



Legal Department

American Electric Power  
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Columbus, Ohio 43215-2373  
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April 27, 2023

Tanowa Troupe  
Docketing Division  
Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus Ohio 43215-3793

**Steven T. Nourse**  
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Re: *In the Matter the Generation Energy and  
Generation Capacity riders for Ohio Power Company,*  
Case No. 23-482-EL-RDR

Dear Ms. Troupe:

On February 25, 2015, the Commission Issued an Opinion and Order adopting certain portions of AEP Ohio's Electric Security Plan in Case Nos. 13-2385-EL-SSO, et.al (Opinion and Order). Among other things, the Opinion and Order approved the establishment of the Generation Energy (GENE) and Generation Capacity Riders (GENC). The Company filed its revised compliance tariffs on May 18, 2015 and rates for the GENE and GENC became effective on June 1, 2015 for the delivery period of June 2015 through May 2016.

Under the Opinion and Order, the Commission adopted the Company's request to update the GENE and GENC annually to reflect the results of competitive bid auction for the delivery year. Any over or under recoveries related to these riders are reconciled through the Auction cost recovery rider (ACRR).

On March 2, 2016 the Commission in its Opinion and Order in Case No. 16-247-EL-UNC found that percentage of income payment plan (PIPP) load will be separated from future competitive requests for proposal (RFP) auctions and auctioned separately in PIPP only RFP auctions for 12 month periods.

On April 25, 2018 the Commission approved the Stipulation in Case No. 16-1852-EL-SSO. The Stipulation adopted the change to remove the Public Utilities Commission of Ohio and Ohio Consumer Counsel assessment fees from the gross up factor used to calculate riders GENE and GENC. This filing reflects that change.

Accordingly, the Company submits its Annual GENE and GENC update for the delivery period of June 2023 through May 2024. The results of the separate PIPP

auction mentioned above are included in this filing. The Company requests that the new rates become effective June 1, 2023.

Thank you for your attention to this matter.

Respectfully Submitted,

*/s/ Steven T. Nourse*

Calculation of Blended Competitive Bid Price

		<u>Non-PIPP Load</u>		
Delivery Period:		June 2023 - May 2024		
<u>Line</u>	<u>Procurement Date</u>	<u>No. of Tranches</u>	<u>Delivery Period</u>	<u>Clearing Price</u>
1	Nov-22	45	June 2023 - May 2024	\$ 119.98 /MWh SSO Only
2	Mar-23	55	June 2023 - May 2024	\$ 88.55 /MWh SSO Only
3	Total	100		
4	Blended SSO Competitive Bid Price			\$ 102.69 /MWh

		<u>PIPP Load - PIPP Auction</u>		
Delivery Period:		June 2023 - May 2024		
<u>Line</u>	<u>Procurement Date</u>	<u>No. of Tranches</u>	<u>Delivery Period</u>	<u>Clearing Price</u>
5		100	June 2023 - May 2024	\$ /MWh
6	Total	100		
7	PIPP Competitive Bid Price			\$ /MWh

## Calculation of Capacity Revenue Requirement in \$/MWh

<u>Line</u>	<u>Description</u>	<u>June 2023 - May 2024</u>			<u>Total</u>
		<u>Secondary</u>	<u>Primary</u>	<u>Sub/Tran</u>	
1	SSO Load - 5 CP at Meter	2,564	191	753	3,509 MW
2	Transmission and Distribution Losses	1.0897	1.0531	1.0341	
3	5 CP at Generator (1) x (2)	2,794	201	779	3,775 MW
4	Days in Period				365
5	MW-days (3) x (4)				1,377,791
6	Final Zonal Capacity Price*				\$42.16 /MW-day
7	Capacity Revenue Requirement (5) x (6)				\$ 58,084,807

<u>Line</u>	<u>Description</u>	<u>Secondary</u>	<u>Primary</u>	<u>Sub/Tran</u>	<u>Total</u>
8	Energy at Meter (MWh)	11,734,330	1,343,793	7,155,917	20,234,040
9	Transmission and Distribution Losses **	1.0570	1.0215	1.0031	
10	Energy for PJM Settlement (MWh) (8) x (9)	12,403,293	1,372,694	7,177,935	20,953,922
11	Capacity Revenue Requirement (\$/MWh) (7) / (10)				\$ 2.77

* Final Zonal Capacity Price consists of:	RPM Auction Clearing Price	\$34.18 /MW-day
	Final Zonal Scaling Factor	1.12850
	Forecast Pool Requirement	1.093

\*\* Loss Factors reduced by 3% for marginal loss deration

**Calculation of Generation Capacity Rider Rates**  
**June 2023 - May 2024**

<u>Line</u>	<u>Description</u>	<u>Total</u>	<u>Residential</u>	<u>GS Non Demand Secondary</u>	<u>GS Secondary</u>	<u>GS Primary</u>	<u>GS Sub/Tran</u>	<u>Lighting</u>
1	SSO Load - 5 CP at Meter	3,509	2,057	71	437	191	753	-
2	Transmission and Distribution Losses		1.0897	1.0897	1.0897	1.0531	1.0341	1.0897
3	5 CP at Generator (1) x (2)	3,775	2,241	77	476	201	779	-
4	Capacity Revenue Requirement on (3)	\$ 58,084,807	34,485,253	1,191,792	7,321,828	3,097,786	11,988,148	-
5	Energy at the Meter (MWh)	20,234,040	8,909,264	361,269	2,373,551	1,343,793	7,155,917	90,247
6	Capacity Rate (\$/MWh) (4) / (5)		\$ 3.87	\$ 3.30	\$ 3.08	\$ 2.31	\$ 1.68	\$ -
7	Tax Gross-up*		1.00261	1.00261	1.00261	1.00261	1.00261	1.00261
8	Rider GENC (\$/MWh) (6) x (7)		\$ 3.88	\$ 3.31	\$ 3.09	\$ 2.31	\$ 1.68	\$ -
9	Generation Capacity Rider Rate (¢/kWh)		0.38800	0.33100	0.30900	0.23100	0.16800	0.00000

\* Tax Gross-up includes: CAT Tax

	<u>Calculation for PIPP Auction</u>	
10	Energy for PJM Settlement (MWh)	
11	Capacity Revenue Requirement (\$/MWh) (4) / (10)	\$

## Generation Capacity Rider Design for Time-of-Day Rates

## CSP Rate Zone - RLM

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
Winter Season							
First 750 kWh per Month	277,398	\$ 0.024344	\$ 6,753	\$ 0.003880	\$ 1,076	\$ 0.0053821	\$ 1,493
Next 150 kWh per kW Over 5 kW per Month	1,090,206	\$ 0.013174	\$ 14,363	\$ 0.003880	\$ 4,230	\$ 0.0029126	\$ 3,175
All Additional kWh per Month	1,381,854	\$ 0.015407	\$ 21,291	\$ 0.003880	\$ 5,362	\$ 0.0034063	\$ 4,707
Summer Season							
First 750 kWh per Month	126,228	\$ 0.024344	\$ 3,073	\$ 0.003880	\$ 490	\$ 0.0053821	\$ 679
Next 150 kWh per kW Over 5 kW per Month	454,573	\$ 0.023126	\$ 10,512	\$ 0.003880	\$ 1,764	\$ 0.0051126	\$ 2,324
All Additional kWh per Month	600,445	\$ 0.021638	\$ 12,992	\$ 0.003880	\$ 2,330	\$ 0.0047838	\$ 2,872
Total			\$ 68,984		\$ 15,251		\$ 15,251

## CSP Rate Zone - RS-ES / RS-TOD

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	30,565	\$ 0.030371	\$ 928	\$ 0.003880	\$ 119	\$ 0.0067145	\$ 205
Off-Peak kWh	54,955	\$ 0.010419	\$ 573	\$ 0.003880	\$ 213	\$ 0.0023035	\$ 127
Total			\$ 1,501		\$ 332		\$ 332

## CSP Rate Zone - GS-2-LMTOD / GS-2-TOD

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				General Service Non Demand Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	1,973,797	\$ 0.038071	\$ 75,144	\$ 0.003310	\$ 6,533	\$ 0.0099068	\$ 19,554
Off-Peak kWh	3,974,408	\$ 0.000130	\$ 517	\$ 0.003310	\$ 13,155	\$ 0.0000339	\$ 135
Total			\$ 75,661		\$ 19,689		\$ 19,689

## CSP Rate Zone - RS-TOU / GS-TOU

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2020 Generation Capacity Rider Rates	<u>Billing</u>	Rider			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
RS TOU	1,316	\$ 0.143455	\$ 189	\$ 0.003880	\$ 5	\$ 0.0324142	\$ 43
GS-TOU	680	\$ 0.115894	\$ 79	\$ 0.003310	\$ 2	\$ 0.0277570	\$ 19

## Generation Capacity Rider Design for Time-of-Day Rates

## OP Rate Zone - RS-ES / RS-TOD

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	2,046,613	\$ 0.036343	\$ 74,380	\$ 0.003880	\$ 7,941	\$ 0.0080348	\$ 16,444
Off-Peak kWh	5,102,322	\$ 0.010012	\$ 51,084	\$ 0.003880	\$ 19,797	\$ 0.0022135	\$ 11,294
Total			\$ 125,464		\$ 27,738		\$ 27,738

## OP Rate Zone - GS-1-ES

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				General Service Non Demand Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	95,196	\$ 0.026019	\$ 2,477	\$ 0.003310	\$ 315	\$ 0.0067706	\$ 645
Off-Peak kWh	179,823	\$ 0.005680	\$ 1,021	\$ 0.003310	\$ 595	\$ 0.0014780	\$ 266
Total			\$ 3,498		\$ 910		\$ 910

## OP Rate Zone - GS-2-ES / GS-TOD

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	<u>Billing</u>	June 2023 - May 2024			
				General Service Non Demand Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	18,875,479	\$ 0.020841	\$ 393,380	\$ 0.003310	\$ 62,478	\$ 0.0054232	\$ 102,365
Off-Peak kWh	27,663,099	\$ 0.007179	\$ 198,591	\$ 0.003310	\$ 91,565	\$ 0.0018681	\$ 51,677
Total			\$ 591,971		\$ 154,043		\$ 154,043

## OP Rate Zone - RS-TOU / GS-TOU

<u>Description</u>	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2020 Generation Capacity Rider Rates	<u>Billing</u>	Rider			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
RS TOU	1,316	\$ 14.345520	\$ 18,880	\$ 0.003880	\$ 5	\$ 0.0324142	\$ 43
GS-TOU	680	\$ 11.589410	\$ 7,883	\$ 0.003310	\$ 2	\$ 0.0277570	\$ 19

### Calculation of Generation Energy Rider Rates

				2023/2024 - SSO		2023/2024 - PIPP	
				SSO		PIPP	
Blended Competitive Bid Price				\$ 102.69 /MWh		\$ [REDACTED] /MWh	
Capacity Revenue Requirement				\$ 2.77 /MWh		\$ [REDACTED] /MWh	
Residual Energy Price				\$ 99.92 /MWh		\$ [REDACTED] /MWh	
Tax Gross-up*				1.00261			
Rate <u>Schedule</u>	Season	Factors		RIDER GENE***	Generation Energy Rider Rate (¢/kWh)	RIDER GENE***	Generation Energy Rider Rate (¢/kWh)
		Loss**	Season				
Residential	Summer	1.0570	1.00	\$ 105.89	10.589		
	Winter	1.0570	1.00	\$ 105.89	10.589		
PIPP Residential	Summer	1.0570	1.00			\$ [REDACTED]	[REDACTED]
	Winter	1.0570	1.00			\$ [REDACTED]	[REDACTED]
GS Non Demand Secondary	Summer	1.0570	1.00	\$ 105.89	10.589		
	Winter	1.0570	1.00	\$ 105.89	10.589		
GS Secondary	Summer	1.0570	1.00	\$ 105.89	10.589		
	Winter	1.0570	1.00	\$ 105.89	10.589		
GS Primary	Summer	1.0215	1.00	\$ 102.34	10.234		
	Winter	1.0215	1.00	\$ 102.34	10.234		
GS Sub/Tran	Summer	1.0031	1.00	\$ 100.49	10.049		
	Winter	1.0031	1.00	\$ 100.49	10.049		
Lighting	Summer	1.0570	1.00	\$ 105.89	10.589		
	Winter	1.0570	1.00	\$ 105.89	10.589		

\* Tax Gross-up includes: Commercial Activities Tax

\*\* Loss Factors reduced by 3% for marginal loss deration

\*\*\* Residual Energy Price x Tax Gross-up x Loss Factor x Seasonal Factor

#### Annualized Factors for Typical Bills (4 Summer Months / 8 Winter Months)

Residential	Annual	1.05890
GS Non Demand Secondary	Annual	1.05890
GS Secondary	Annual	1.05890
GS Primary	Annual	1.02340
GS Sub/Tran	Annual	1.00490
Lighting	Annual	1.05890



## ATTACHMENT 1

P.U.C.O. NO. 21

## GENERATION ENERGY RIDER

Effective June 1, 202~~23~~, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Generation Energy charge as follows:

Schedule	Summer (Jun-Sep) ¢/KWH	Winter (Oct-May) ¢/KWH
<b>Residential</b> RS, RSDM, RS-TOD, RS-TOU	<del>6.04100</del> 10.58900	<del>6.04100</del> 10.58900
<b>PIPP Residential</b> RS, RSDM, RS-TOD, RS-TOU	<del>14.78600</del> [REDACTED]	<del>14.78600</del> [REDACTED]
<b>Non Demand Metered</b> GS-1, GS Recreational Lighting, GS-TOD, GS-TOU, EHS, SS	<del>6.04100</del> 10.58900	<del>6.04100</del> 10.58900
<b>Demand Metered Secondary</b> GS, EHG	<del>6.04100</del> 10.58900	<del>6.04100</del> 10.58900
<b>Demand Metered Primary</b> GS	<del>5.83800</del> 10.23400	<del>5.83800</del> 10.23400
<b>Demand Metered Subtransmission/Transmission</b> GS	<del>5.73200</del> 10.04900	<del>5.73200</del> 10.04900
<b>Lighting</b> AL, SL	<del>6.04100</del> 10.58900	<del>6.04100</del> 10.58900

Filed pursuant to Order dated May ~~18XX~~, 202~~23~~ in Case No. 2~~23~~-0486XXXX-EL-RDR

Issued: May ~~19XX~~, 202~~23~~

Effective: June 1, 202~~23~~

Issued by  
 Marc Reitter, President  
 AEP Ohio

## P.U.C.O. NO. 21

## GENERATION CAPACITY RIDER

Effective June 1, 202~~23~~, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Generation Capacity charge as follows:

Columbus Southern Power Rate Zone

Rate		¢/kWh or \$/Month
RS		<del>0.581000.38800</del>
RS-TOU <sup>1</sup>	On-Peak Hours Off-Peak Hours	<del>4.854533.24142</del> <del>0.00000</del>
RLM	Winter Rate First 750 KWH Next 150 KWH All Other KWH Summer Rate First 750 KWH Next 150 KWH All Other KWH	<del>0.805920.53821</del> <del>0.436140.29126</del> <del>0.510060.34063</del> <del>0.805920.53821</del> <del>0.765580.51126</del> <del>0.716340.47838</del>
RS-ES, RS-TOD	On Peak KWH Off-Peak KWH	<del>1.005440.67145</del> <del>0.344940.23035</del>
GS-1		<del>0.491000.33100</del>
GS-2-TOD, GS-2 LMTOD	On-Peak Hours Off-Peak Hours	<del>1.469560.99068</del> <del>0.005020.00339</del>
GS-TOU <sup>1</sup>	On-Peak Hours Off-Peak Hours	<del>4.117972.77570</del> <del>0.00000</del>
Demand Metered Secondary GS		<del>0.471000.30900</del>
Demand Metered Primary GS		<del>0.373000.23100</del>
Demand Metered Transmission GS		<del>0.278000.16800</del>

<sup>1</sup> Applicable only to customers with AMI meters. On-Peak hours applies to all weekdays, except the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. November through April 6AM to 9AM and May through October 2PM through 6PM.

Seasonal Periods

The winter period shall be the billing months of October through May and the summer period shall be the billing months of June through September.

Filed pursuant to Order dated May ~~18XX~~, 202~~23~~ in Case No. ~~223-0486XXXX~~-EL-RDR

Issued: May ~~19XX~~, 202~~23~~

Issued by  
 Marc Reitter, President  
 AEP Ohio

Effective: June 1, 202~~23~~

## P.U.C.O. NO. 21

## GENERATION CAPACITY RIDER

Effective June 1, 2022, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Generation Capacity charge as follows:

Ohio Power Rate Zone

Rate		¢/kWh or \$/Month
RS		<del>0.581000.38800</del>
RS – TOU <sup>1</sup>	On-Peak Hours Off-Peak Hours	<del>4.854533.24142</del> 0.00000
RS-ES, RS-TOD	On Peak KWH Off-Peak KWH	<del>1.203450.80348</del> <del>0.331450.22135</del>
GS-1, EHS, SS, GS Recreational Lighting		<del>0.491000.33100</del>
GS – TOU <sup>1</sup>	On-Peak Hours Off-Peak Hours	<del>4.117972.77570</del> 0.00000
GS-1 ES	On-Peak Hours Off-Peak Hours	<del>1.004340.67706</del> <del>0.219240.14780</del>
GS-TOD, GS-2ES	On-Peak Hours Off-Peak Hours	<del>0.804470.54232</del> <del>0.277110.18681</del>
Demand Metered Secondary GSEHG		<del>0.471000.30900</del>
Demand Metered Primary GS		<del>0.373000.23100</del>
Demand Metered Transmission GS		<del>0.278000.16800</del>

<sup>1</sup> Applicable only to customers with AMI meters. On-Peak hours applies to all weekdays, except the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. November through April 6AM to 9AM and May through October 2PM through 6PM.

Filed pursuant to Order dated May ~~18XX~~, 2022~~3~~ in Case No. ~~223-0486XXXX~~-EL-RDR

Issued: May ~~19XX~~, 2022~~3~~

Effective: June 1, 2022~~3~~

Issued by  
 Marc Reitter, President  
 AEP Ohio

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

**Case No(s). 23-0482-EL-RDR**

Summary: Correspondence Annual Update Generation Energy and Generation Capacity riders. electronically filed by Mr. Steven T. Nourse on behalf of Ohio Power Company.