

**BEFORE  
THE PUBLIC UTILITIES COMMISSION OF OHIO**

<b>In the Matter of the Application</b>	)	
<b>of Ohio Power Company</b>	)	<b>Case No. 17-1156-EL-RDR</b>
<b>to update its gridSMART Phase 2</b>	)	
<b>Rider rates.</b>	)	

**APPLICATION**

1. Ohio Power Company (“AEP Ohio” or the “Company”) is an electric light company, as that term is defined in §§4905.03 and 4928.01(A) (7), Ohio Rev. Code.
2. In AEP Ohio’s 2008 Electric Security Plan proceedings (*ESP I*) the Company proposed and was granted approval for gridSMART Phase I, a smart grid deployment program within AEP Ohio’s service territory. In its Opinion and Order in the *ESP I* case, the Commission authorized AEP Ohio to establish a gridSMART rider, subject to annual reconciliation.<sup>1</sup>
3. By Order issued on August 8, 2012, the Commission approved, with certain modifications, AEP Ohio's modified *ESP II* application which included the continuation of the current gridSMART rider mechanism, subject to annual true-up and reconciliation based on the Company's prudently incurred costs.<sup>2</sup>

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<sup>1</sup> *In re AEP Ohio ESP I*, Case Nos. 08-917-EL-SSO and 08-918-EL-SSO, Opinion and Order (March 18, 2009), at 37-38. A complete recounting of the gridSMART rider approval process was included in AEP Ohio’s initial application to update its gridSMART rider, filed in Case No. 10-164-EL-RDR on February 11, 2010, and a subsequent amendment filed on July 21, 2010. On August 11, 2010, the Commission issued its Finding and Order in that case approving the gridSMART rider as a fixed monthly, per-bill charge.

<sup>2</sup> *In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to Section*

4. On February 2, 2015, AEP Ohio filed an application to update its gridSMART rider rates in Case No. 15-240-EL-RDR.
5. By Order issued in the ESP III (Case No. 13-2385-EL-SSO et al. February 25-2015 Opinion and Order at 50-52) the Commission granted the Company's request to continue the gridSMART rider with certain modifications as proposed by the Company. Consistent with the Commission's directive in the ESP II (Case No. 11-346-EL-SSO Jan. 30, 2013 Entry on Rehearing at 53.), the Company, within 90 days after the expiration of ESP II, was required to file an application for review and reconciliation of the final year of the gridSMART Phase 1 rider. Additionally, in the ESP III Order the Commission approved AEP Ohio's request to transfer the approved capital cost balance into the DIR, and to also transfer any unrecovered O&M balance into the gridSMART Phase 2 rider, after the Commission has reviewed and reconciled gridSMART Phase 1 costs.
6. On August 28, 2015 AEP Ohio filed its Final application in to update its gridSMART rider rates in Case No. 15-1513-EL-RDR. The filing reflected actual project spending and recovery from January through May 2015 and capital carrying costs from June through December 2015.
7. On February 1, 2017 the Commission issued an Opinion and Order in gridSMART Case No. 13-1939-EL-RDR (*Phase 2 Order*) granting approval of the collections of costs incurred for the gridSMART Phase 2 project through the Phase 2 rider. The Phase 2 Order directed that upon Commission

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4928.143, Revised Code, in the Form of an Electric Security Plan, Case No. 11-346-EL-SSO et al., Opinion and Order (August 8, 2012) at 61-63.

approval of the gridSMART Phase 2 Stipulation, the Company will move the approved Phase 1 assets to the DIR and file for any unrecovered O&M expenses in a gridSMART Phase 2 rider application.

8. On April 19, 2017 the Commission issued a Finding and Order in Case Nos. 15-240-EL-RDR and 15-1513-EL-RDR (*Phase 1 Order*). The Order modified and approved actual gridSMART Phase 1 O&M through May of 2015, and Capital through December 2015. The new rates commenced on April 28, 2017.
9. On April 28, 2017 the Company submitted its gridSMART Phase 2 rider updated application for the first quarter 2017. In accordance with the Phase 2 Order the Company moved the approved Phase 1 assets to the DIR as of April 1, 2017. The table below outlines the Phase 1 changes made as a result of the Phase 1 and Phase 2 orders:

<b>Phase 1 Order- Compliance</b>	<b>Phase 2 Order– 1<sup>st</sup> Quarter 2017 Update</b>
<ul style="list-style-type: none"> <li>• O&amp;M through May 2015</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing O&amp;M June 2015 through March 2017</li> </ul>
<ul style="list-style-type: none"> <li>• Capital Carrying Charges through December 2015</li> </ul>	<ul style="list-style-type: none"> <li>• Capital Carrying Charges from January 2016 through March 2017</li> </ul>
<ul style="list-style-type: none"> <li>• Rider Collection through December 2015</li> </ul>	<ul style="list-style-type: none"> <li>• Rider Collections January 2016 through March 2017</li> </ul>

10. The Company hereby submits its gridSMART Phase 2 rider application updated for the second quarter 2017. Attachment 1 reflects the actual Phase 2 O&M spending and Capital Carrying Charges from April through June 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 from the first quarter because the first quarter update only included O&M and Capital Carrying Charges transferred from Phase 1 that 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 Rider Revenue Collections from the 1<sup>st</sup> Quarter filing. Workpapers 2 and 3 detail the calculation of carrying charges for Phase 2 Capital Spending and the additional twenty-two thousand meters mentioned above. Attached as Attachment 2 are revised tariff sheets 485-1 and 485-1D, reflecting the revised gridSMART Phase 2 Rider rates.

11. The Phase 2 Order also required quarterly filings with automatic approval 30 days after the filing unless otherwise determined by the Commission. Therefore, absent Commission intervention the Company requests the rate from this filing be effective Cycle 1 September 2017.
12. Because the authority to make this filing stems from the Commission's directives in the ESP II and III proceedings, AEP Ohio does not believe a hearing in this matter is necessary.
13. AEP Ohio's gridSMART rider has been previously approved as just and reasonable and is authorized as part of its ESP. Therefore, AEP Ohio respectfully requests that the Commission approve this application.

Respectfully submitted,

/s/Steven T. Nourse

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# Ohio Power Company gridSMART Phase 2 2nd Quarter 2017 True-up

Line No.	gridSMART Incremental Investment	Actual gridSMART Spending	Annual Carrying Charge	gridSMART Revenue Requirement
1	Apr 2017 - Jun 2017:			
2	Phase 2: O&M (AMI, VVO, DACR)	\$ 814,040		\$ 814,040
3	Total	\$ 814,040		\$ 814,040
<b>Phase 2: Incremental Investment Apr - Jun 2017</b>				
		gridSMART Spending	Annual Carrying Charge	gridSMART Revenue Requirement
4	Capital - 15 Year Life- AMI		\$ 122,847	\$ 122,847
5	Capital - 30 Year Life - VVO		\$ -	\$ -
6	Capital - 30 Year Life - DACR		\$ -	\$ -
7	Misc. Capital		\$ -	\$ -
8	Total Capital			\$ 122,847
9			Total	\$ 936,886
10			Tax Gross Up Rate	100.881%
11			Revenue Requirement	\$ 945,140
12	Residential Allocation	45%	Residential Revenue Requirement	425,313
13	Non-Res Base Allocation	55%	Non-Res Revenue Requirement	519,827
14			<b>2016</b> Residential Customers	1,278,483 0.33
15			Non-Residential Customers	189,247 2.75
<b>2nd Quarter 2017 Filing - Quarterly Collection</b>				
16	Attachment 1		Residential Customers Monthly Rate	\$ 0.11
17	Attachment 1		Non-Residential Customers Monthly Rate	\$ 0.92
<b>1st Quarter 2017 Filing - Annual Collection</b>				
18	Attachment 1 (a)		Residential Customers Monthly Rate	\$ 0.14
19	Attachment 1 (a)		Non-Residential Customers Monthly Rate	\$ 1.12
<b>1st Quarter 2017 Filing - Annual Collection (Refund)</b>				
20	Attachment 2 (b)		Residential Customers Monthly Rate	\$ (0.77)
21	Attachment 2 (b)		Non-Residential Customers Monthly Rate	\$ (3.25)
22	Total		Residential Customers Monthly Rate	\$ (0.52)
23	Total		Non-Residential Customers Monthly Rate	\$ (1.21)

(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

~~1<sup>st</sup>~~ ~~2<sup>nd</sup>~~ Revised Sheet 485-1  
 Cancels ~~Original-1<sup>st</sup>~~ Revised Sheet No. 485-1

P.U.C.O. NO. 20

## gridSMART PHASE 2 RIDER

Effective with the first billing cycle of ~~June-September~~ 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>(\$0.63)</del> <u>(\$0.52)</u>
Non-Residential	<del>(\$2.13)</del> <u>(\$1.21)</u>

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

Issued: ~~April-July~~ 28, 2017

Issued by  
 Julia Sloat, President  
 AEP Ohio

Effective: Cycle 1 ~~June-September~~ 2017

OHIO POWER COMPANY

~~Original~~ <sup>1<sup>st</sup></sup> ~~Revised~~ <sup>2<sup>nd</sup></sup> Revised Sheet 485-1D  
Cancels ~~Original~~ <sup>1<sup>st</sup></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 ~~June~~ September 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 ~~(\$0.63)~~ (\$0.52)

Non-Residential ~~(\$2.13)~~ (\$1.21)

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

Issued: ~~April~~ July 28, 2017

Effective: Cycle 1 ~~June~~ September 2017

Issued by  
Julia Sloat, President  
AEP Ohio



## Calculation of Rider Revenue Collections from 1st Quarter Filing

Case No. 17-1156-EL-RDR 1st Quarter True-up		Monthly Rate	Customer Bills	Actual June 2017 Rider Revenue	Annual Revenue Requirement	Over / (Under) Collection
Attachment 1	Res Customers	\$ 0.14	1,280,643	\$179,290.03	\$2,085,660.01	(\$1,906,369.98)
Attachment 1	Non-Res Customers	\$ 1.12	188,509	\$211,130.58	\$2,549,140.01	(\$2,338,009.43)
Total				\$390,420.62	\$4,634,800.02	(\$4,244,379.40)
Attachment 2	Res Customers	\$ (0.77)	1,280,643	(\$986,095.17)	(\$11,851,905.83)	\$10,865,810.66
Attachment 2	Non-Res Customers	\$ (3.25)	188,509	(\$612,655.71)	(\$7,388,952.93)	\$6,776,297.22
Total				(\$1,598,750.89)	(\$19,240,858.76)	\$17,642,107.87
Total	Res Customers	\$ (0.63)	1,280,643	(\$806,805.14)	(\$9,766,245.82)	\$8,959,440.68
Total	Non-Res Customers	\$ (2.13)	188,509	(\$401,525.13)	(\$4,839,812.92)	\$4,438,287.79
Total				(\$1,208,330.27)	(\$14,606,058.74)	\$13,397,728.47

gridSMART Phase 2 NBV  
Depreciation Tables

Asset Value  
Year Life  
Monthly Rate

		AMI Meters - In Service									
		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	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	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	\$154.38	-	-	-	-
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

		Distribution Automation - In Service									
Asset Value											
Year Life		30									
Monthly Rate		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)	Cummulative 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	-	-	-	-	-		-	-	-	-
	July	-	-	-	-	-		-	-	-	-
	August	-	-	-	-	-		-	-	-	-
	September	-	-	-	-	-		-	-	-	-
	October	-	-	-	-	-		-	-	-	-
	November	-	-	-	-	-		-	-	-	-
	December	-	-	-	-	-	\$81,557.35	-	-	-	-
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.

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

**Commission of Ohio Docketing Information System on**

**7/28/2017 2:44:40 PM**

**in**

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

Summary: Application of Ohio Power Company to update its gridSMART Phase 2 Rider Rates electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company