



An AEP Company

BOUNDLESS ENERGY™

Legal Department

American Electric Power  
1 Riverside Plaza  
Columbus, OH 43215-2373  
AEP.com

January 29, 2018

Barcy F. McNeal  
Docketing Division Chief  
Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus Ohio 43215-3793

**Steven T. Nourse**  
Chief Ohio Regulatory  
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*Re: In the Matter of the gridSMART Phase 2 Rider for Ohio  
Power Company, Case No. 17-1156-EL-RDR*

Dear Ms. McNeal:

Consistent with the April 28, 2017 Application filed to initiate this case and in accordance with the February 1, 2017 Opinion and Order in Case No. 13-1939-EL-RDR (gridSMART Phase 2 Order), Ohio Power Company (AEP Ohio) hereby submits its gridSMART Phase 2 rider update for the fourth quarter 2017. The gridSMART Phase 2 Order requires quarterly filings with automatic approval 30 days after the filing unless otherwise determined by the Commission. Therefore, absent Commission intervention the rates from this filing will become effective Cycle 1 March 2018.

Attachment 1 reflects the actual Phase 2 O&M spending and Capital Carrying Charges from October through December 2017. The update includes the Capital Carrying Charges related to the movement of twenty-two thousand additional AMI meters to Phase 2 as Ordered in the Phase 2 Order (at Page 14), and the allocation between the Residential and Non-Residential classes as Ordered in the Global Settlement (Case No. 10-2929-EL-RDR et.al). The filing does not adjust the rider revenue transferred from Phase 1 to Phase 2 because the O&M and Capital Carrying Charges transferred from Phase 1 were calculated to be passed back over a one-year period commencing Cycle 1 June 2017. The Company will make the adjustment at the end of the one-year period. Workpaper 1 outlines the current status of the annual

Rider Revenue pass back. Workpapers 2 and 3 detail the calculation of carrying charges for Phase 2 Capital Spending and the additional twenty-two thousand meters mentioned above.

Further, as required by the Phase 2 Order (at Page 13, Par 34), Attachment 1 includes a \$400,000 quarterly Operational Saving Credit commencing with this filing. Attached as Attachment 2 are revised tariff sheets 485-1 and 485-1D, reflecting the revised gridSMART Phase 2 Rider Rates. The Company will continue to provide a quarterly credit of \$400,000 until such time that the audit can occur for operational savings. To date, the Request For Proposal (RFP) process has not yet been initiated. The Company will continue providing quarterly status reports based on the quarterly credit approved in the Stipulation and provide additional updates on the RFP process and audit timeline.

Additionally, the gridSMART Phase 2 Order (at Page 15, par 37) requires the company to report the non-financial metrics as shown on Attachment 1 of the Phase 2 Stipulation and Recommendation (filed on April 7, 2016) in this case, annually for the next six annual rider filings for the prior calendar year. Please find the non-financial metrics report for 2017 included as modified by discussions with the Staff as Attachment 3.

Thank you for your attention to this matter.

Regards,

/s/ Steven T. Nourse  
Steven T. Nourse  
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Corporation  
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Ohio Power Company  
gridSMART Phase 2  
4th Quarter 2017 True-up

Line No.	gridSMART Incremental Investment	Actual gridSMART Spending	Annual Carrying Charge	gridSMART Revenue Requirement
1	Oct 2017 - Dec 2017:			
2	Phase 2: O&M (AMI, VVO, DACR)	\$ 852,556		\$ 852,556
3	Total	\$ 852,556		\$ 852,556
				gridSMART
	Phase 2: Incremental Investment Oct 2017 - Dec 2017	gridSMART Spending	Annual Carrying Charge	Revenue Requirement
4	Capital - 15 Year Life- AMI		\$ 1,114,482	\$ 1,114,482
5	Capital - 30 Year Life - VVO		\$ -	\$ -
6	Capital - 30 Year Life - DACR		\$ -	\$ -
7	Misc. Capital		\$ -	\$ -
8	Total Capital			\$ 1,114,482
9			Total	\$ 1,967,038
10			Tax Gross Up Rate	100.881%
11			Revenue Requirement	\$ 1,984,366
12			Operational Savings Credit	\$ (400,000)
13			(Over)/Under Recovery for 2nd Q	\$ 792,583
14			Total Revenue Requirement	\$ 2,376,949
15	Residential Allocation	45%	Residential Revenue Requirement	\$ 1,069,627
16	Non-Res Base Allocation	55%	Non-Res Revenue Requirement	\$ 1,307,322
			<b>4th Quarter 2017 Filing - Quarterly Collection</b>	
17			Residential Customers	2017 1,282,558 \$ 0.28
18			Non-Residential Customers	190,212 \$ 2.29
			<b>1st Quarter 2017 Filing - Annual Collection</b>	
19	Attachment 1 (a)		Residential Customers	Monthly Rate \$ 0.14
20	Attachment 1 (a)		Non-Residential Customers	Monthly Rate \$ 1.12
			<b>1st Quarter 2017 Filing - Annual Collection (Refund)</b>	
21	Attachment 2 (b)		Residential Customers	Monthly Rate \$ (0.77)
22	Attachment 2 (b)		Non-Residential Customers	Monthly Rate \$ (3.25)
23	Total		Residential Customers	Monthly Rate \$ (0.35)
24	Total		Non-Residential Customers	Monthly Rate \$ 0.16

(a) gridSMART Phase 1 June 2015 through March 2017 O&M transferred to gridSMART Phase 2 (per February 1, 2017 Opinion and Order in Case No. 13-1939-EL-RDR).

(b) gridSMART Phase 1 2016 through March 2017: Capital Carrying Charges transferred to gridSMART Phase 2 less Rider Collections (per February 1, 2017 Opinion and Order in Case No. 13-1939-EL-RDR).

OHIO POWER COMPANY

~~3<sup>rd</sup>~~-~~4<sup>th</sup>~~ Revised Sheet No. 485-1  
 Cancels ~~2<sup>nd</sup>~~-~~3<sup>rd</sup>~~ Revised Sheet No. 485-1

P.U.C.O. NO. 20

## gridSMART PHASE 2 RIDER

Effective with the first billing cycle of ~~December~~-~~March~~ 2017, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the monthly gridSMART Phase 2 charge. This rider shall be adjusted periodically to recover amounts authorized by the Commission.

Residential Customers	<del>(\$0.31)</del> <u>(\$0.35)</u>
Non-Residential	<del>\$0.49</del> <u>\$0.16</u>

Filed pursuant to Order dated February 1, 2017 in Case No. 13-2385-EL-SSO

Issued: ~~October 26, 2017~~January 29, 2018

Effective: Cycle 1 ~~December 2017~~March 2018

Issued by  
 Julia Sloat, President  
 AEP Ohio

OHIO POWER COMPANY

~~3<sup>rd</sup>~~-~~4<sup>th</sup>~~ Revised Sheet No. 485-1D  
 Cancels ~~2<sup>nd</sup>~~-~~3<sup>rd</sup>~~ Revised Sheet No. 485-1D

P.U.C.O. NO. 20

OAD – gridSMART PHASE 2 RIDER  
 (Open Access Distribution – gridSMART Phase 2 Rider)

Effective with the first billing cycle of ~~December~~-~~March~~ 2017, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the monthly gridSMART Phase 2 charge. This rider shall be adjusted periodically to recover amounts authorized by the Commission.

Residential Customers	<del>(\$0.31)</del> <del>(\$0.35)</del>
Non-Residential	<del>\$0.49</del> <del>\$0.16</del>

Filed pursuant to Order dated February 1, 2017 in Case No. 13-2385-EL-SSO

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Effective: Cycle 1 ~~December 2017~~March 2018

Issued by  
 Julia Sloat, President  
 AEP Ohio

## Calculation of net Annual Rider Revenue Pass Back from June - December 2017

Case No. 17-1156-EL-RDR 1st Quarter True-up		Monthly Rate	Customer Bills	Actual Rider Revenue	Annual Revenue Requirement	Over / (Under) Collection
Attachment 1	Res Customers	\$ 0.14	8,975,467	\$1,256,565.40	\$2,085,660.01	(\$829,094.61)
Attachment 1	Non-Res Customers	\$ 1.12	1,323,151	\$1,481,928.56	\$2,549,140.01	(\$1,067,211.45)
Total				\$2,738,493.96	\$4,634,800.02	(\$1,896,306.06)
Attachment 2	Res Customers	\$ (0.77)	8,975,467	(\$6,911,109.68)	(\$11,851,905.83)	\$4,940,796.15
Attachment 2	Non-Res Customers	\$ (3.25)	1,323,151	(\$4,300,239.13)	(\$7,388,952.93)	\$3,088,713.80
Total				(\$11,211,348.80)	(\$19,240,858.76)	\$8,029,509.96
Total	Res Customers	\$ (0.63)	8,975,467	(\$5,654,544.28)	(\$9,766,245.82)	\$4,111,701.54
Total	Non-Res Customers	\$ (2.13)	1,323,151	(\$2,818,310.57)	(\$4,839,812.92)	\$2,021,502.35
Total				(\$8,472,854.85)	(\$14,606,058.74)	\$6,133,203.89

gridSMART Phase 2 NBV  
Depreciation Tables

		AMI Meters - In Service									
				15							
		0.683%									
Asset Value	Year Life	Gross Capital Expenditure (booked cost)	Cumulative Gross Plant	Net Plant	Depreciation Reserve	Accumulated Depreciation	Annual Depreciation Expense	Return Carrying Charge Rate	Depreciation Carrying Charge Rate	Property Carrying Charge	Annual Carrying Charge
Monthly Rate											
2017	January										
	February										
	March										
	April	\$1,239.87	1,239.87	1,222.50	\$17.37	17.37		10.74	8.47	3.11	22.32
	May	\$7,516.82	8,756.69	8,602.31	\$137.01	154.38		75.56	59.84	21.86	179.58
	June	\$10,080,135.63	10,088,892.32	9,874,832.46	\$213,905.48	214,059.86		86,733.95	68,940.76	25,098.53	180,952.82
	July	\$2,211,179.74	12,300,072.06	11,994,094.24	\$91,917.96	305,977.82		105,348.13	84,050.49	30,484.99	400,836.43
	August	\$259,949.42	12,560,021.48	12,200,908.86	\$53,134.80	359,112.62		107,164.65	85,826.81	31,010.64	624,838.53
	September	\$3,421,407.38	15,981,428.86	15,464,887.66	\$157,428.58	516,541.20		135,833.26	109,206.43	39,306.59	909,184.82
	October	\$2,147,085.70	18,128,514.56	17,474,240.70	\$137,732.66	654,273.86		153,482.08	123,878.18	44,413.70	1,230,958.78
	November	\$620,648.36	18,749,162.92	18,001,015.63	\$93,873.43	748,147.29		158,108.92	128,119.28	45,752.58	1,562,939.56
	December	-	-	-	-	-	\$748,147.29	-	-	-	-
2018	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2019	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2020	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2021	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2022	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2023	January	-	-	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-	-	-
	July	-	-	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2024	January	-	-	-	-	-	-	-	-	-	-

Note: Capital is booked one month in arrears.

gridSMART Phase 2 NBV  
Depreciation Tables

Asset Value  
Year Life  
Monthly Rate

		Volt Var (VVO) - In Service									
				30		0.242%					
		Gross Capital Expenditure	Cumulative Gross Plant	Net Book Value	Depreciation	Accumulated Depreciation	Annual Depreciation Expense	Return Carrying Charge Rate	Depreciation Carrying Charge Rate	Property Carrying Charge	Annual Carrying Charge
2017	January										
	February										
	March										
	April	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	May	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	June	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	July	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	August	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	September	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	October	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	November	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	December	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2019	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2020	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2021	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2022	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2023	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2024	January	-	-	-	-	-		-	-	-	-

Note: Capital is booked one month in arrears.



gridSMART Phase 2 NBV  
Depreciation Tables

Asset Value  
Year Life  
Monthly Rate

		Distribution Automation - In Service									
			30								
			0.242%								
		Gross Capital Expenditure	Cumulative Gross Plant	Net Book Value	Depreciation	Accumulated Depreciation	Annual Depreciation Expense	Return Carrying Charge Rate	Depreciation Carrying Charge Rate	Property Carrying Charge	Annual Carrying Charge
2017	January										
	February										
	March										
	April	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	May	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	June	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	July	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	August	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	September	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	October	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	November	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	December	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2019	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2020	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2021	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2022	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2023	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2024	January	-	-	-	-	-		-	-	-	-

Note: Capital is booked one month in arrears.

gridSMART Phase 2 NBV  
Depreciation Tables

Asset Value  
Year Life  
Monthly Rate

		Misc. Capital - Capitalized Software									
			5								
			1.667%								
		Gross Capital Expenditure	Cumulative Gross Plant	Net Plant	Depreciation	Accumulated Depreciation	Annual Depreciation Expense	Return Carrying Charge Rate	Depreciation Carrying Charge Rate	Property Carrying Charge	Annual Carrying Charge
2017	January										
	February										
	March										
	April	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	May	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	June	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	July	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	August	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	September	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	October	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	November	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	December	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2019	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2020	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2021	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2022	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2023	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	-	-	-	-	-
2024	January	-	-	-	-	-		-	-	-	-

Note: Capital is booked one month in arrears.

gridSMART Phase 2 NBV  
Depreciation Tables

Asset Value  
Year Life  
Monthly Rate

		22,000 AMI Meters									
		Gross Capital Expenditure (booked cost)	Cumulative Gross Plant	Net Plant	Depreciation Reserve	Accumulated Depreciation	Annual Depreciation Expense	Return Carrying Charge Rate	Depreciation Carrying Charge Rate	Property Carrying Charge	Annual Carrying Charge
2017	April	\$5,967,610.89	5,967,610.89	1,835,388.46	\$40,778.67	\$4,132,222.43		16,120.83	40,778.67	4,664.95	61,564.45
	May	\$0.00	5,967,610.89	1,794,609.78	\$40,778.67	\$4,173,001.11		15,762.66	40,778.67	4,561.30	122,667.08
	June	\$0.00	5,967,610.89	1,753,831.11	\$40,778.67	4,213,779.78		15,404.48	40,778.67	4,457.65	183,307.89
	July	\$0.00	5,967,610.89	1,713,052.44	\$40,778.67	4,254,558.45		15,046.31	40,778.67	4,354.01	243,486.88
	August	\$0.00	5,967,610.89	1,672,273.76	\$40,778.67	4,295,337.13		14,688.14	40,778.67	4,250.36	303,204.06
	September	\$0.00	5,967,610.89	1,631,495.09	\$40,778.67	4,336,115.80		14,329.97	40,778.67	4,146.72	362,459.41
	October	\$0.00	5,967,610.89	1,590,716.41	\$40,778.67	4,376,894.48		13,971.79	40,778.67	4,043.07	421,252.95
	November	\$0.00	5,967,610.89	1,549,937.74	\$40,778.67	4,417,673.15		13,613.62	40,778.67	3,939.43	479,584.67
	December						\$326,229.40	-	-	-	-
2018	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2019	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2020	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2021	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2022	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2023	January	-	-	-	-	-		-	-	-	-
	February	-	-	-	-	-		-	-	-	-
	March	-	-	-	-	-		-	-	-	-
	April	-	-	-	-	-		-	-	-	-
	May	-	-	-	-	-		-	-	-	-
	June	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-		-	-	-	-
2024	January	-	-	-	-	-		-	-	-	-

Note: Capital is booked one month in arrears.



**ATTACHMENT 3**  
**NON FINANCIAL METRICS**

## NON FINANCIAL METRICS

AMI / Meter Metrics				
Physical Meters	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
<b># of Certified Meters</b> <i>See Appendix A for monthly detail</i>	The number of AMI meters installed, communicating, and available for billing within the Phase 2 deployment area.	Start of Phase 2 • # of Phase 1 Meters as of 2/1/2017 • Snapshot at baseline date	132,709	149,510
<b>AMI meters installed, but not certified</b> <i>See Appendix B for monthly detail</i>	The number of AMI meters installed, but not communicating and considered Active within the Phase 2 deployment area.	Start of Phase 2 • # of Phase 1 Meters as of 2/1/2017 • Snapshot at baseline date	0	0
<b>Certified smart meter failures</b> <i>See Appendix C for monthly detail</i>	The number of certified AMI Meters that are removed due to defect. • Includes Phase 1 & Phase 2 areas	End of Phase 1 • Total # of failures between 1/15/2009 and 12/31/2013 • Phase 1 footprint	403	2,064
<b>Meters salvaged (#)</b> <i>See Appendix D for monthly detail</i>	The number of meters removed from Phase 2 premises and sent to salvage.	End of Phase 1 • Total # of meters that were removed from Phase 1 premises	48,663	0
<b>Meters salvaged (\$)</b> <i>See Appendix D for monthly detail</i>	The dollar value of meters removed from Phase 2 premises and sent to salvage.	End of Phase 1 • Total \$ of meters that were removed from Phase 1 premises	\$48,176	\$0
<b>Meters transferred (#)</b> <i>See Appendix E for monthly detail</i>	The number of meters removed from Phase 2 Premises and transferred between AEP operating companies outside of Ohio.	End of Phase 1 • Total # of meters that were removed from Phase 1 premises between 12/1/2009 and 12/31/2013 and transferred to AEP operating companies outside of Ohio	9,522	3
<b>Meters transferred (\$)</b> <i>See Appendix E for monthly detail</i>	The dollar value of meters removed from Phase 2 Premises and transferred between AEP operating companies outside of Ohio.	End of Phase 1 • Total \$ of meters that were removed from Phase 1 premises between 12/1/2009 and 12/31/2013 and transferred to AEP operating companies outside of Ohio	\$260,177	\$202
Meter Reading	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
<b>Manual Meter Reads</b> <i>See Appendix F for monthly detail</i>	Within the Phase 2 deployment area, the number of meter reads conducted by an individual onsite for monthly billing.	Start of Phase 2 • 12 months ending 2/1/2017 • Total of monthly data • Within Phase 2 Footprint	7,901,118	7,814,617
<b>Successful ("actual" for the purpose of billing) AMI meter reads</b> <i>See Appendix G for monthly detail</i>	Within the Phase 2 deployment area, the total of "Actual" reads recorded from AMI meters.	Start with actuals as of first report date	n/a	61,098
<b>Successful ("actual" for the purpose of billing) AMR meter reads</b> <i>See Appendix H for monthly detail</i>	Within the Phase 2 deployment area, the total of "Actual" reads recorded from AMR meters.	Start with actuals as of first report date	n/a	1,993,691
<b>Meter readers employed by AEP Ohio, expressed in FTEs</b> <i>See Appendix I for monthly detail</i>	Number of meter readers (expressed in FTE) employed by AEP Ohio each month	End of Phase 1 • # of AEP Ohio meter readers as of 12/31/2013 • Snapshot at baseline date	101	84
<b>Meter readers employed by external contractor, expressed in FTEs</b> <i>See Appendix I for monthly detail</i>	Number of meter readers (expressed in FTE) employed by contractor each month	End of Phase 1 • # of contracted meter readers as of 12/31/2013 • Snapshot at baseline date	47	18

## NON FINANCIAL METRICS

AMI / Meter Metrics				
Billing Related	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
<b>Residential bills issued</b> <i>See Appendix J for monthly detail</i>	Number of residential bills issued each month, system-wide	Start of Phase 2 • 12 months ending 2/1/2017 • Total of monthly data	15,662,623	15,691,973
<b>Residential bills based upon estimated read</b> <i>See Appendix J for monthly detail</i>	Number of estimated residential bills issued each month, system-wide	Start of Phase 2 • 12 months ending 2/1/2017 • Total of monthly data	1,203,599	1,024,879
<b>Customers eligible for disconnect due to non-pay (System)</b> <i>See Appendix K for monthly detail</i>	Number of customers eligible for disconnection each month, system-wide	Start with actuals as of first report date	n/a	793,794
<b>Customers eligible for disconnect due to non-pay (Phase 2)</b> <i>See Appendix K for monthly detail</i>	Number of customers eligible for disconnection each month, Phase 2 deployment area only	Start with actuals as of first report date	n/a	492,844
<b>Non-Pay Disconnects (System)</b> <i>See Appendix K for monthly detail</i>	Number of customers disconnected due to non-pay each month, system-wide	Start with actuals as of first report date	n/a	104,522
<b>Non-Pay Disconnects (Phase 2)</b> <i>See Appendix K for monthly detail</i>	Number of customers disconnected due to non-pay each month, Phase 2 only	Start with actuals as of first report date	n/a	52,041
<b>Power theft cases (#)</b> <i>See Appendix L for monthly detail</i>	Number of power theft cases found each month, system-wide	Start of Phase 2 • Average monthly number as of 2/1/2017 • Average taken over 12 month period (2/2016 to 1/2017)	139 cases per month	129 cases per month
<b>Power theft cases (\$)</b> <i>See Appendix M for monthly detail</i>	Monetary value of power theft cases found each month, system-wide	Start of Phase 2 • Average monthly number as of 2/1/2017 • Average taken over 12 month period (2/2016 to 1/2017)	\$220 per case per month  \$30,465 total per month	\$211 per case per month  \$27,188 total per month
Customers Impact Measures	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
<b>Total call center calls</b> <i>See Appendix N for monthly detail</i>	Number of call center calls received each month, system-wide	Start of Phase 2 • 12 months ending 2/1/2017 • Total of monthly data	5,489,826	5,481,173
<b>Call center calls related to meter reading (IO40 Check Read Orders initiated at call center)</b> <i>See Appendix O for monthly detail</i>	Number of call center calls related to meter reading received each month, system-wide • Metric is being tracked as total of Check Read Orders (IO40s) issued by the call center.	Start with actuals as of first report date	n/a	25,711
<b>Call center calls related to billing complaints (IO04 HI/LO Bill Orders initiated at call center)</b> <i>See Appendix P for monthly detail</i>	Number of call center calls related to billing complaints received each month, system-wide. • Metric is being tracked as total of High/Low Bill complaint orders (IO04s) issued by the call center.	Start with actuals as of first report date	n/a	2,651

## NON FINANCIAL METRICS

DACR Metrics				
<b>**No Phase 2 DACR Circuit Schemes were added in 2017**</b>				
DACR Circuit Metrics	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
Circuits equipped with DACR	Number of Phase 2 circuits newly equipped with DACR each month	End of Phase 1 • # of circuits as of 12/31/2013	70	0
DACR opportunities	For Phase 2 circuits, number of opportunities for DACR to operate each month	Start with actuals as of first report date	n/a	0
DACR successes	For Phase 2 circuits, number opportunities when DACR operated as intended each month	Start with actuals as of first report date	n/a	0
DACR failures	For Phase 2 circuits, number of opportunities when DACR did not operate as intended each month	Start with actuals as of first report date	n/a	0
DACR Operational Efficiency Gains	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
Truck rolls related to an outage	For Phase 2 circuits, number of truck rolls related to an outage each month	Start with actuals as of first report date	n/a	0
Outage-related truck rolls avoided	For Phase 2 circuits, number of avoided truck rolls related to an outage each month	Start with actuals as of first report date	n/a	0
DACR Direct Customer Benefits	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
Customer Minutes Saved from self-healing events	For Phase 2 circuits, the total customer minutes interrupted (CMI) avoided monthly due to successful self-healing events. • Number of customers saved by DACR multiplied by an estimated outage duration • The estimated outage duration is an average of historical first step of restoration durations for outages in the impacted area	Start of Phase 2 • 12 months ending 2/1/2017 • Total of monthly data	2,602,115	0
Customer interruptions saved from self-healing events	For Phase 2 circuits, the total customer interruptions saved each month due to successful self-healing events	Start with actuals as of first report date	n/a	0
VVO Metrics				
<b>**No Phase 2 VVO Circuits were added in 2017**</b>				
VVO Energy Efficiency	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
MW saved due to VVO	Provided by Utilidata from M&V data; Phase 2 VVO circuits only • Total MW saved due to VVO per month, system-wide	Start with actuals as of first report date	n/a	0
MWh saved due to VVO	Provided by Utilidata from M&V data; Phase 2 VVO circuits only • Total MWh saved due to VVO per month, system-wide	Start with actuals as of first report date	n/a	0
Average system voltage	For Phase 2 VVO circuits only, the average of the voltage at the substation on the secondary side of regulation. This an average of all 3 phases over the entire month.	Start with actuals as of first report date	n/a	0
VVO GHG Impact	Metric Definition	Baseline Detail and Timeline	Baseline Value	2017 YE Value
Reduction in greenhouse gases due to VVO (estimate)	For Phase 2 circuits, the estimated reduction in greenhouse gases due to VVO per month • The number of MWh saved due to VVO on Phase 2 circuits, multiplied by 0.88442*  *Based on 2014 EPA eGRID number for RFC West subregion of 1,949.8 lbs of cO2 per MWh, converted to metric tons per MWh.	Start with actuals as of first report date	n/a	0



# Appendix A

## *Number of Certified Meters – Monthly Detail by AEP Service Area, Aggregated totals*

Phase 1 Footprint												
Premise Location by Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017
COLUMBUS - NE	121,078	121,115	121,125	121,142	121,148	121,160	121,160	121,186	121,203	121,222	121,252	121,286
COLUMBUS - NW	4,643	4,643	4,641	4,641	4,641	4,641	4,640	4,640	4,639	4,639	4,639	4,639
COLUMBUS - SE	6,790	6,793	6,798	6,797	6,796	6,795	6,794	6,792	6,789	6,789	6,786	6,785
COLUMBUS - SW	182	182	183	183	183	183	183	183	183	183	183	183
COLUMBUS-U/G NETWORK	12	12	12	12	12	12	12	12	12	12	12	12
DELAWARE	4	4	4	4	4	4	4	4	4	4	4	4
<b>Total Phase 1 Certified Meters</b>	<b>132,709</b>	<b>132,749</b>	<b>132,763</b>	<b>132,779</b>	<b>132,784</b>	<b>132,795</b>	<b>132,793</b>	<b>132,817</b>	<b>132,830</b>	<b>132,849</b>	<b>132,876</b>	<b>132,909</b>
Phase 2 Footprint												
Premise Location by Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017
COLUMBUS - NE	0	0	44	52	51	60	63	69	368	386	393	511
COLUMBUS - NW	0	0	1	3	3	15	24	40	155	174	176	700
COLUMBUS - SE	0	0	7	7	7	9	9	11	11	11	11	11
COLUMBUS - SW	0	0	0	2	2	3	6	6	7	7	7	13
DELAWARE	0	0	0	0	0	3	5	483	3,846	6,187	8,886	15,340
GALLIPOLIS	0	0	0	0	0	0	1	1	1	1	1	1
STEUBENVILLE	0	0	0	0	0	0	0	0	0	0	25	25
<b>Total Phase 2 Certified Meters</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>64</b>	<b>63</b>	<b>90</b>	<b>108</b>	<b>610</b>	<b>4,388</b>	<b>6,766</b>	<b>9,499</b>	<b>16,601</b>
<b>Total Certified Meters</b>	<b>132,709</b>	<b>132,749</b>	<b>132,815</b>	<b>132,843</b>	<b>132,847</b>	<b>132,885</b>	<b>132,901</b>	<b>133,427</b>	<b>137,218</b>	<b>139,615</b>	<b>142,375</b>	<b>149,510</b>

## **Appendix B**

### ***AMI Meters Installed but Not Certified*** – Phase 2 Monthly Detail

*No monthly data to report.*

# Appendix C

## Certified Smart Meter Failures – Monthly Detail by AEP Service Area

Phase 1 Footprint													
Premise Location by Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
COLUMBUS - NE	174	381	116	130	137	172	140	50	285	241	41	59	1,926
COLUMBUS - NW	6	7	8	3	7	4	3	3	16	11	1	2	71
COLUMBUS - SE	7	10	3	4	3	3	2	0	2	19	2	1	56
COLUMBUS - SW	0	1	0	0	1	1	0	0	0	0	0	0	3
<b>Phase 1 Smart Meter Failures</b>	<b>187</b>	<b>399</b>	<b>127</b>	<b>137</b>	<b>148</b>	<b>180</b>	<b>145</b>	<b>53</b>	<b>303</b>	<b>271</b>	<b>44</b>	<b>62</b>	<b>2,056</b>
Phase 2 Footprint													
Premise Location by Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
COLUMBUS - NE	0	0	0	0	0	0	0	0	1	1	0	0	2
COLUMBUS - NW	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMBUS - SE	0	0	1	0	0	0	0	0	0	0	0	0	1
DELAWARE	0	0	0	0	0	0	0	0	0	1	4	0	5
<b>Phase 2 Smart Meter Failures</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>8</b>
<b>Total Smart Meter Failures</b>	<b>187</b>	<b>399</b>	<b>128</b>	<b>137</b>	<b>148</b>	<b>180</b>	<b>145</b>	<b>53</b>	<b>304</b>	<b>273</b>	<b>48</b>	<b>62</b>	<b>2,064</b>

## **Appendix D**

### ***Meters Salvaged – Phase 2 Monthly Detail***

*No monthly data to report.*

# Appendix E

## *Meters Transferred – Phase 2 Monthly Detail*

Receiving State	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
IN	0	0	0	0	0	0	0	0	0	1	0	0	1
KY	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Total Meters Transferred</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>
<b>*Value of Meters Transferred</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$67</b>	<b>\$0</b>	<b>\$135</b>	<b>\$202</b>

*\*Per Meter Value of \$67.40*

# Appendix F

## Manual Meter Reads – Monthly Detail by Service Area

AEP Ohio Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
ATHENS	8,673	9,697	9,278	9,990	10,246	10,146	8,335	9,849	9,049	9,934	9,351	8,293	112,841
BELLAIRE	7,502	7,451	7,505	6,860	7,438	7,422	7,022	7,385	6,984	7,405	7,021	6,555	86,550
BUCYRUS	6,850	8,727	8,635	8,123	8,674	8,655	8,163	8,725	8,380	8,235	8,310	6,453	97,930
CAMBRIDGE	4,305	3,485	4,212	3,431	4,162	4,126	3,770	4,144	3,787	4,104	4,121	2,349	45,996
CANTON	82,410	77,549	74,349	66,467	72,710	70,408	71,153	79,788	79,331	72,396	75,871	66,088	888,520
CHESAPEAKE	31	30	30	30	31	30	32	30	30	31	31	26	362
CHILLICOTHE	15,157	15,198	15,126	14,956	15,041	15,039	14,929	14,978	14,265	14,516	14,470	14,592	178,267
CIRCLEVILLE	5,869	4,306	6,073	5,886	5,951	4,427	5,828	6,031	4,712	5,900	4,921	2,321	62,225
COLUMBUS - NE	22,694	21,547	22,395	22,164	21,864	16,380	13,710	16,636	19,050	16,707	20,465	18,504	232,116
COLUMBUS - NW	125,089	120,302	123,872	115,179	123,309	114,470	104,843	102,785	96,378	100,820	96,327	99,651	1,323,025
COLUMBUS - SE	99,258	89,624	101,144	85,689	99,826	95,785	77,736	82,637	77,325	81,277	79,087	81,119	1,050,507
COLUMBUS - SW	106,067	106,920	109,037	106,489	109,514	95,653	92,808	86,045	89,367	92,092	93,606	95,760	1,183,358
COLUMBUS-U/G NETWORK	782	838	894	707	938	890	779	666	456	771	625	782	9,128
COSHOCTON	6,097	2,846	3,161	5,491	6,467	6,062	5,954	5,879	5,513	5,696	6,132	3,960	63,258
CROOKSVILLE	2	2	2	1	1	1	1	1	1	1	1	1	15
DELAWARE	26,826	24,273	22,636	21,305	23,082	17,851	16,386	22,809	23,591	20,788	15,794	16,716	252,057
EAST LIVERPOOL	4,118	4,168	4,231	2,916	4,126	4,016	3,129	4,188	3,533	3,877	3,424	3,299	45,025
FINDLAY	14,959	15,272	15,300	14,017	15,303	15,043	15,246	15,056	14,916	15,181	14,909	13,169	178,371
FOSTORIA	5,710	5,875	6,077	6,037	5,838	6,039	6,043	6,031	6,064	6,053	6,078	6,094	71,939
FREMONT	8,533	9,631	9,843	8,993	9,925	9,843	8,322	9,814	9,861	9,913	8,753	7,713	111,144
GALLIPOLIS	1,877	1,787	1,870	1,669	1,873	1,875	1,502	1,915	1,796	1,867	1,334	1,677	21,042
HILLSBORO	3,925	3,169	3,942	3,397	3,757	3,911	3,368	3,855	3,273	3,884	3,853	3,141	43,475
IRONTON	3,870	3,514	3,878	3,815	3,845	3,810	3,728	3,827	3,719	3,350	3,470	2,629	43,455
KENTON	3,874	3,836	3,730	3,583	3,878	3,750	3,395	3,858	3,572	3,829	3,536	3,534	44,375
LANCASTER	5,298	4,733	5,249	4,677	5,230	5,184	4,789	5,236	4,752	5,191	4,759	4,343	59,441
LIMA-ALL	22,211	24,113	24,959	22,518	24,513	24,891	20,663	24,415	23,173	24,220	23,229	19,896	278,801
MARIETTA	4,847	4,614	3,085	5,516	5,685	5,589	1,931	3,704	5,758	5,918	4,300	4,913	55,860
MOUNT VERNON	9,789	8,695	8,634	8,680	9,730	8,919	8,988	9,690	8,824	9,665	7,984	3,165	102,763
NEW PHILADELPHIA	6,034	5,690	6,056	4,154	6,037	5,966	5,062	5,183	5,932	5,933	5,953	5,633	67,633
NEWARK-ALL	37,104	33,715	37,263	35,407	37,267	37,146	32,244	37,178	31,730	35,354	36,271	31,078	421,757
PORTSMOUTH	13,472	12,286	13,391	12,568	13,412	13,302	12,579	13,339	11,957	13,297	12,576	11,459	153,638
STEUBENVILLE	4,394	3,862	4,314	4,268	4,275	4,307	4,084	4,233	4,206	3,879	4,241	4,192	50,255
TIFFIN	8,508	8,710	8,610	7,708	8,598	8,710	8,279	8,636	8,524	8,594	8,580	6,594	100,051
VAN WERT	5,259	4,904	5,274	5,046	5,228	5,245	4,297	5,265	5,060	5,005	5,221	3,515	59,319
WILLARD	2,326	3,297	3,224	3,101	3,305	3,298	3,262	3,254	3,261	3,254	3,285	2,403	37,270
WOOSTER	7,884	7,837	7,453	6,296	7,819	7,805	7,759	7,795	7,716	7,581	6,325	6,375	88,645
ZANESVILLE	17,231	14,352	13,350	14,712	18,075	17,871	16,602	17,598	17,150	17,538	16,207	13,517	194,203
<b>Total Manual Reads</b>	<b>708,835</b>	<b>676,855</b>	<b>698,082</b>	<b>651,846</b>	<b>706,973</b>	<b>663,865</b>	<b>606,721</b>	<b>642,458</b>	<b>622,996</b>	<b>634,056</b>	<b>620,421</b>	<b>581,509</b>	<b>7,814,617</b>

## Appendix G

### *Successful AMI Meter Reads – Monthly Detail by Service Area*

AEP Ohio Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
COLUMBUS - NE	0	0	112	72	71	80	69	80	951	421	402	742	<b>3,000</b>
COLUMBUS - NW	0	0	2	5	3	33	33	66	339	210	183	1,703	<b>2,577</b>
COLUMBUS - SE	0	0	13	7	7	13	9	15	9	11	9	11	<b>104</b>
COLUMBUS - SW	0	0	0	4	2	4	11	5	8	6	7	21	<b>68</b>
DELAWARE	0	0	0	0	0	9	8	958	9,631	10,691	11,826	22,130	<b>55,253</b>
GALLIPOLIS	0	0	0	0	0	0	2	1	1	1	1	1	<b>7</b>
STEUBENVILLE	0	0	0	0	0	0	0	0	0	0	64	25	<b>89</b>
<b>Total Manual Reads</b>	<b>0</b>	<b>0</b>	<b>127</b>	<b>88</b>	<b>83</b>	<b>139</b>	<b>132</b>	<b>1,125</b>	<b>10,939</b>	<b>11,340</b>	<b>12,492</b>	<b>24,633</b>	<b>61,098</b>

# Appendix H

## Successful AMR Meter Reads – Monthly Detail by Service Area

AEP Ohio Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
ATHENS	3,756	3,723	3,795	3,607	4,140	3,833	3,950	4,158	3,664	3,709	3,599	3,716	45,650
BELLAIRE	2,470	2,517	2,609	2,552	2,569	2,593	2,383	2,623	2,580	2,660	2,582	2,359	30,497
BUCYRUS	1,604	1,592	1,685	1,643	1,722	1,735	1,661	1,754	1,618	1,684	1,703	1,467	19,868
CAMBRIDGE	3,251	2,749	3,336	3,158	3,347	3,299	2,954	3,365	3,259	3,351	3,283	2,530	37,882
CANTON	14,790	14,135	15,183	14,052	15,238	15,165	14,930	15,608	15,408	15,805	15,595	14,801	180,710
CHESAPEAKE	67	70	70	66	66	70	70	68	66	65	62	65	805
CHILLICOTHE	2,404	2,434	2,442	2,454	2,502	2,470	2,455	2,521	2,444	2,563	2,470	2,598	29,757
CIRCLEVILLE	999	762	1,025	977	1,029	821	1,002	1,056	858	1,069	882	483	10,963
COLUMBUS - NE	3,837	2,251	4,195	3,941	4,028	3,392	3,385	3,781	3,943	3,835	4,150	4,019	44,757
COLUMBUS - NW	11,431	11,326	11,733	11,560	11,876	11,165	11,206	10,386	9,995	10,505	10,413	10,298	131,894
COLUMBUS - SE	42,267	34,675	43,097	40,280	43,021	42,173	40,412	40,542	40,114	40,788	40,571	40,798	488,738
COLUMBUS - SW	19,387	19,736	20,611	20,064	20,670	18,366	19,984	16,884	19,136	19,140	19,346	17,793	231,117
COLUMBUS-U/G NETWORK	312	477	514	396	512	486	411	453	297	229	291	498	4,876
COSHOCTON	988	767	682	995	1,002	1,026	1,011	1,064	997	1,002	1,044	874	11,452
CROOKSVILLE	4	4	4	4	4	4	4	4	4	4	5	4	49
DELAWARE	5,905	5,862	5,849	5,642	5,940	5,617	5,462	6,298	5,209	5,589	4,607	5,377	67,357
EAST LIVERPOOL	3,694	4,130	4,270	3,450	4,241	4,276	3,905	4,367	3,269	4,331	3,969	2,506	46,408
FINDLAY	2,286	2,281	2,366	1,973	2,405	2,372	2,417	2,443	2,398	2,427	2,439	2,202	28,009
FOSTORIA	1,611	1,701	1,724	1,726	1,718	1,731	1,763	1,762	1,790	1,765	1,750	1,778	20,819
FREMONT	1,558	1,443	1,650	1,093	1,712	1,692	1,584	1,704	1,685	1,738	1,610	1,365	18,834
GALLIPOLIS	611	573	622	621	635	628	464	624	525	623	476	503	6,905
HILLSBORO	735	611	780	669	770	759	746	774	751	790	776	741	8,902
IRONTON	2,653	2,632	2,719	2,390	2,687	2,711	2,604	2,691	2,646	2,665	2,552	2,316	31,266
KENTON	757	708	766	708	777	779	777	802	775	830	767	713	9,159
LANCASTER	3,413	2,841	3,498	3,416	3,554	3,575	3,509	3,545	3,439	3,564	3,417	3,375	41,146
LIMA-ALL	5,169	5,488	5,667	5,401	5,527	5,732	5,218	5,728	5,679	5,740	5,564	5,413	66,326
MARIETTA	1,456	1,334	1,518	1,386	1,492	1,490	1,317	1,524	1,397	1,539	1,504	1,186	17,143
MCCONNELSVILLE	1	1	1	1	1	1	1	1	1	1	1	1	12
MOUNT VERNON	1,471	1,395	1,521	1,373	1,514	1,542	1,376	1,559	1,463	1,615	1,520	1,406	17,755
NEW PHILADELPHIA	1,418	1,416	1,466	1,473	1,482	1,490	1,477	1,524	1,505	1,550	1,506	1,498	17,805
NEWARK-ALL	5,558	5,486	5,870	5,550	5,944	5,925	5,281	6,021	5,666	6,043	6,070	5,283	68,697
PORTSMOUTH	4,509	4,217	4,581	4,386	4,645	4,596	4,467	4,706	4,112	4,708	4,483	4,217	53,627
STEBENVILLE	6,473	6,492	6,507	6,575	6,566	6,511	6,440	6,612	5,965	6,421	6,154	6,536	77,252
TIFFIN	1,555	1,690	1,696	1,595	1,724	1,786	1,724	1,782	1,779	1,797	1,812	1,815	20,755
VAN WERT	785	702	798	774	816	827	763	861	800	849	804	688	9,467
WELLSTON	14	14	14	14	14	14	14	14	14	17	17	18	178
WILLARD	522	654	685	617	689	694	682	693	687	696	687	692	7,998
WOOSTER	3,219	3,222	3,225	3,259	3,262	3,280	3,312	3,406	3,364	3,350	3,355	3,385	39,639
ZANESVILLE	4,195	3,823	4,137	3,897	4,205	4,291	4,208	4,311	4,098	4,321	4,171	3,560	49,217
<b>Total Manual Reads</b>	<b>167,135</b>	<b>155,934</b>	<b>172,911</b>	<b>163,738</b>	<b>174,046</b>	<b>168,917</b>	<b>165,329</b>	<b>168,019</b>	<b>163,400</b>	<b>169,378</b>	<b>166,007</b>	<b>158,877</b>	<b>1,993,691</b>



**Appendix I*****AEP Ohio Meter Readers – Monthly Detail (AEP Employees and Contractors)***

	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017
<b>AEP_Employee</b>	84	83	79	81	80	79	74	77	80	83	85	<b>84</b>
<b>AEP_Contractor</b>	26	26	25	23	23	19	16	19	17	17	15	<b>18</b>
<b>Total Meter Readers</b>	<b>110</b>	<b>109</b>	<b>104</b>	<b>104</b>	<b>103</b>	<b>98</b>	<b>90</b>	<b>96</b>	<b>97</b>	<b>100</b>	<b>100</b>	<b>102</b>

**Appendix J*****Residential Bills Issued – Monthly Detail (Actual & Estimate)***

<b>Residential Bill Type</b>	<b>Jan-2017</b>	<b>Feb-2017</b>	<b>Mar-2017</b>	<b>Apr-2017</b>	<b>May-2017</b>	<b>Jun-2017</b>	<b>Jul-2017</b>	<b>Aug-2017</b>	<b>Sep-2017</b>	<b>Oct-2017</b>	<b>Nov-2017</b>	<b>Dec-2017</b>	<b>YE TOTAL</b>
<b>ACTUAL</b>	1,263,606	1,257,912	1,248,669	1,239,757	1,254,772	1,213,103	1,187,661	1,182,199	1,199,444	1,196,944	1,207,856	1,215,171	14,667,094
<b>ESTIMATE</b>	40,060	42,265	64,801	66,993	58,232	97,904	126,620	133,517	83,747	115,199	104,623	90,918	1,024,879
<b>Total Bills Issued</b>	<b>1,303,666</b>	<b>1,300,177</b>	<b>1,313,470</b>	<b>1,306,750</b>	<b>1,313,004</b>	<b>1,311,007</b>	<b>1,314,281</b>	<b>1,315,716</b>	<b>1,283,191</b>	<b>1,312,143</b>	<b>1,312,479</b>	<b>1,306,089</b>	<b>15,691,973</b>

## Appendix K

### *Customer Disconnects – Monthly Detail (Eligible and Disconnected)*

<b>Customers Eligible for Disconnect</b>	<b>Jan-2017</b>	<b>Feb-2017</b>	<b>Mar-2017</b>	<b>Apr-2017</b>	<b>May-2017</b>	<b>Jun-2017</b>	<b>Jul-2017</b>	<b>Aug-2017</b>	<b>Sep-2017</b>	<b>Oct-2017</b>	<b>Nov-2017</b>	<b>Dec-2017</b>	<b>YE TOTAL</b>
<b>AEP Ohio - System Wide</b>	66,542	66,008	75,163	58,908	69,613	53,706	52,916	70,069	72,014	76,464	68,850	63,541	793,794
<b>AEP Ohio - Phase 2</b>	40,969	41,510	45,956	36,885	41,976	32,926	33,143	43,136	46,007	47,259	42,892	40,185	492,844

  

<b>Non Pay Disconnects</b>	<b>Jan-2017</b>	<b>Feb-2017</b>	<b>Mar-2017</b>	<b>Apr-2017</b>	<b>May-2017</b>	<b>Jun-2017</b>	<b>Jul-2017</b>	<b>Aug-2017</b>	<b>Sep-2017</b>	<b>Oct-2017</b>	<b>Nov-2017</b>	<b>Dec-2017</b>	<b>YE TOTAL</b>
<b>AEP Ohio - System Wide</b>	9,155	6,517	9,587	8,222	11,173	9,317	7,412	10,856	9,245	11,514	8,421	3,103	104,522
<b>AEP Ohio - Phase 2</b>	4,637	3,776	4,603	4,182	5,592	4,713	3,797	5,626	4,306	5,487	4,007	1,315	52,041

**Appendix L****Number of Power Theft Cases – Monthly Detail by AEP Service Area**

AEP Ohio Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
BELLAIRE	2	1	0	0	1	0	0	1	0	0	1	3	9
BUCYRUS	1	2	1	4	4	3	1	4	1	1	4	1	27
CAMBRIDGE	4	3	0	1	2	2	1	0	2	1	2	0	18
CANTON	23	29	23	12	19	16	32	41	42	46	51	30	364
CHILlicoTHE	0	2	0	0	0	0	0	0	0	0	0	0	2
COLUMBUS - NE	7	6	3	1	4	3	4	4	10	1	5	3	51
COLUMBUS - NW	4	2	2	1	0	1	3	0	6	0	1	0	20
COLUMBUS - SE	28	29	32	10	11	22	31	12	9	7	17	9	217
COLUMBUS - SW	15	19	16	7	10	20	11	7	13	8	3	8	137
COSHocTON	0	4	2	0	0	2	4	0	0	1	2	0	15
CROOKSVILLE	0	2	2	0	2	0	0	1	0	0	3	1	11
DELAWARE	1	2	0	0	4	2	2	3	3	2	2	1	22
EAST LIVERPOOL	6	4	2	0	0	2	3	1	1	3	6	5	33
FINDLAY	1	2	2	1	2	3	1	1	0	1	2	3	19
FoSTORIA	1	0	0	1	2	0	0	1	2	1	1	0	9
FREMONT	2	0	1	0	1	0	1	2	0	0	2	2	11
GALLIPOLIS	0	0	0	0	0	0	0	1	0	0	0	0	1
IRONTON	0	0	0	0	0	0	0	0	0	0	1	1	2
KENTON	0	1	0	1	0	0	0	5	0	2	3	2	14
LANCASTER	13	2	4	2	2	3	1	2	3	1	0	6	39
LIMA-ALL	13	12	11	8	8	11	7	5	11	5	22	10	123
MARIETTA	2	1	5	0	0	0	0	0	0	0	0	0	8
MCCONNELSVILLE	1	1	0	1	3	1	0	0	0	0	1	0	8
MoUNT VERNON	3	3	3	0	2	1	1	4	3	1	4	3	28
NEw PHILADELPHIA	3	3	1	1	3	3	3	1	4	9	4	11	46
NEwARK-ALL	4	27	19	0	7	5	5	4	9	6	13	11	110
*NO_PREM	1	0	0	1	0	0	1	0	0	0	0	0	3
PAULDING	1	0	0	0	2	0	0	1	0	2	0	1	7
STeUBENVILLE	3	5	8	11	5	5	4	1	9	9	9	6	75
TIFFIN	0	0	0	1	1	0	0	1	2	2	2	1	10
UNION CITY	0	2	0	0	0	0	0	0	0	0	0	0	2
VAN WERT	2	0	1	0	2	2	3	4	0	0	2	2	18
WELLSTON	0	0	0	0	0	1	0	0	0	0	0	0	1
WILLARD	2	0	1	0	0	1	2	1	1	0	0	1	9
WoOSTER	2	3	1	1	2	1	3	1	2	7	4	6	33
ZANESVILLE	13	2	5	0	0	1	2	9	5	3	7	0	47
<b>Total Power Theft</b>	<b>158</b>	<b>169</b>	<b>145</b>	<b>65</b>	<b>99</b>	<b>111</b>	<b>126</b>	<b>118</b>	<b>138</b>	<b>119</b>	<b>174</b>	<b>127</b>	<b>1549</b>

\*NO\_PREM - Indicates a Billing Account that has been billed for power theft but does not have associated premise location information.

**Average Monthly Number of Cases** **129**

# Appendix M

## Total Value of Power Theft Cases – Monthly Detail by AEP Service Area

AEP Ohio Service Area	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
BELLAIRE	\$244	\$506	\$0	\$0	\$68	\$0	\$0	\$122	\$0	\$0	\$762	\$293	\$1,995
BUCYRUS	\$49	\$171	\$122	\$712	\$488	\$244	\$122	\$626	\$109	\$122	\$512	\$122	\$3,399
CAMBRIDGE	\$458	\$463	\$0	\$122	\$98	\$244	\$122	\$0	\$974	\$224	\$793	\$0	\$3,498
CANTON	\$5,019	\$4,328	\$5,085	\$1,872	\$3,808	\$2,189	\$4,503	\$7,756	\$11,642	\$5,914	\$13,008	\$7,670	\$72,794
CHILlicoTHE	\$0	\$1,594	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,594
COLUMBUS - NE	\$1,224	\$1,155	\$302	\$328	\$891	\$2,063	\$834	\$925	\$2,114	\$438	\$829	\$609	\$11,712
COLUMBUS - NW	\$936	\$244	\$244	\$49	\$0	\$170	\$399	\$0	\$1,425	\$0	\$59	\$0	\$3,527
COLUMBUS - SE	\$6,430	\$8,377	\$8,136	\$3,384	\$3,404	\$7,320	\$6,653	\$2,394	\$2,160	\$1,834	\$5,599	\$1,757	\$57,448
COLUMBUS - SW	\$5,121	\$5,135	\$4,608	\$1,768	\$2,776	\$3,875	\$1,713	\$1,028	\$1,747	\$3,812	\$329	\$2,046	\$33,957
COSHOCOTON	\$0	\$843	\$137	\$0	\$0	\$204	\$415	\$0	\$0	\$49	\$244	\$0	\$1,892
CROOKSVILLE	\$0	\$98	\$171	\$0	\$98	\$0	\$0	\$49	\$0	\$0	\$220	\$397	\$1,033
DELAWARE	\$122	\$366	\$0	\$0	\$521	\$442	\$295	\$366	\$415	\$143	\$371	\$284	\$3,325
EAST LIVERPOOL	\$1,750	\$761	\$171	\$0	\$0	\$463	\$336	\$13	\$155	\$201	\$509	\$1,674	\$6,032
FINDLAY	\$122	\$566	\$520	\$122	\$249	\$756	\$122	\$122	\$0	\$49	\$378	\$850	\$3,856
FOSTORIA	\$122	\$0	\$0	\$122	\$244	\$0	\$0	\$187	\$684	\$142	\$122	\$0	\$1,622
FREMONT	\$371	\$0	\$171	\$0	\$122	\$0	\$122	\$290	\$0	\$0	\$244	\$244	\$1,564
GALLIPOLIS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$272	\$0	\$0	\$0	\$0	\$272
IRONTON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$122	\$104	\$226
KENTON	\$0	\$49	\$0	\$49	\$0	\$0	\$0	\$700	\$0	\$720	\$688	\$284	\$2,490
LANCASTER	\$4,264	\$339	\$269	\$171	\$98	\$220	\$49	\$244	\$220	\$160	\$0	\$1,248	\$7,282
LIMA-ALL	\$2,690	\$2,507	\$3,932	\$1,100	\$1,196	\$1,239	\$847	\$763	\$1,721	\$487	\$4,301	\$2,485	\$23,269
MARIETTA	\$244	\$122	\$669	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,035
MCCONNELSVILLE	\$325	\$596	\$0	\$122	\$245	\$122	\$0	\$0	\$0	\$0	\$335	\$0	\$1,744
MOUNT VERNON	\$411	\$374	\$303	\$0	\$171	\$122	\$434	\$464	\$447	\$49	\$618	\$374	\$3,767
NEW PHILADELPHIA	\$1,349	\$1,941	\$1,900	\$49	\$196	\$698	\$420	\$49	\$2,274	\$1,152	\$844	\$3,617	\$14,488
NEWARK-ALL	\$1,662	\$2,911	\$2,490	\$0	\$1,461	\$610	\$537	\$342	\$952	\$440	\$2,126	\$5,482	\$19,015
*NO_PREM	\$154	\$0	\$0	\$49	\$0	\$0	\$159	\$0	\$0	\$0	\$0	\$0	\$362
PAULDING	\$49	\$0	\$0	\$0	\$249	\$0	\$0	\$443	\$0	\$722	\$0	\$122	\$1,585
STEUDEVILLE	\$147	\$3,349	\$2,568	\$2,577	\$1,124	\$1,115	\$508	\$65	\$2,399	\$1,783	\$1,923	\$2,098	\$19,656
TIFFIN	\$0	\$0	\$0	\$122	\$122	\$0	\$0	\$677	\$244	\$244	\$428	\$122	\$1,959
UNION CITY	\$0	\$629	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$629
VAN WERT	\$171	\$0	\$49	\$0	\$277	\$288	\$293	\$392	\$0	\$0	\$171	\$424	\$2,065
WELLSTON	\$0	\$0	\$0	\$0	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$35
WILLARD	\$98	\$0	\$122	\$0	\$0	\$122	\$216	\$122	\$122	\$0	\$0	\$49	\$851
WOOSTER	\$1,083	\$1,118	\$287	\$131	\$835	\$122	\$548	\$199	\$205	\$1,504	\$1,132	\$1,811	\$8,975
ZANESVILLE	\$2,749	\$518	\$1,166	\$0	\$0	\$49	\$171	\$879	\$573	\$300	\$898	\$0	\$7,302
<b>Total Power Theft</b>	<b>\$37,363</b>	<b>\$39,060</b>	<b>\$33,422</b>	<b>\$12,849</b>	<b>\$18,740</b>	<b>\$22,711</b>	<b>\$19,818</b>	<b>\$19,489</b>	<b>\$30,582</b>	<b>\$20,489</b>	<b>\$37,563</b>	<b>\$34,166</b>	<b>\$326,252</b>

\*NO\_PREM - Indicates a Billing Account that has been billed for power theft but does not have associated premise location information.

**Average Monthly Total Value of Power Theft Cases** **\$27,188**

**Average Value of Power Theft Per Case** **\$211**

## Appendix N

### Total Call Center Calls – Monthly Totals

	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	2017 YE
Call Volume	448,912	403,026	477,019	402,742	478,182	520,115	540,028	511,067	445,988	444,667	418,167	391,260	5,481,173

# Appendix O

## Call Center Calls Related to Meter Reading – Monthly Totals

*\*This metric is reported as the number of IO40 Check Read Orders Initiated due to Customer Calls to AEP Ohio Call Center*

Order Type	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
IO40 (Check Read)	1,875	1,407	1,473	1,596	1,487	1,985	1,755	3,580	3,764	2,358	1,917	2,514	25,711

## Appendix P

### Call Center Calls Related to Billing Complaints – Monthly Totals

*\*This metric is reported as the number of IO04 High/Low Bill Orders Initiated due to Customer Calls to AEP Ohio Call Center*

Order Type	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	YE TOTAL
IO4 (High/Low Bill)	436	271	222	148	152	118	144	179	231	221	193	336	2,651



**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

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**in**

**Case No(s). 17-1156-EL-RDR**

Summary: Correspondence - gridSMART Phase 2 Rider Update for 4th Quarter electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company