



Legal Department

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

April 27, 2020

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

*Re: In the Matter the Generation Energy and Generation Capacity riders
for Ohio Power Company, Case No. 20-943-EL-RDR.*

Steven T. Nourse
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Dear Ms. McNeal:

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. 16-0247-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 Commission and Ohio Consumer Counsel (OCC) 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 2020 through May 2021. 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, 2020.

Respectfully Submitted,

/s/ Steven T. Nourse

Calculation of Blended Competitive Bid Price

Non-PIPP Load

Delivery Period: June 2020 - May 2021

<u>Line</u>	<u>Procurement Date</u>	<u>No. of Tranches</u>	<u>Delivery Period</u>	<u>Clearing Price</u>	
1	Nov-17	16	June 2018 - May 2021	\$ 47.27 /MWh	SSO Only
2	Mar-18	16	June 2018 - May 2021	\$ 46.53 /MWh	SSO Only
3	Nov-19	17	June 2020 - May 2021	\$ 40.18 /MWh	SSO Only
4	Nov-19	17	June 2020 - May 2022	\$ 42.83 /MWh	SSO Only
5	Mar-20	17	June 2020 - May 2021	\$ 36.74 /MWh	SSO Only
6	Mar-20	17	June 2020 - May 2022	\$ 40.00 /MWh	SSO Only
7	Total	100			
8	Blended SSO Competitive Bid Price			\$ 42.17 /MWh	

PIPP Load - PIPP Auction

Delivery Period: June 2020 - May 2021

<u>Line</u>	<u>Procurement Date</u>	<u>No. of Tranches</u>	<u>Delivery Period</u>	<u>Clearing Price</u>	
1	Apr-20	100	June 2020 - May 2022	\$ [REDACTED] /MWh	
2	Total	100			
3	PIPP Competitive Bid Price			\$ [REDACTED] /MWh	

Schedule 2

Calculation of Capacity Revenue Requirement in \$/MWh

Line	Description	June 2020 - May 2021			
		Secondary	Primary	Sub/Tran	Total
1	SSO Load - 5 CP at Meter	2,379	37	15	2,432 MW
2	Transmission and Distribution Losses	1.0932	1.0552	1.0341	
3	5 CP at Generator (1) x (2)	2,601	39	16	2,656 MW
4	Days in Period				365
5	MW-days (3) x (4)				969,538
6	Final Zonal Capacity Price*				\$90.12 /MW-day
7	Capacity Revenue Requirement (5) x (6)				\$ 87,374,341

Line	Description	Secondary	Primary	Sub/Tran	Total
8	Energy at Meter (MWh)	11,135,677	209,313	168,127	11,513,116
9	Transmission and Distribution Losses **	1.0604	1.0235	1.0031	
10	Energy for PJM Settlement (MWh) (8) x (9)	11,808,316	214,241	168,644	12,191,201
11	Capacity Revenue Requirement (\$/MWh) (7) / (10)				\$ 7.17

* Final Zonal Capacity Price consists of:	RPM Auction Clearing Price	\$77.31 /MW-day
	Final Zonal Scaling Factor	1.07121
	Forecast Pool Requirement	1.0882

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

Calculation of Generation Capacity Rider Rates

<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	2,432	2,049	60	271	37	15	-
2	Transmission and Distribution Losses		1.0932	1.0932	1.0932	1.0552	1.0341	1.0932
3	5 CP at Generator (1) x (2)	2,656	2,240	65	296	39	16	-
4	2020/2021 Capacity Revenue Requirement on (3)	\$ 87,374,341	73,684,546	2,145,074	9,731,752	1,293,596	519,373	-
5	Energy at the Meter (MWh)	11,513,116	9,176,602	322,098	1,551,232	209,313	168,127	85,745
6	2020/2021 Capacity Rate (\$/MWh) (4) / (5)	\$	8.03	\$ 6.66	\$ 6.27	\$ 6.18	\$ 3.09	\$ -
7	Tax Gross-up*		1.00261	1.00261	1.00261	1.00261	1.00261	1.00261
8	2020/2021 Rider GENC (\$/MWh) (6) x (7)	\$	8.05	\$ 6.68	\$ 6.29	\$ 6.20	\$ 3.10	\$ -
9	Generation Capacity Rider Rate (¢/kWh)		0.80500	0.66800	0.62900	0.62000	0.31000	0.00000

* Tax Gross-up includes: CAT Tax

Calculation for PIPP Auction

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

Description	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	Billing	June 2020 - May 2021			
				Residential Service Generation Capacity Rider	Billing	Generation Capacity Rider	Billing
Winter Season							
First 750 kWh per Month	277,398	\$ 0.024344	\$ 6,753	\$ 0.008050	\$ 2,233	\$ 0.0111664	\$ 3,098
Next 150 kWh per kW Over 5 kW per Month	1,090,206	\$ 0.013174	\$ 14,363	\$ 0.008050	\$ 8,776	\$ 0.0060429	\$ 6,588
All Additional kWh per Month	1,381,854	\$ 0.015407	\$ 21,291	\$ 0.008050	\$ 11,124	\$ 0.0070672	\$ 9,766
Summer Season							
First 750 kWh per Month	126,228	\$ 0.024344	\$ 3,073	\$ 0.008050	\$ 1,016	\$ 0.0111664	\$ 1,410
Next 150 kWh per kW Over 5 kW per Month	454,573	\$ 0.023126	\$ 10,512	\$ 0.008050	\$ 3,659	\$ 0.0106074	\$ 4,822
All Additional kWh per Month	600,445	\$ 0.021638	\$ 12,992	\$ 0.008050	\$ 4,834	\$ 0.0099252	\$ 5,960
Total			\$ 68,984		\$ 31,642		\$ 31,642

CSP Rate Zone - RS-ES / RS-TOD

Description	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	Billing	June 2020 - May 2021			
				Residential Service Generation Capacity Rider	Billing	Generation Capacity Rider	Billing
On-Peak kWh	30,565	\$ 0.030371	\$ 928	\$ 0.008050	\$ 246	\$ 0.0139308	\$ 426
Off-Peak kWh	54,955	\$ 0.010419	\$ 573	\$ 0.008050	\$ 442	\$ 0.0047792	\$ 263
Total			\$ 1,501		\$ 688		\$ 688

CSP Rate Zone - Experimental RS-TOD2

Description	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	Billing	June 2020 - May 2021			
				Residential Service Generation Capacity Rider	Billing	Generation Capacity Rider	Billing
High Cost Hours	1,589,576	\$ 0.175869	\$ 279,557	\$ 0.008050	\$ 12,796	\$ 0.0806691	\$ 128,230
Low Cost Hours	18,387,409	\$ 0.003864	\$ 71,040	\$ 0.008050	\$ 148,019	\$ 0.0017721	\$ 32,584
Total			\$ 350,597		\$ 160,815		\$ 160,814

CSP Rate Zone - RS-CPP

Description	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	Billing	June 2020 - May 2021			
				Residential Service Generation Capacity Rider	Billing	Generation Capacity Rider	Billing
Winter Season							
First 800 kWh	6,400	\$ 0.016017	\$ 103	\$ 0.008050	\$ 52	\$ 0.0073468	\$ 47
Over 800 kWh	2,172	\$ -	\$ -	\$ 0.008050	\$ 17	\$ -	\$ -
Critical Peak Hours	28	\$ 0.387317	\$ 11	\$ 0.008050	\$ 0	\$ 0.1776580	\$ 5
Summer Season							
Low Cost Hours	2,289	\$ 0.003873	\$ 9	\$ 0.008050	\$ 18	\$ 0.0017766	\$ 4
Medium Cost Hours	1,082	\$ 0.012144	\$ 13	\$ 0.008050	\$ 9	\$ 0.0055703	\$ 6
High Cost Hours	892	\$ 0.024824	\$ 22	\$ 0.008050	\$ 7	\$ 0.0113865	\$ 10
Critical Peak Hours	184	\$ 0.387317	\$ 71	\$ 0.008050	\$ 1	\$ 0.1776580	\$ 33
Total			\$ 229		\$ 105		\$ 105

CSP Rate Zone - RS-RTP

Description	Generation Capacity Rider Rate Design Usage (kWh)	Jan-May 2015 Generation Capacity Rider Rates	Billing	June 2020 - May 2021			
				Residential Service Generation Capacity Rider	Billing	Generation Capacity Rider	Billing
Fixed Energy Charge	14,595	\$ 21.35	\$ 256	\$ 0.008050	\$ 117	\$ 9.79	\$ 117
Total			\$ 256		\$ 117		\$ 117

Generation Capacity Rider Design for Time-of-Day Rates

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 2020 - May 2021			
				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	\$ 0.006680	\$ 13,185	\$ 0.0199932	\$ 39,463
Off-Peak kWh	3,974,408	\$ 0.000130	\$ 517	\$ 0.006680	\$ 26,549	\$ 0.0000683	\$ 271
Total			\$ 75,661		\$ 39,734		\$ 39,734

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 2020 - May 2021			
				Residential Service Generation Capacity Rider	<u>Billing</u>	Generation Capacity Rider	<u>Billing</u>
On-Peak kWh	2,046,613	\$ 0.036343	\$ 74,380	\$ 0.008050	\$ 16,475	\$ 0.0166701	\$ 34,117
Off-Peak kWh	5,102,322	\$ 0.010012	\$ 51,084	\$ 0.008050	\$ 41,074	\$ 0.0045924	\$ 23,432
Total			\$ 125,464		\$ 57,549		\$ 57,549

OP Rate Zone - RDMS

OP Rate Zone - RDMS				June 2020 - May 2021				
(No Data, Use RS-ES / RS-TOD Scaling)	Generation Capacity Rider Rate Design Usage	Jan-May 2015 Generation Capacity Rider		Residential Service Generation Capacity			Generation Capacity	
	(kWh)	Rider		Rider			Rider	
		Rates	Billing		Billing			Billing
	Description							
Winter Season								
kWh > 400 times billing demand	-	\$ 0.020158	\$ -	\$ 0.008050	\$ -	\$ 0.0092460	\$ -	
First 500 on-peak kWh	-	\$ 0.025186	\$ -	\$ 0.008050	\$ -	\$ 0.0115525	\$ -	
Over 500 on-peak kWh	-	\$ 0.018756	\$ -	\$ 0.008050	\$ -	\$ 0.0086034	\$ -	
All Additional kWh per Month	-	\$ 0.005710	\$ -	\$ 0.008050	\$ -	\$ 0.0026190	\$ -	
Total			\$ -		\$ -		\$ -	

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 2020 - May 2021			
				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	\$ 0.006680	\$ 636	\$ 0.0136639	\$ 1,301
Off-Peak kWh	179,823	\$ 0.005680	\$ 1,021	\$ 0.006680	\$ 1,201	\$ 0.0029828	\$ 536
Total			\$ 3,498		\$ 1,837		\$ 1,837

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 2020 - May 2021			
				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	\$ 0.006680	\$ 126,088	\$ 0.0109447	\$ 206,586
Off-Peak kWh	27,663,099	\$ 0.007179	\$ 198,591	\$ 0.006680	\$ 184,790	\$ 0.0037701	\$ 104,293
Total			\$ 591,971		\$ 310,878		\$ 310,879

Calculation of Generation Energy Rider Rates

		2020/2021 SSO		2020/2021 PIPP	
		SSO		PIPP	
Blended Competitive Bid Price		\$ 42.17 /MWh		\$ [REDACTED] /MWh	
Capacity Revenue Requirement		\$ 7.17 /MWh		\$ [REDACTED] /MWh	
Residual Energy Price		\$ 35.00 /MWh		\$ [REDACTED] /MWh	
Tax Gross-up*		1.00261			
Rate Schedule	Season	Factors		RIDER Rider Rate (\$/kWh)	Generation Energy Rider Rate (\$/kWh)
		Loss**	Season		
Residential	Summer	1.0604	1.00	\$ 37.21	3.721
	Winter	1.0604	1.00	\$ 37.21	3.721
PIPP Residential	Summer	1.0604	1.00		\$ [REDACTED]
	Winter	1.0604	1.00		\$ [REDACTED]
GS Non Demand Secondary	Summer	1.0604	1.00	\$ 37.21	3.721
	Winter	1.0604	1.00	\$ 37.21	3.721
GS Secondary	Summer	1.0604	1.00	\$ 37.21	3.721
	Winter	1.0604	1.00	\$ 37.21	3.721
GS Primary	Summer	1.0235	1.00	\$ 35.92	3.592
	Winter	1.0235	1.00	\$ 35.92	3.592
GS Sub/Tran	Summer	1.0031	1.00	\$ 35.20	3.520
	Winter	1.0031	1.00	\$ 35.20	3.520
Lighting	Summer	1.0604	1.00	\$ 37.21	3.721
	Winter	1.0604	1.00	\$ 37.21	3.721

* 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	0.37210
GS Non Demand Secondary	Annual	0.37210
GS Secondary	Annual	0.37210
GS Primary	Annual	0.35920
GS Sub/Tran	Annual	0.35200
Lighting	Annual	0.37210

ATTACHMENT 1

P.U.C.O. NO. 20

GENERATION ENERGY RIDER

Effective June 1, 20~~19~~20, 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)	Winter (Oct-May)
	¢/KWH	¢/KWH
Residential RS, RR, RR-1, RS-ES, RS-TOD, RLM, RS-TOD2, CPP, RTP, and RDMS	4.026003.72100	4.026003.72100
PIPP Residential RS, RR, RR-1, RS-ES, RS-TOD, RLM, , , , and RDMS	3.727003.12800	3.727003.12800
Non Demand Metered GS-1, GS-1 TOD GS-2 Recreational Lighting, GS-TOD, GS-2-TOD, and GS-2-ES GS-3-ES EHS SS	4.026003.72100	4.026003.72100
Demand Metered Secondary GS-2 GS-3 EHG	4.026003.72100	4.026003.72100
Demand Metered Primary GS-2 GS-3 GS-4	3.886003.59200	3.886003.59200
Demand Metered Subtransmission/Transmission GS-2 GS-3 GS-4	3.809003.52000	3.809003.52000
Lighting AL SL	4.026003.72100	4.026003.72100

Filed pursuant to Order dated May ~~29~~20, 20~~19~~20 in Case No. ~~1920-1030~~-EL-RDR.

Issued: ~~May~~April 3027, 20~~19~~20

Issued by
Rajagopalan Sundararajan, President
AEP Ohio

Effective: June 1, 20~~19~~20

P.U.C.O. NO. 20

GENERATION CAPACITY RIDER

Effective June 1, 2019~~20~~, 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		c/kWh or \$/Month
RR, RR-1		1.066000 0.80500
RLM	Winter Rate First 750 KWH Next 150 KWH All Other KWH Summer Rate First 750 KWH Next 150 KWH All Other KWH	1.478681 1.11664 0.800210 0.60429 0.935850 0.70672 1.478681 1.11664 1.404661 0.6074 1.314310 0.99252
RS-ES, RS-TOD	On Peak KWH Off-Peak KWH	1.844741 1.39308 0.632880 0.47792
RS-TOD2	Low Cost Hours High Cost Hours	0.234670 0.17721 10.682398 0.06691
Schedule CPP	Winter Rate First 800 KWH Over 800 KWH Critical Peak Hours Summer Rate Low Cost Hours Medium Cost Hours High Cost Hours Critical Peak Hours	0.972880 0.73468 0.00000 23.525891 7.76580 0.235260 0.17766 0.737630 0.55703 1.507831 1.13865 23.525891 7.76580
RS-RTP	Per Month	12.979 7.79
GS-1, GS-1 TOD		0.885000 0.66800
GS-2-TOD, GS-2 LMTOD	On-Peak Hours Off-Peak Hours	2.648801 0.99932 0.009050 0.00683
Demand Metered Secondary GS-2 GS-3		0.842000 0.62900
Demand Metered Primary GS-2 GS-3		0.852000 0.62000
Demand Metered Subtransmission/Transmission GS-4		0.483000 0.31000

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 29~~20~~, 2019~~20~~ in Case No. 19~~20~~-1030-EL-RDR.

Issued: ~~May~~April 30~~27~~, 2019~~20~~

Effective: June 1, 2019~~20~~

Issued by
Rajagopalan Sundararajan, President
AEP Ohio

P.U.C.O. NO. 20

GENERATION CAPACITY RIDER

Effective June 1, 2019~~20~~, 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		c/kWh or \$/Month
RS		1.066000 .80500
RDMS	KWH > 400 times billing demand	1.224380 .92460
	First 500 on-peak KWH	1.52984 1.15525
	All Over 500 on-peak KWH	1.139280 .86034
	All additional KWH	0.346820 .26190
RS-ES, RS-TOD	On Peak KWH Off-Peak KWH	2.207501 .66701 0.608130 .45924
GS-1, EHS, SS, GS-2 Recreational Lighting		0.885000 .66800
GS-1 ES	On-Peak Hours Off-Peak Hours	1.810271 .36639 0.395180 .29828
GS-TOD, GS-2-ES	On-Peak Hours Off-Peak Hours	1.450041 .09447 0.499480 .37701
Demand Metered Secondary GS-2 GS-3 EHG		0.842000 .62900
Demand Metered Primary GS-2 GS-3 GS-4		0.852000 .62000
Demand Metered Subtransmission/Transmission GS-2 GS-3 GS-4		0.483000 .31000

Filed pursuant to Order dated May 29~~20~~, 2019~~20~~ in Case No. 19~~20~~-1030-EL-RDR.

Issued: ~~May~~April 30~~27~~, 2019~~20~~

Effective: June 1, 2019~~20~~

Issued by
Rajagopalan Sundararajan, President
AEP Ohio

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 20-0943-EL-RDR

Summary: Application -Ohio Power Company submits its Annual GENE and GENC update for the delivery period of June 2020 through May 2021 electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company