1531%
Total Residential (Rural)		\$117,678.62	\$0.1254	1,183	1,082,287	\$136,035.68	\$0.1257	15,157,146	\$1,855,499.78	\$0.1224	1,174	19.9683%
Commercial (1 Ph-In - No Dmd)	EC2	\$6,362.85	\$0.1466	76	51,306	\$7,466.00	\$0.1455	617,528	\$85,498.50	\$0.1385	75	1.2700%
Commercial (1 Ph-Out - No Dmd)	EC2O	\$1,367.13	\$0.2084	45	7,585	\$1,510.65	\$0.1992	101,296	\$19,285.53	\$0.1904	45	0.7696%
Total Commercial (1 Ph) No Dmd		\$7,729.98	\$0.1547	121	58,891	\$8,976.65	\$0.1524	718,824	\$104,784.03	\$0.1458	120	2.0396%
Commercial (1 Ph-In - w/Demand)	EC1	\$40,193.38	\$0.1495	257	292,211	\$43,735.16	\$0.1497	3,901,278	\$559,770.74	\$0.1435	257	4.3698%
Commercial (1 Ph-Out - w/Demand)	EC1O	\$3,967.06	\$0.1460	26	27,624	\$4,113.22	\$0.1489	377,462	\$53,634.13	\$0.1421	25	0.4323%
Total Commercial (1 Ph) w/Demand		\$44,160.44	\$0.1492	283	319,835	\$47,848.38	\$0.1496	4,278,740	\$613,404.87	\$0.1434	282	4.8021%
Commercial (3 Ph-Out - No Dmd)	EC4O	\$41.04	\$1.0260	2	40	\$41.12	\$1.0280	30,840	\$4,289.93	\$0.1391	2	0.0340%
Total Commercial (3 Ph) No Dmd		\$41.04	\$1.0260	2	40	\$41.12	\$1.0280	30,840	\$4,289.93	\$0.1391	2	0.0340%
Commercial (3 Ph-In - w/Demand)	EC3	\$161,852.65	\$0.1273	202	1,350,746	\$174,664.25	\$0.1293	17,392,457	\$2,192,091.10	\$0.1260	202	3.4343%
Commercial (3 Ph-Out - w/Demand)	EC3O	\$33,508.33	\$0.1299	38	260,438	\$34,815.03	\$0.1337	4,331,067	\$540,078.65	\$0.1247	38	0.6506%
Commercial (3 Ph-Out - w/Dmd.&Sub-St)	E3SO	\$12,477.42	\$0.1203	3	108,920	\$13,286.48	\$0.1220	1,525,280	\$179,717.25	\$0.1178	3	0.0510%
Commercial (3 Ph-In - w/Demand, No Tax)	EC3T	\$233.64	\$0.1270	1	1,600	\$210.68	\$0.1317	36,320	\$4,692.00	\$0.1292	1	0.0170%
Total Commercial (3 Ph) w/Demand		\$208,072.04	\$0.1273	244	1,721,704	\$222,976.44	\$0.1295	23,285,124	\$2,916,579.00	\$0.1253	244	4.1530%
Large Power (In - w/Dmd & Rct)	EL1	\$213,321.76	\$0.1047	20	2,242,947	\$235,908.53	\$0.1052	27,093,757	\$2,775,370.16	\$0.1024	20	0.3444%
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	\$100,329.11	\$0.0941	3	1,149,393	\$108,730.64	\$0.0946	11,689,514	\$1,113,941.14	\$0.0953	3	0.0510%
Large Power (Out - w/Dmd & Rct, w/SbCr)	EL2O	\$39,487.89	\$0.1072	1	390,000	\$42,155.92	\$0.1081	5,040,000	\$500,350.23	\$0.0993	1	0.0170%
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	\$7,986.26	\$0.1055	2	78,979	\$16,650.41	\$0.2108	816,381	\$120,797.98	\$0.1480	2	0.0340%
Total Large Power		\$361,125.02	\$0.1018	26	3,861,319	\$403,445.50	\$0.1045	44,639,652	\$4,510,459.51	\$0.1010	26	0.4465%
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	\$92,026.12	\$0.0859	1	1,113,076	\$98,777.47	\$0.0887	12,584,505	\$1,116,950.51	\$0.0888	1	0.0170%
Industrial (In - w/Dmd & Rct, No/SbCr)	EI2	\$87,223.59	\$0.0831	1	853,048	\$76,890.72	\$0.0901	11,168,316	\$976,243.99	\$0.0874	1	0.0170%
Total Industrial		\$179,249.71	\$0.0845	2	1,966,124	\$175,668.19	\$0.0893	23,752,821	\$2,093,194.50	\$0.0881	2	0.0340%
Interdepartmental (In - No Dmd)	ED1	\$3,502.62	\$0.1240	8	45,844	\$5,614.36	\$0.1225	558,096	\$65,517.44	\$0.1174	8	0.1304%
Interdepartmental (Out - w/Dmd)	ED2O	\$69.99	\$0.1923	2	395	\$74.66	\$0.1890	5,262	\$955.30	\$0.1815	2	0.0340%
Interdepartmental (In - w/Dmd)	ED2	\$3,380.02	\$0.1388	30	23,479	\$3,364.78	\$0.1433	477,601	\$64,153.98	\$0.1343	28	0.4677%
Interdepartmental (3Ph-In - w/Dmd)	ED3	\$23,854.96	\$0.1200	11	196,172	\$23,322.47	\$0.1189	2,620,604	\$304,603.07	\$0.1162	11	0.1871%
Interdepartmental (Street Lights)	EDSL	\$5,830.15	\$0.0927	7	62,879	\$5,850.15	\$0.0930	754,548	\$69,858.97	\$0.0926	7	0.1191%
Interdepartmental (Traffic Signals)	EDTS	\$142.67	\$0.0925	9	1,679	\$155.24	\$0.0925	20,523	\$1,897.49	\$0.0925	9	0.1531%
Generators (JV2 Power Cost Only)	GJV2	\$570.31	\$0.0295	1	18,698	\$412.29	\$0.0220	248,851	\$11,855.18	\$0.0476	1	0.0170%
Generators (JV5 Power Cost Only)	GJV5	\$375.81	\$0.0295	1	12,861	\$283.59	\$0.0221	162,666	\$7,457.51	\$0.0458	1	0.0170%
Total Interdepartmental		\$37,726.53	\$0.1084	69	362,007	\$37,685.78	\$0.1041	4,848,151	\$526,298.94	\$0.1086	66	1.1254%
SUB-TOTAL CONSUMPTION & DEMAND		\$1,182,039.93	\$0.1094	5,871	11,717,495	\$1,314,531.41	\$0.1122	149,892,722	\$16,512,704.27	\$0.1102	5,862	99.7109%
Street Lights (In)	SLO	\$13.44	\$0.0000	14	0	\$13.44	\$0.0000	0	\$162.29	\$0.0000	15	0.2551%
Street Lights (Out)	SLOO	\$1.91	\$0.0000	2	0	\$1.92	\$0.0000	0	\$17.25	\$0.0000	2	0.0340%
Total Street Light Only		\$15.35	\$0.0000	16	0	\$15.36	\$0.0000	0	\$179.54	\$0.0000	17	0.2891%
TOTAL CONSUMPTION & DEMAND		\$1,182,055.28	\$0.1094	5,887	11,717,495	\$1,314,546.77	\$0.1122	149,892,722	\$16,512,883.81	\$0.1102	5,879	100.0000%

# Electric Department Report July 2017

There were 24 callout/outages during the month of July. 3 outages were caused by animals. 2 callouts were to turn customers back on. 2 callouts were phone company issues. 5 outages were caused by tree branches. 7 outages/callouts were customer issues. 1 callout was a balloon on secondary wires. 1 outage was caused by a tractor pulling down wires. 3 outages were caused by electrical equipment failure.

**Line Department/Service Truck:** Crews worked on Co. Rd. R rebuild. Linemen replaced wire and poles brought down by storm cell at Rd. N and St. Rt. 108 and cleaned up debris after storm. Crews worked on new Senior Center service. Crews helped with tree at 603 Avon. Crews replaced a broken fiberglass light pole at Oakwood Park. Linemen relocated a transformer pole on Rd. 16b. Crews installed a URD service on Rd. V. Crews replaced a transformer pole and upgraded service on Rt. 6. Crews set pole and transferred secondary at 426 W. Clinton. Linemen pulled 3 phase primary for rehabilitation center on Oakwood. Line crews pulled in a URD's on 14C and primary URD on Rd. V. Line crews helped with tree trimming on P-3. Crews worked on upgrades for the Park Street Project. Crews hooked up temporary service for Women's Pregnancy Center. Crews installed a URD for building at T & 10. The service truck completed work orders; completed electric line locates and helped line crews as needed.

**Substation Department:** Substation personnel tested equipment, mowed, worked on NERC compliance and detailed reporting and submissions.

**Forestry Department:** Jamie and Jerry trimmed trees on Avon, Orchard, Sheffield, East Riverview, boat ramp, Haley, W. Main, P-3, Huddle Road, Park St., Pleasant View Trailer Park at 538 Huddle Rd.

**Storeroom/Inventory/Metering Dept.:** Shawn Druhot read meters, completed work orders, ordered and cleaned inventory and helped line crews as needed.

The **Peak Load** for July, 2017 was 28.73 MW occurring on the 19<sup>th</sup> @ 7:30 P.M. This was a decrease of 1.37 MW compared to July, 2016. The average load for July, 2017 was 17.01 MW. This was a decrease of .14 MW compared to July 2016. The JV-2 operated 7 days in July and generated 5.27 MWh. The Turbines ran on 7 different days in July and generated 1,203 MWh for the month. The AMP solar field generated 523.55 MWh this month which was 65MWh more than July, 2016. The Amp Solar field had a peak of 3.29 MW. This was an increase of .08 MW compared to July, 2016.

DPC 8/4/17



# City of Napoleon, Ohio



## SUMMARY OF JULY 2017 OUTAGE/STANDBY CALL-OUTS

### **July 1, 2017:**

Electric personnel were dispatched at 6:00 p.m. to County Road 15 due to a power outage. The outage lasted one hour and affected eight customers. The outage was due to an animal that got into the electric lines and blew a fuse. The personnel replaced the fuse.

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### **July 2, 2017:**

Electric personnel were dispatched at 11:45 a.m. to the 200 block of N. Perry St. due to a power outage. The outage lasted one hour and affected ten customers. The outage was due to an animal that got into the electric lines and blew a fuse. The personnel replaced the fuse.

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### **July 6, 2017:**

One employee was dispatched at 3:30 p.m. by City Hall to turn on electric at various locations.

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### **July 7, 2017:**

One employee was dispatched at 6:30 a.m. to Scott St. due to a phone line that was lying across the road. The employee tightened and raised the phone line and contacted the Phone Company to repair it properly.

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### **July 7, 2017:**

One employee was dispatched at 8:30 p.m. to 317 W. Clinton St. due to a power outage. The outage lasted one hour and affected one customer. The outage was due to the storm that tore the mast off the house. The customer called an electrician to repair the service and the employee repaired the damaged wire and connected the service.

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### **July 7, 2017:**

Electric personnel were dispatched at 11:50 p.m. to 11739 County Road U due to a power outage. The outage lasted two hours and ten minutes and affected three customers. The outage was due to a customer that dug into underground wire. The personnel repaired the wire.

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### **July 8, 2017:**

Electric personnel were dispatched at 3:00 p.m. to 11739 County Road V due to a broken electric pole. The personnel put pike poles on pole to hold until the new underground service was installed.

**July 8, 2017:**

Electric personnel were dispatched at 4:00 p.m. to 517 E. Washington St. due to a power outage. The outage lasted two hours and affected one customer. The outage was due to a tree that fell on the electric lines. The personnel removed the large tree and put up a new electric service and connected the service.

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**July 8, 2017:**

Electric personnel were dispatched at 9:40 p.m. to T622 County Road 16 due to a power outage. The outage lasted two hours and affected one customer. The outage was due to a tractor that took the primary wire down. The personnel repaired the primary and replaced a line fuse.

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**July 10, 2017:**

Electric personnel were dispatched at 3:40 p.m. to 725 Westmoreland Ave. due to their generator not shutting off. It was the customer's problem.

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**July 10, 2017:**

Electric personnel were dispatched at 3:53 p.m. to 603 Avon Pl. due to a power outage. The outage lasted forty five minutes and affected one customer. The outage was due to a tree branch that took down the electric service. The personnel removed the tree branch and reconnected the service.

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**July 12, 2017:**

Electric personnel were dispatched at 3:15 a.m. to 12455 County Road P3 due to a power outage. The outage lasted forty five minutes and affected one customer. The outage was due to a wet tree branch that got into the electric wires and blew a fuse. The personnel cut back the branch and replaced the fuse.

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**July 12, 2017:**

Electric personnel were dispatched at 5:07 a.m. to 14143 County Road Z due to a power outage. The outage lasted two hours and affected two customers. The outage was due to a bad transformer. The personnel replaced the transformer.

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**July 14, 2017:**

Electric personnel were dispatched at 6:35 a.m. to Avon Pl. due to a broken pole due to an accident. The pole was a Telephone pole.

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**July 14, 2017:**

Electric personnel were dispatched at 3:53 p.m. to the solar field to check out the power. The personnel referred the call out to Todd Wachtman.



**July 15, 2017:**

Electric personnel were dispatched at 12:10 p.m. to Appian Ave. due to balloons' being in electric lines. The personnel removed the balloons' from the secondary electric lines.

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**July 15, 2017:**

Electric personnel were dispatched at 5:15 p.m. to 33 Sunnydale Ln. due to a power outage. The outage lasted thirty minutes and affected one customer. The outage was due to a tripped breaker. The personnel turned on the breaker.

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**July 19, 2017:**

Electric personnel were dispatched at 3:21 p.m. to Kenilworth Ave., Bales Rd., & Westmoreland Ave. due to a power outage. The outage lasted one half hour and affected 51 customers. The outage was due to a bad fuse. The personnel replaced the fuse.

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**July 19, 2017:**

One employee was dispatched at 5:07 p.m. to 1115 Chelsea Ave. due to half power. When the employee arrived they had full power and the employee checked everything and it was all fine.

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**July 23, 2017:**

One employee was dispatched at 8:50 p.m. to County Road 12 & O3 due to a power outage. The outage lasted forty five minutes and affected ten customers. The outage was due to an old wire connector that burnt in half and blew a fuse. The personnel put in a new wire connector and replaced the fuse.

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**July 24, 2017:**

Electric personnel were dispatched at 6:49 p.m. to 16419 County Road R due to customer's main breaker being tripped at the pole. The personnel turned on the breaker.

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**July 28, 2017:**

Electric personnel were dispatched at 5:48 p.m. to County Road V & 17 and 538 Huddle Rd. lot #4 to remove tree branches from there electric lines.

---

**July 29, 2017:**

Electric personnel were dispatched at 11:21 p.m. to 10871 County Road T due to a power outage. The outage lasted one half hour and affected one customer. The outage was due to an animal that got into the electric lines and blew a fuse. The personnel replaced the fuse.

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**July 31, 2017:**

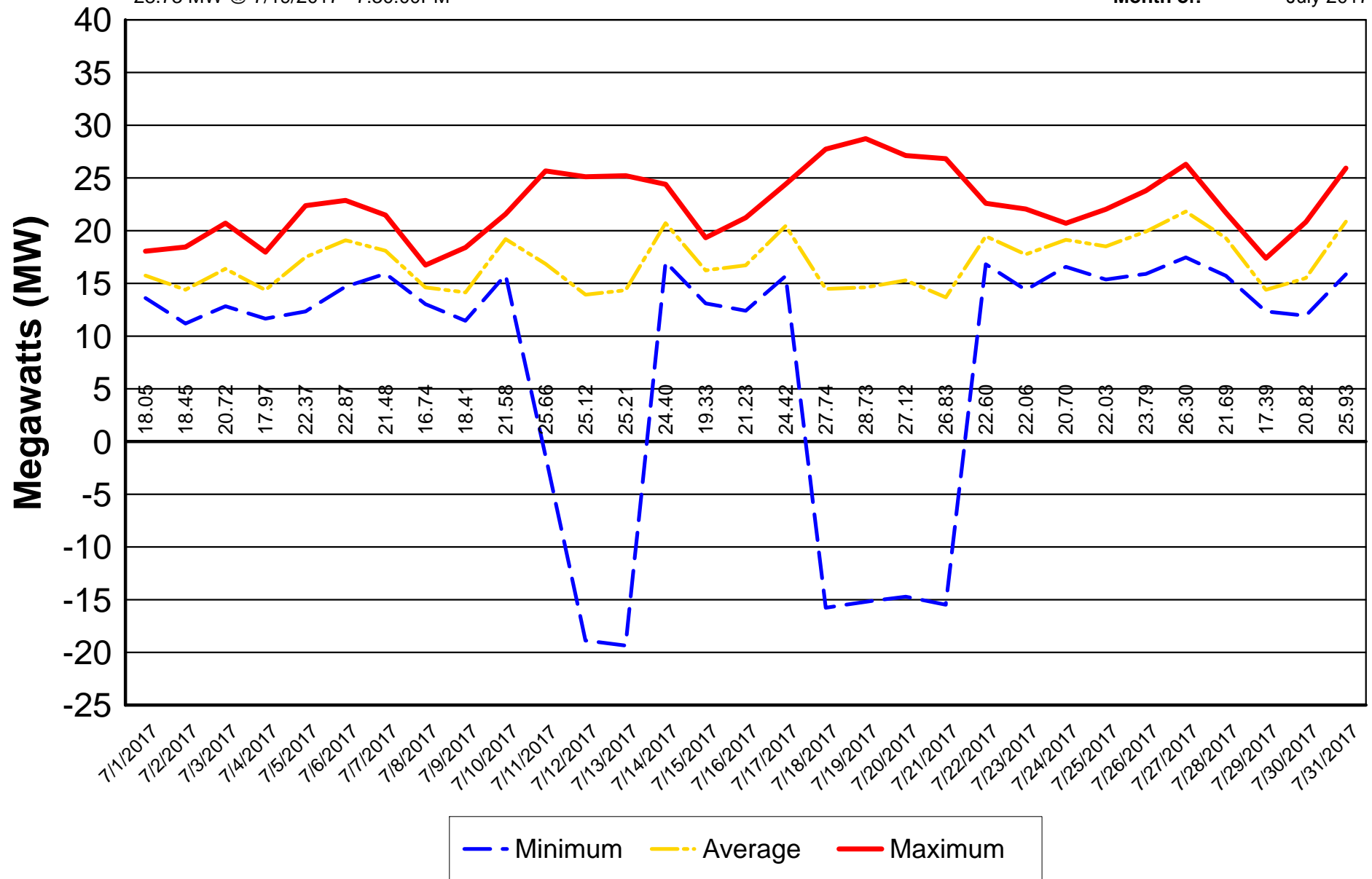
One employee was dispatched at 3:32 p.m. by City Hall to turn on electric at 158 ½ North St.

# Napoleon Power & Light

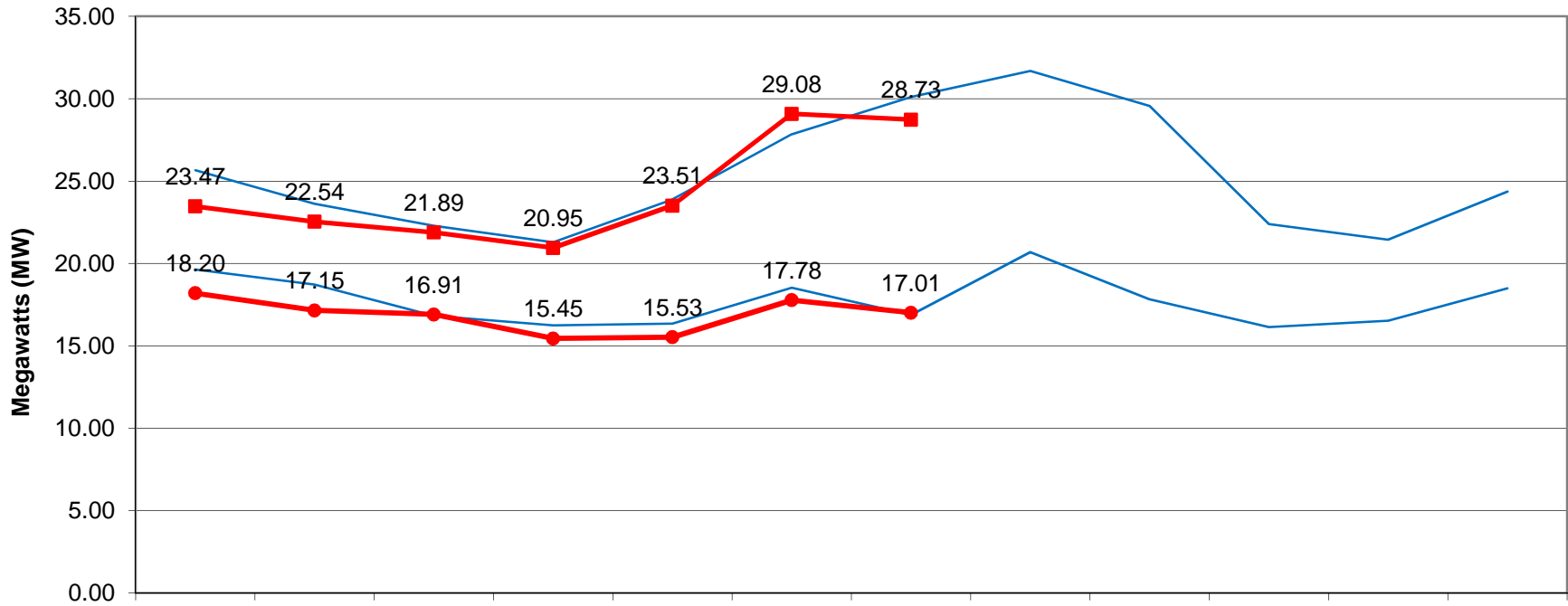
## System Load

Peak Load:  
28.73 MW @ 7/19/2017 7:30:00PM

Month of: July 2017



# NAPOLEON POWER & LIGHT



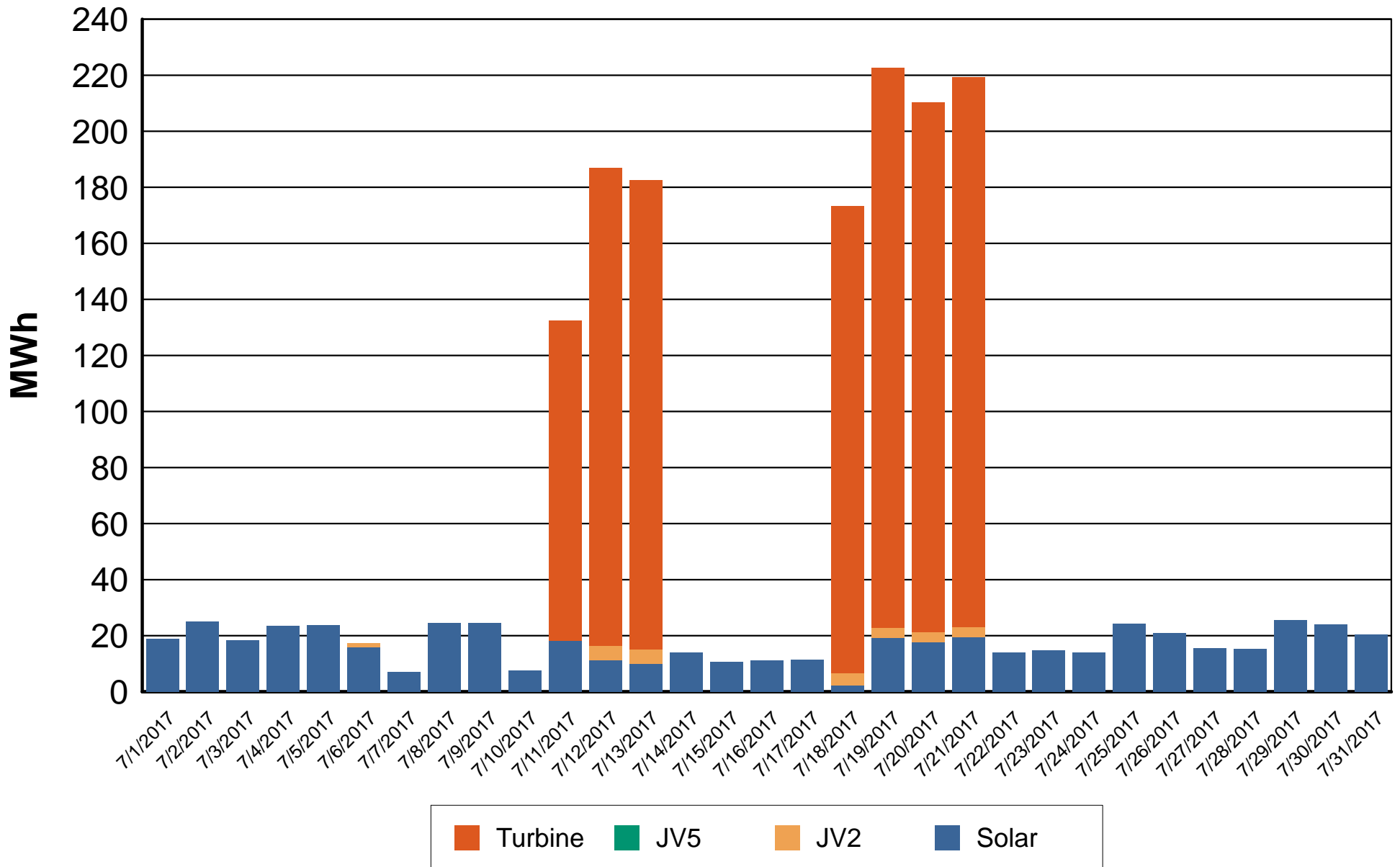
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016
— 2016 MAX	25.66	23.63	22.29	21.29	23.89	27.84	30.10	31.68	29.55	22.40	21.45	24.36
— 2016 AVG	19.63	18.73	16.83	16.24	16.35	18.52	16.87	20.69	17.82	16.14	16.52	18.50
— 2017 MAX	23.47	22.54	21.89	20.95	23.51	29.08	28.73					
— 2017 AVG	18.20	17.15	16.91	15.45	15.53	17.78	17.01					

— 2016 MAX — 2016 AVG — 2017 MAX — 2017 AVG

# Napoleon Power & Light

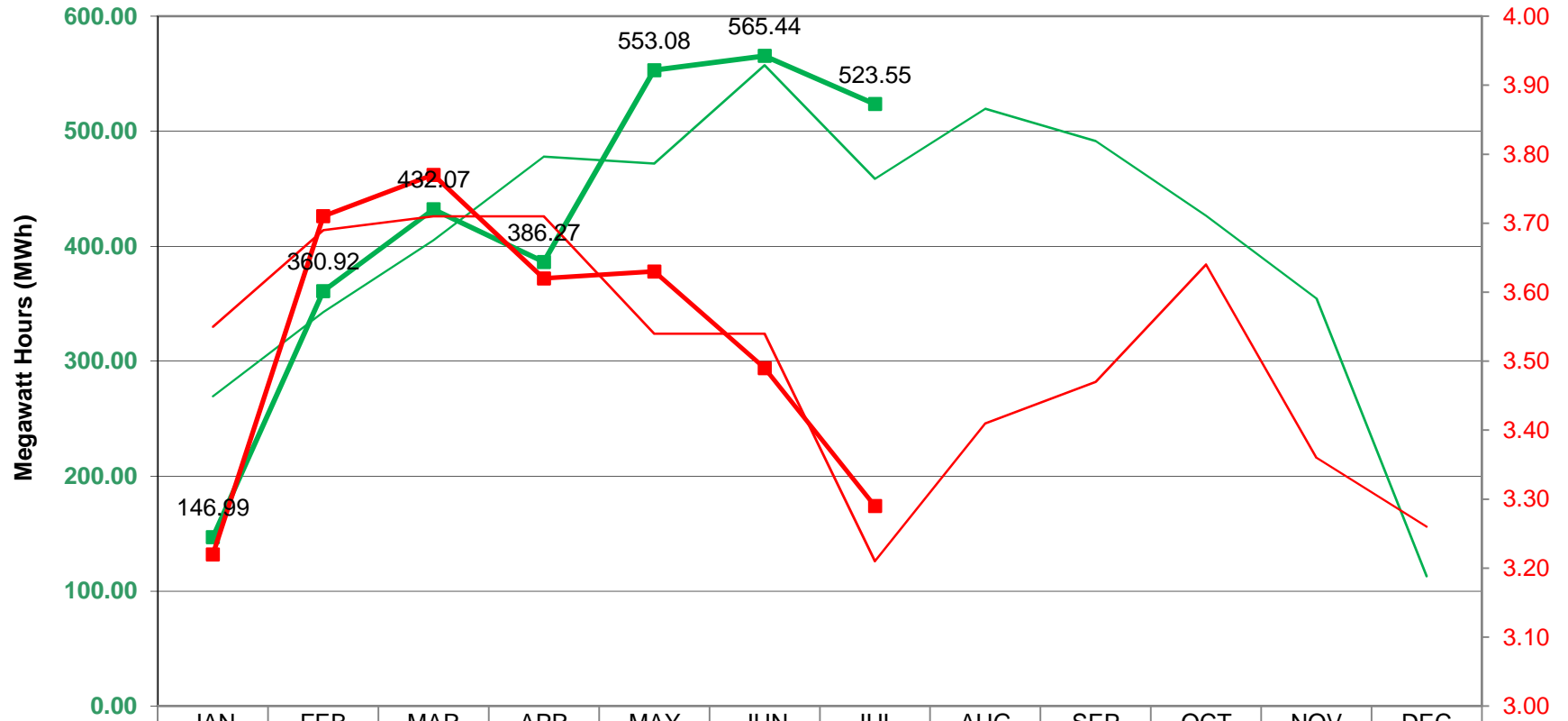
## Daily Generation Output

July 2017



# NAPOLEON POWER & LIGHT

Solar Field Output Trend

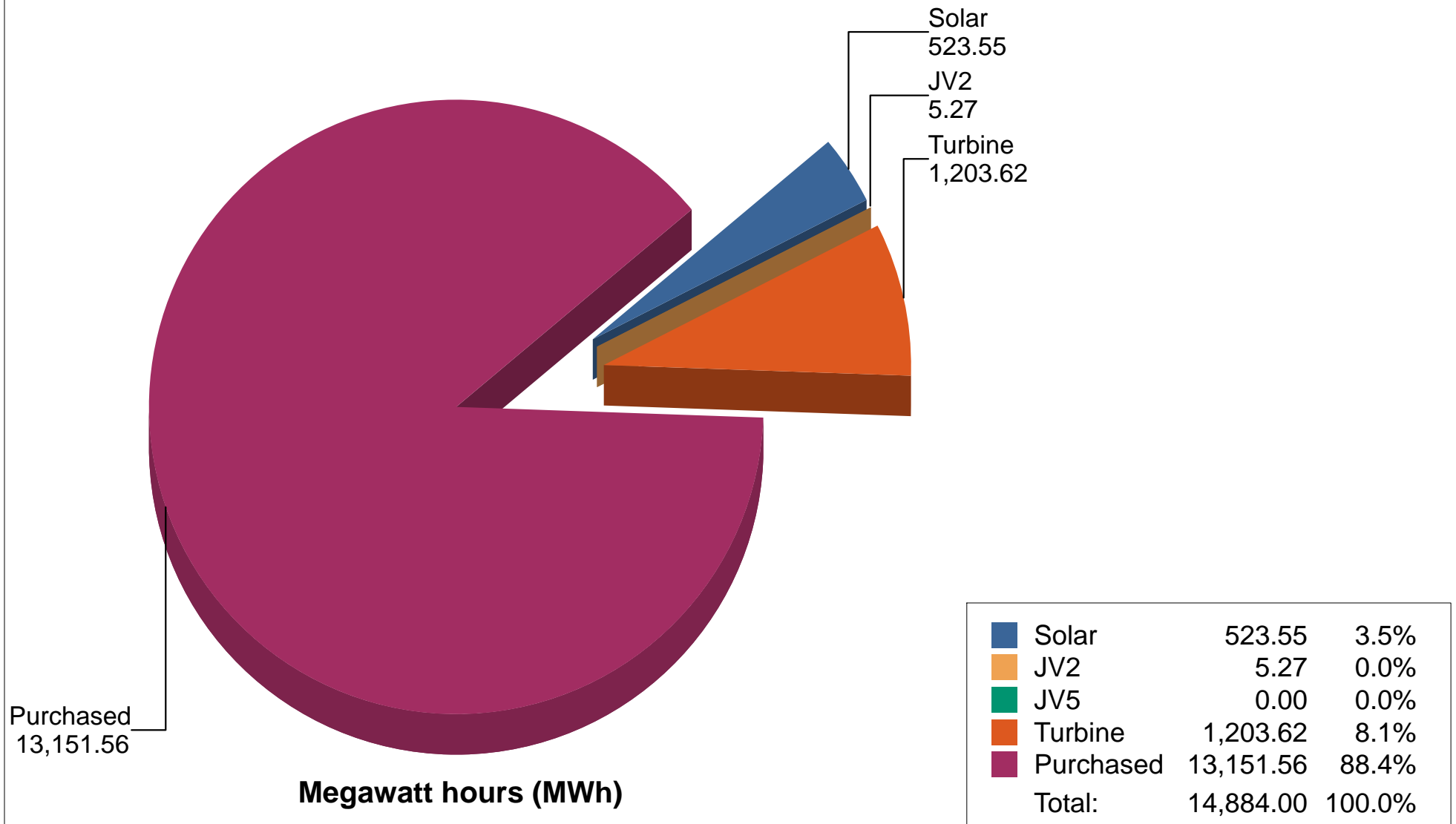


	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
— 2016 MWh	269.47	342.80	405.28	478.01	471.82	557.47	458.55	519.49	491.45	426.44	354.51	113.02
■ 2017 MWh	146.99	360.92	432.07	386.27	553.08	565.44	523.55					
— 2016 PEAK	3.55	3.69	3.71	3.71	3.54	3.54	3.21	3.41	3.47	3.64	3.36	3.26
■ 2017 PEAK	3.22	3.71	3.77	3.62	3.63	3.49	3.29					

# Napoleon Power & Light

## Power Portfolio

July 2017



*City of Napoleon, Ohio*

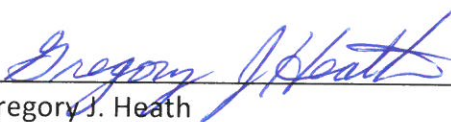
## **BOARD OF PUBLIC AFFAIRS**

Meeting Agenda

**Monday, August 14, 2017 at 6:30 pm**

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

- 1) Approval of the Minutes from July 10, 2017 *(In the absence of any objections or corrections, the Minutes shall stand approved).*
- 2) Review/Approval of the Power Supply Cost Adjustment Factor for August, 2017:  
PSCAF – three (3) month averaged factor \$0.01047  
JV2 \$0.022370  
JV5 \$0.022370
- 3) Discussion on Transmission Operator for Northside Substation.
- 4) Electric Vehicle Rebate.
- 5) Electric Department Reports.
- 6) Any other matters to come before the Board.
- 7) Adjournment.



Gregory J. Heath  
Finance Director/Clerk of Council





\$10,000 a month per unit. Another option is to sell the substation to another utility operator. It is not our desire to sell, it is a desirable asset. AMP is not interested they are on the generation side and do not have any transmission assets.

Dr. Cordes asked if there is a way to get an exemption or have the law changed. Mazur replied that would be highly unlikely as this is a federal requirement. Another option is that we could have a third party run our transmission.

Dr. Cordes suggested maybe Napoleon and the other three communities could go together and do distribution thing.

DeWit asked when were we notified they will be enforcing the law.

Clapp said we were up for an audit and had to send them information and they saw in the survey we had a 138kv and asked "what are we going to do about that". We have to give them an update every month on what we are doing.

Baer asked what do you mean by time – months, years?

Mazur answered months.

Clapp said they are forcing us to have everything in place in three months, we have to give them a plan and they will either approve or disapprove that plan.

DeWit said you cannot train four people in three months and buy all the equipment.

Baer stated if we are in the process of researching this item, it should go on the agenda next month for this committee and the BOPA.

**Motion to Adjourn  
BOPA Meeting**

Motion: Dr. Cordes

Second: DeWit

To adjourn the Board of Public Affairs meeting at 6:56 pm.

**Passed**

**Yea-2**

**Nay-0**

Roll call vote on the above motion:

Yea-DeWit, Dr. Cordes

Nay-

**Approved**

August 14, 2017

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Mike DeWit, Chairman



# 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 Law Director, City Manager, Department Supervisors, Newsmedia  
**From:** Gregory J. Heath, Finance Director/Clerk of Council *GJH*  
**Date:** August 10, 2017  
**Subject:** Water, Sewer, Refuse, Recycling & Litter Committee – Cancellation

The regularly scheduled meeting of the Water, Sewer, Refuse, Recycling and Litter Committee for Monday, August 14, 2017 at 7:00 pm has been CANCELED due to lack of agenda items.



# City of Napoleon, Ohio

255 West Riverview Avenue, P.O. Box 151

Napoleon, OH 43545

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## Memorandum

**To:** City Council, Mayor, City Law Director, City Manager, Department Supervisors, Newsmedia  
**From:** Gregory J. Heath, Finance Director/Clerk of Council *GJH*  
**Date:** August 10, 2017  
**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, August 14, 2017 at 7:30 pm has been *Canceled* due to lack of agenda items.



# City of Napoleon, Ohio

## Napoleon Police Department

310 Glenwood Avenue, P.O. Box 151

Napoleon, OH 43545

Telephone: (419) 599-2810 Fax: (419) 599-7969

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

# Memorandum

**To:** Joel Mazur, City Manager, Members of City Council  
**From:** David Mack, Lt. Acting Chief of Police  
**cc:** File  
**Date:** August 2, 2017  
**Subject:** Authority CAD Software, Civica CMI

*I would like to inform members of City Council and the City Manager of an unplanned emergency situation which is occurring, which threatens to interrupt the capabilities of the department. In light of recent events, this situation's priority has increased. I will attempt to detail and summarize this situation.*

*History: The police department purchased software from CMI in the area of 2000. This system was over time known as the legacy system. For at least the last 22 years, we were a secondary dispatch center to the county and operated the same CAD (Computer Aided Dispatch) Software. For several years the Sheriff's Office and the Police Department were on the same system. At some point, the Sheriff's Office made the decision to move to Interbadge/CAD Software while the city chose to upgrade to the newer "Authority" product line from Civica CMI. This occurred near the year of 2011. During this time, we both shared the same Dispatch Software but had different Records Management Software (RMS).*

*The police department stayed with Civica for many reasons which included cost and customer service. Civica CMI then chose to "give" us their CAD software for free as it was integrated with their RMS software. They maintained this software throughout our history with them. This was with the understanding that we were "live" dispatching through the Interbadge CAD software.*

*In 2017, after the budget year had begun, the Sheriff's Office moved to a new software provider for their CAD and their RMS systems. This was an unplanned event for the city. As the City has continued to work through possible solutions through the next several months, Chief Weitzel retired.*

*Explanation of Situation: On July 28, 2017, a Civica CMI representative requested a meeting with me. In this meeting, they gave me notice in the form of a Memorandum of Understanding, which we needed to upgrade to a paying customer for CAD. They are requesting a signed PO for Civica CMI's Authority Software no later than March 31, 2018, or shall allow removal of the software by Civica CMI personnel. The police department had a quote from the company already from prior conversations. During this conversation, Chief O'Brien and I talked about possible reductions in the quote. On 8/1/17 I received a verbal quote which was reduced. The total price for the software is approximate \$39,710.00 which I am currently awaiting a formal updated quote.*

*The new Authority RMS software is even more integrated with Authority CAD and one will not work without the other at this point. Due to programming, Authority RMS will be seized to operate properly or be able to be upgraded in the future without the Authority CAD update.*

*There was a quote at one point in the neighborhood of \$19,000.00 for the CAD software that the County went to. However, this was with the understanding that we were going to buy their software and then continue to use our CAD in limited function while the dispatchers double entered every call. Since this initial thought, we were informed that RMS and CAD from Civica have to be fully updated on both sides to remain in working order.*

*In researching the software provider that the county currently uses, I received a quote that is a minimum of \$135,879.00. There would be a risk factor of unplanned data conversation charges or other similar items, not to mention a significant amount of time to convert the existing files to the new system and the officers/dispatcher training in the software. This quote was just received via email and not with a detailed interview process to truly spec out the system. I did speak to a sales person who was familiar with Henry County Installations and what we would possibly need.*

*It is my opinion that we stay with Civica CMIL. What this will do is allow my dispatch to become fully operational in the CAD software. This upgrade will give officers and dispatchers significant enhancements. It will also include a site license for mobile CAD that will enhance the officer's abilities in the mobile arena. This software would then also serve to enhance the capabilities of the fire department operations because it will integrate with their dispatch software, "I Am Responding." The Common Pleas Prosecutor is also looking to update her software to a system called "Matrix." If this is done, CMI software is capable; however, the software provider the county is using is not currently to my understanding. Civica CMI is also in our Finance Department and our department has had a very positive long lasting relationship up to this point.*

*Solution: One option is to sign the MOU and plan on the upgrade after the 1st of the year but before the deadline. The 2nd Option is that I purchase this software immediately. I was able to go through my budget and find about \$40, 377.000 to pay for it; however, it is with the understanding that I would be essentially freezing all purchasing and we would have virtually \$0 dollars left in unplanned expenses. Items we would not purchase would include training and ammo for this year. We would rely on existing inventories.*

*Respectfully,*

*David Mack, Acting Chief of Police*



**August 11, 2017**

**LEGISLATIVE SERVICE COMMISSION (LSC) RELEASES PROJECTIONS FOR FY 2018/'19 LOCAL GOVERNMENT FUND (LGF) DISTRIBUTIONS**

As our members are aware, the recently passed state budget, Am. Sub. HB 49, included changes to the distribution amounts of the Local Government Fund (LGF) that will reduce revenue for many municipalities in Fiscal Years 2018 & 2019. Largely, these reductions are the result of the state redirecting revenue away from the municipal supplemental distribution fund that went to those cities and villages with an income tax to instead fund new statewide opioid crisis programs and an additional \$24 million in municipal LGF revenue redirected, over the biennium, to all Ohio townships and villages with a population under 1,000.

The Ohio Legislative Service Commission (LSC) has recently produced revenue projections on what political subdivisions in Ohio may receive in distributions for the next two years. We have separated Ohio municipalities from the full list of all entities and those tables can be found [HERE](#). The information is broken down first by county followed by city and village within that county.

We cannot ensure the complete accuracy of these figures; however, these are the closest projections that we have at this time. We hope you find the attached information helpful, and we will send out additional or updated information as we receive it.

**LEGISLATION INTRODUCED TO RESTRICT MUNI INCOME TAX TO RESIDENTS ONLY INTRODUCED**

Sen. Kris Jordan (R-Ostrander) has re-introduced legislation last week that would prohibit municipalities from taxing nonresident income or profits. SB 176 intends to limit municipalities to taxing only their residents, while relieving non-resident workers of any withholding obligations despite the cost in services municipalities provide for those who spend their workdays in Ohio's municipalities. The legislative language can be accessed by going to LSC's webpage: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA132-SB-176>.

Ohio's workforce enjoys the safe and dependable municipal infrastructure, water and sewage, fire and safety and other services provided by the municipalities where 85% of Ohio's workforce spend their working hours. Restricting municipalities to only taxing residents would result in substantial revenue losses that would disrupt that community's

ability to be a place where Ohioans want to work, where businesses want to stay and where parents would want to raise a family.

The bill's previous iterations were never moved outside of the committee they were assigned to; however, we will be watching this legislation carefully and will alert our members with any additional updates should the bill receive hearings.

### **Meeting/ Training**

<b>Mayors Court Refresher Courses</b>	<b>August 11, October 6 &amp; November 3</b>	<a href="#"><u>Registration Information</u></a>
<b>OML/OMAA Webinar: Nuisance Abatement</b>	<b>September 14th 10:00 ~ 11:00 am</b>	<a href="#"><u>Registration Information</u></a>
<b>OML Annual Conference</b>	<b>November 1 ~ 3</b>	<b>Registration Information Coming Soon</b>

[Ohio Municipal League](#)

Legislative Inquires:

[Kent Scarrett, Executive Director](#)

[Edward Albright, Deputy Director](#)

[Josh Brown, Director of Communications](#)





## Nominations open for AMP Board

*By Roy Johnson - Carey village administrator & nominating committee chair, AMP Board of Trustees*

Four at-large seats on the AMP Board of Trustees will be up for election at the organization's general membership meeting on Sept. 27 during the 2017 AMP/OMEA Conference in Columbus. The at-large seats, for three-year terms, are currently held by the Ohio communities of Cuyahoga Falls, Dover, Newton Falls and Napoleon. Trustees, whether at-large or service group representatives, are elected by member community - not by individual. The elected municipality then appoints a representative to fill its Board seat. If your member community would like to be considered for nomination, please contact me at 419.396.7681 or [roy.johnson@careyohio.org](mailto:roy.johnson@careyohio.org).

Rachel Gerrick, AMP senior vice president and general counsel for corporate affairs, provided the following reminder on the designation and notification of proxy in order to vote at the general membership meeting, special meeting or service group caucus. Each member in good standing shall designate in writing one representative and may also designate one (or more) alternates. Each member, through its representative, shall be entitled to one vote on any matter coming before the members at a general membership meeting, special meeting or service group caucus. Note: Proxy voting is permitted; however, a representative may only vote for one member community. Designation and notification of such proxy must be provided prior to such general membership meeting, special meeting or service group caucus via correspondence by the use of electronic means, facsimile, courier or U.S. mail from an authorized official (i.e., mayor/city manager/board chair or general manager) designating a person to carry the proxy for all voting purposes. Emails will suffice if the email address is from the member; otherwise correspondence must be on member letterhead or its legal adviser's letterhead.



Proxy correspondence should be addressed to Barbara Johnson at [bjohnson@amppartners.org](mailto:bjohnson@amppartners.org). If sending by courier or U.S. mail: Barbara Johnson, American Municipal Power, Inc., 1111 Schrock Rd., Suite 100, Columbus, Ohio 43229.

## AMP/OMEA Conference registration brochure mailed

*By Karen Ritchey - director of member events and programs*

The 2017 AMP/OMEA Conference registration brochure was mailed today. An electronic version is also available for download on the AMP website [home page](#). Conference attendees are encouraged to [register online](#) (link also provided on the website home page). A discounted price for early registration is available through Sept. 16. If you have questions, please feel free to contact me at [kritchey@amppartners.org](mailto:kritchey@amppartners.org) or Jodi Allalen at [jallalen@amppartners.org](mailto:jallalen@amppartners.org). We look forward to seeing you at conference!





## Save the date for AMP/OMEA Conference CLE sessions

*By Barbara Johnson - paralegal/assistant to general counsel*

Legal advisors to AMP members are encouraged to mark their calendars on Sept. 26-27 to attend proposed AMP/OMEA Conference sessions in order to receive continuing legal education (CLE) credits.

AMP has applied for accreditation by the Supreme Court of Ohio Commission on Continuing Legal Education for Ohio CLE credits for the upcoming annual conference.

Topics that may be approved for CLE credit include:

- Update Regarding Public Power Opportunities and Challenges Facing AMP and OMEA Members
  - Update on the APPA strategic plan along with the challenges and opportunities facing public power and major regulatory and other industry trends that APPA is addressing, including legal implications of evolving customer preferences, new technologies, utility workforce issues, increasing regulation and community solar.
- Wireless Pole Attachments - Federal and State Trends and Issues
  - Public power utilities are increasingly facing access requests to allow wireless, small cell attachments on their electric distribution poles and street lights. This session will provide an overview of the current state of the law at the federal and state level - Ohio SB 331.
- Understanding Transmission Infrastructure Expansion and Increasing Costs
- Federal and State Legislative and Regulatory Update Regarding Municipal Electric Utilities

You can attend all of the CLE courses for \$220 if you register through Sept. 16 - after that date, the price is \$255. This includes CLE sessions, breakfast, lunch and the Municipal Electric Partner Reception on Tues., Sept. 26, as well as breakfast, CLE sessions and lunch on Wed., Sept. 27.

Additional details about the proposed CLE sessions will be provided as a part of AMP's conference notifications. If you have any questions or comments, please contact Michael Kyser at 614.540.0984 or [mkyser@amppartners.org](mailto:mkyser@amppartners.org), or Kristin Rothey at 614.540.0852 or [krothey@amppartners.org](mailto:krothey@amppartners.org).

## Energy markets update

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

The August 2017 NYMEX natural gas contract decreased \$0.011/MMBtu to settle at \$2.800 yesterday. The EIA reported an injection of 20 Bcf for the week ending July 28. Analyst expectations were calling for an injection of 19 Bcf. Gas in storage now stands at 3,010 Bcf. This is three percent over the five-year average of 2,923 Bcf. Gas in storage for this week one year ago was 3,289 Bcf.

On-peak power prices for 2018 at AD Hub closed yesterday at \$34.70/MWh which was unchanged for the week.

On Peak (16 hour) prices into AEP/Dayton hub				
Week ending Aug. 4				
MON	TUE	WED	THU	FRI
\$38.45	\$39.13	\$36.08	\$33.19	\$28.97
Week ending July 28				
MON	TUE	WED	THU	FRI
\$36.88	\$31.70	\$36.36	\$35.78	\$31.00
AEP/Dayton 2018 5x16 price as of Aug. 4 — \$34.70				
AEP/Dayton 2018 5x16 price as of July 27 — \$34.70				

## AFEC weekly update

By Jerry Willman

Fremont plant operated in 2x1 configuration for the week. The plant was off-line for the day on Sat. but PJM cleared the plant on-line for Sun. during the peak hours. The plant was cycled down during the off-peak hours on Mon. but ramped back up mid-morning and remained on-line the rest of the week. Duct firing operated for 59 hours this week. The plant generated at a 53% capacity factor (based on 675 MW rating).

## Terlizzi, Byer join AMP team

AMP welcomed two new employees this week, Paul Terlizzi and Collin Byer.

Terlizzi joined AMP as plant operations and maintenance supervisor for the Willow Island Hydroelectric Plant. Prior to AMP, Terlizzi served as a senior instrumentation and controls (I&C) instructor at the Beaver Valley Nuclear Plant and held positions at nuclear plants in N. C., Fla., Mich., Ill., Ohio and Calif. Terlizzi holds an associate's degree in general studies from Cuesta College, as well as several certifications from the National Academy for Nuclear Training and the U.S. Navy.

Byer joined AMP as a power dispatcher. He previously worked at Watertown Ford and Terex Utilities in S.D. Byer holds an associate's degree in electrical transmission systems technology from Bismarck State College and recently achieved NERC system operator certification in balancing, interchange and transmission.

Please join us in welcoming Paul and Collin to AMP.





## AMP Lineworkers Rodeo preparations are nearly complete

*By Michelle Palmer, PE - vice president of technical services*

Volunteer utility crews from the AMP member communities of Jackson Center, Piqua, Tipp City, Cleveland, Westerville and Orrville installed lines and equipment on Aug. 2 in preparation for the 2017 AMP Lineworkers Rodeo to be held Aug. 25-26.

If you are interested in volunteering, registration is open until Aug. 11. Volunteers are needed to assist with greeting visitors as well as auditing and judging Rodeo events. Volunteer and vendor registration forms are available on the AMP [website](#).

If you have questions, please contact Jennifer Flockerzie at 614.540.0853 or [jflockerzie@amppartners.org](mailto:jflockerzie@amppartners.org).

We'd like to thank all of the volunteers over the past couple months for helping us build a successful Rodeo!

## AMP hosts webinar on DER

*By Joe Regan - member credit compliance analyst*

The AMP Finance and Accounting Subcommittee hosted 28 participants, from 22 member communities in three states, for a webinar about distributed energy resources (DER) with a focus on behind-the-meter (BTM) generation on Aug. 2.

John Courtney, PE, owner of Courtney & Associates, provided an overview of BTM and related metering terminology. Courtney discussed policy and identified factors to consider within individual communities. He addressed interconnection procedures and rate design, including measuring the impact of behind-the-meter generation, as well as current rate structures and costs and metering and billing requirements. Courtney also cited several case studies of AMP members that have successfully implemented several of the



concepts covered during his presentation.

Erin Miller, AMP director of energy policy and sustainability, gave an overview of AMP's Focus Forward program and discussed various topic areas of interest to the Focus Forward Advisory Council including DER resources.

If you were unable to attend the webinar, you can view the video recording posted on the AMP website's Member Extranet home page ([login required](#)). If you need assistance viewing the webinar or have any questions, please contact me at 614.540.6913 or [jregan2@amppartners.org](mailto:jregan2@amppartners.org).

## **SEPA's Grid Evolution Summit addresses DER integration**

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

The Smart Electric Power Alliance's Grid Evolution Summit was held July 25-27 in Washington D.C. to discuss how the electric industry sector will continue to evolve, modernize the grid and better integrate distributed energy resources (DER). Approximately 500 were in attendance representing electric utilities, regulators, nonprofits and service providers.

Andrew Levitt, senior market strategist from PJM Interconnection, presented definitions of DER. Levitt said most people perceive DER as a resource that produces power, is wired to a customer, is less than 10-20 MW and 100 KV and is certified green. However, according to Levitt, most definitions are broader and include demand response and energy efficiency. He explained that FERC has the broadest definition: any source or sink of power that is located on the distribution system, any subpart thereof, or behind a customer meter.

The Summit was focused on the needs and desires of the customer and participants encouraged designing products and programs to address them. Many of the speakers referred to the "Digital Age" and the customer's expectation of choice and access to information in a simplified, digital framework.

Utilities are also aware that not all customers can afford DER and there is a need to assist low-income customers that are traditionally underserved by the private sector. The Sacramento Municipal Utility District (SMUD) takes their lowest-cost community solar array and allocates it specifically for low-income customers. They have also paid Habitat for Humanity to repair roofs on low-income homes to make them solar ready. In addition, National Grid has a program where they install, own and operate solar installations on low-income homes and pay homeowners \$25 per month toward their electric bills as payment to lease their roofs. To date, 100 customers have signed up for the program for a total of 500 KW.

Electrification of the built environment and transportation sector, coupled with deep de-carbonization and advancements in energy storage technology, was widely viewed as the future of the sector. In addition to increased revenues, those resources (i.e., electric vehicles, electric water heaters and HVAC systems) can also help stabilize the grid through the use of integrated communication and control systems.

Utilizing AMI/smart meters to develop rates that incentivize "good-grid-citizen" behavior was also a common theme. Rate models that support more customer empowerment such as dynamic pricing and time of use rates were discussed. Doug Benevento, VP of public affairs for Xcel Energy, discussed the settlement in Colorado, known as "Our Energy Future," where they are piloting a program with 48,000 demographically diverse customers and providing them with a bridge meter. The purpose of the pilot is to determine whether demand rates or time of use rates work better. They explain to customers (in a simple graphic) that if they use electricity during the red period, they will pay more; during a blue or grey period, they pay less. The results of the trial will be given to the Colorado PUC in 2019 and the most effective rate will be adopted.

Due to the complexity of DER, more frequent, granular and integrated forecasting and planning are needed. The planning efforts of SMUD, Vermont Electric Power Company (VELCO) and Hawaiian Electric Company were highlighted. SMUD created a DER strategy with Black & Veatch where they conducted a DER integrated forecast by using Nielson Prism customer segmentation data, combined with historic adoption data, to determine a forecasted DER adoption rate. They subsequently evaluated the distributed grid impacts and modeled them with a planning tool. This showed that they should expect a 25% EV adoption by 2030, which would result in 17% of transformers being stressed, costing SMUD \$100/EV. They also looked at solar impacts to voltage regulators at their substations and determined it would cost

\$0.08/watt. In addition, the forecast showed revenues would be down 10%, but that peak demand would be down 20%. This evaluation demonstrated the need for changing their rate model. SEPA's *Beyond the Meter: Planning the Distributed Energy Future* report goes into further detail and is available on SEPA's [website](#).

## APPA is accepting RP3 applications

*By Jennifer Flockerzie - technical services program coordinator*

The American Public Power Association (APPA) is accepting applications for Reliable Public Power Provider (RP3) designation. The prestigious RP3 designation is awarded to utilities that demonstrate high proficiency in four key disciplines: reliability, safety, work force development and system improvement.



As in previous years, AMP will offer assistance to members throughout the RP3 application process. Applications are available [online](#) and due by Sept. 30. Utilities applying in 2017 will be designated in 2018 for a three-year term.

For more information or additional assistance, please contact Jennifer Flockerzie at 614.540.0853 or [jflockerzie@amppartners.org](mailto:jflockerzie@amppartners.org).



# Register now for Webinars

An internet connection and a computer are all you need to educate your entire staff for just \$99. Register today at [www.PublicPower.org/Academy](http://www.PublicPower.org/Academy) and click on webinars. Non-members enter coupon code **AMP** to receive the member rate.

- Public Power Forward Webinar Series  
The Future of Rate Design **Aug. 15**
- Public Power Forward Webinar Series  
Community Solar Success Stories **Sept. 7**
- Public Power Forward Webinar Series  
Charging Ahead with Electric Vehicles **Sept. 26**



## Classifieds

### Bowling Green in search of assistant superintendent of water supply division

The City of Bowling Green, Ohio, Water Supply Division is taking online applications for the position of Assistant Superintendent. The full-time, salaried (exempt) position is responsible for providing assistance to the Superintendent to ensure proper operation of the City's water plant and providing public relations. Supervises staff; prepares work assignments; compiles operating data for reports; collects and analyzes water samples; communicates with citizens, vendors, Health Department & EPA officials; performs maintenance; orders supplies; assists with budget; assists with employee training/evaluation. Work is performed primarily indoors with contact with the City's citizens and general public; incumbent occasionally works around hazardous chemicals or in underground pump stations. Two-year college certificate or equivalent; required an Ohio Class IV Operator Water Supply Certificate or at time of application must have a Class III OEPA Water Supply Certification and must be able to obtain at Class IV certification within

3 years of appointment; Laboratory certification for Analysis of Drinking Water; five to seven years of relevant experience; must maintain a valid Ohio Driver's License. Copies of the complete job description will be provided to applicants.

Qualified persons must complete an application that is available in the Personnel Department of the City of Bowling Green, 304 North Church Street, Bowling Green, OH, 43402-2399. The application is available online at <http://www.bgohio.org/departments/personnel-department/employment-opportunities>. Résumés alone will not be considered. Telephone: (419)354-6200 web: [www.bgohio.org](http://www.bgohio.org) email: [BGPersonnel@bgohio.org](mailto:BGPersonnel@bgohio.org) AA/EEO

City of Bowling Green Pay Band 5: \$56,097 - \$71,344  
Application deadline date: August 11, 2017 at 4:30 p.m.

## **Staff accountant position open in Coldwater**

The City of Coldwater/Coldwater Board of Public Utilities is seeking an entry level financial professional to support its accounting and financial operations. The qualifying candidate must have a bachelors' degree in accounting and possess strong analytical skills. Past audit experience or governmental accounting or utility billing background is preferred. CPA certification (or eligibility) or Master's degree is considered a plus.

Primary responsibilities include utility billing, payroll and basic accounting functions. This position will assist in budget and financial reporting preparation.

Salary will be based on experience. Position is considered to be a management trainee position. A competitive wage and benefits package will be offered.

Coldwater is a progressive community of 11,000 residents located in south central Michigan. The City provides electric, water, wastewater and telecommunications services through the Coldwater Board of Public Utilities.

Interested candidates must submit an electronic resume by August 11, 2017, to [resume@coldwater.org](mailto:resume@coldwater.org) or by mail to Finance Director, City of Coldwater, 1 Grand St., Coldwater, MI 49036. Equal opportunity employer

## **Beach City has two positions available**

### **Lineworker**

The Village of Beach City has an opening for an experienced electric lineman in its electric utility department. Successful candidates will meet the following qualifications: high school diploma, or GED, Two year Trade School and Journeyman Certification. Commercial Driver's License (CDL) with a Class B Endorsement. The village lineman may be expected to perform duties in areas such as water, wastewater, tree trimming, streets and park maintenance. This is an inherently hazardous and physically demanding job. Candidates must be willing to work in all kinds of weather conditions. Hourly rate of pay is \$23.00. Beach City offers a comprehensive benefit package, and is a drug free and Equal Opportunity Employer. Applications are available at Village of Beach City, 105 E. Main St., Beach City, Ohio, or via email to: [utilities@beachcityohio.org](mailto:utilities@beachcityohio.org). Applications will be accepted until 3:00 p.m. on Aug. 11, 2017.

### **Part-time village administrator**

The part-time village administrator is responsible for the drafting, promulgation and administration of by-laws and regulations related to the Public Utilities of the Village which must be consistent with village or state laws. Hours will be a maximum of 20 hours per week, along with emergency call outs. Experience and education in the areas of leadership and management, independent judgment in decision making, purchasing, water, sewer and electric distribution, along with job site assistance to department workers. Hourly rate of pay is \$20.00 (with no additional benefits). A detailed job description along with applications can be obtained at the Village Hall, 105 E. Main St., Beach City, Ohio, or via email to: [treasurer@beachcityohio.org](mailto:treasurer@beachcityohio.org). Applications will be accepted until 3:00 p.m. on Aug. 11, 2017.

## **DEMEC member seeks director of electric department**

The City of Dover, Delaware, is currently recruiting for the position of Electric Department Director. The essential function of the position within the organization is to oversee and direct the City's Electric Department. The Electric Department is comprised of Electric Transmission & Distribution, Electric Engineering Operations and Administration, and oversees Power Generation/Procurement Contracts. The position assumes management responsibility of the Electric Utility functions, plans and directs the operation and maintenance of electrical transmission and distribution service and oversees the operation of the electrical sub-stations. The position is responsible for supervising staff, (approximately forty (40) employees) establishing long range plans, developing policy and procedures, managing department activities and events, preparing budgets, and evaluating, documenting, and reporting on events and activities to senior management and elected or appointed officials. This position is a member of the leadership team of the city and reports directly to the City Manager.

Primary duties include, however not limited to, the following: develops goals, objectives, policy and procedures for departmental activities and programs in consultation with regulatory agencies, and plans for future expansion to meet growth needs; advises and consults with elected and appointed officials, commissions, federal or state regulatory agencies (FERC/NERC), department heads, staff agencies, developers, civic or private groups, individuals, and others, on problems, strategies, policies, and procedures related to electric department services; represents the City on regional and local boards or committees and at meetings concerning utility matters; makes presentations to elected or appointed officials, department heads and staff, and other public or private agencies or groups on significant utility issues or programs; supervises staff including establishing staffing standards, organizing, electing or recommending selection, training, assigning and evaluating work, counseling, disciplining, and terminating or recommending terminations; oversees administrative matters such as developing and defending departmental budgets, administering expenditures, conducting special studies, preparing departmental CIP, managing correspondence and records, reviewing contracts and bills, preparing routine and special reports, administering training, providing for staff technical or professional growth, and other administrative duties.

Candidate will possess a Master's degree in public administration, engineering, or a closely-related field and Bachelor's Degree in Business Management or Electrical Engineering. The position requires a minimum of eight (8) years of related experience with a history of progressive management and leadership experience. The successful candidate will be proficient in project management and LEAN concepts and processes. A valid driver's license is required.

A successful criminal background investigation will be required. The City of Dover offers an excellent total compensation package which includes health insurance, and 401a/457 deferred compensation plans. To apply, submit a City of Dover employment application, cover letter and resume to: City of Dover, Attn: Human Resources Dept., P.O. Box 475, Dover, DE 19903. An application can be obtained from the Human Resources Department at City Hall or at the website [www.cityofdover.com](http://www.cityofdover.com). The City of Dover is an Equal Opportunity Employer.

Weekly Salary Range: \$1,926 to \$2,235 (depending on qualifications)  
Closing Date: August 18, 2017

## **Borough of New Wilmington has regulators for sale**

The Borough of New Wilmington has the following used regulators available for sale. For additional information, please contact Borough Council Administrator Sharonn Edmiston at 724.946.8167 or Dean Ligo at 724.333.3867.

(3) GE Step Up voltage regulators - VR1 voltage rating 2500/4330 Y 167 KVA 668 load amp

(1) McGraw-Edison voltage regulator - VR1 voltage rating 2500/4330 Y 167 KVA 668 load amp





## Opportunities available at AMP

American Municipal Power, Inc. (AMP) is seeking applicants for the following positions. For complete job descriptions, please visit the "careers" section of the AMP [website](#).

[Manager of Cyber Security](#)

[Power Supply Planning Engineer I](#)

American Municipal Power, Inc.

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