

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

Line No.			Total	Allocator	Allocated Amount
1	GROSS REVENUE REQUIREMENT (page 3, line 29)				\$ 78,089,604
REVENUE CREDITS					
2	Account No. 454	Note A (page 4, line 34)	\$ 159,299	TP 1.00000	\$ 159,299
3	Account No. 456.1 (Net of Revenues from Grandfathered Transactions)	(page 4, line 35)	245,893	TP 0.97095	238,751
4	Revenues from Grandfathered Transactions	Note B	126,611	TP 0.97095	122,933
5	Revenues from service provided by the ISO at a discount		0	TP 0.97095	0
5a	Transmission Enhancement Credit		0	TP 0.97095	0
6	TOTAL REVENUE CREDITS (sum lines 2-5b)				\$ 520,983
6a	True-up Adjustment	Note C			\$ -
7	NET REVENUE REQUIREMENT	(line 1 minus line 6 plus line 6a)			<u>77,568,621</u>
DIVISOR					
8	1 CP	Note D			2,870,550
9	12 CP	Note E			2,267,327
10	Reserved				
11	Reserved				
12	Reserved				
13	Reserved				
14	Reserved				
15	Annual Cost (\$/kW/Yr) - 1 CP	(line 7 / line 8)	\$27.022		
16	Annual Cost (\$/kW/Yr) - 12 CP	(line 7 / line 9)	\$34.211		
17	Network Rate (\$/kW/Mo)	(line 15 / 12)	\$2.252		
17a	Point-To-Point Rate (\$/kW/Mo)	(line 16 / 12)	\$2.851		
			<u>On-Peak Rate</u>		<u>Off-Peak Rate</u>
18	Point-To-Point Rate (\$/kW/Wk)	(line 16 / 52; line 16 / 52)	\$0.658		
19	Point-To-Point Rate (\$/kW/Day)	(line 16 / 260; line 16 / 365)	\$0.132	Capped at weekly rate	\$0.094
20	Point-To-Point Rate (\$/MWh)	(line 16 / 4,160; line 16 / 8,760 * 1000)	\$8.224	Capped at weekly and daily rate	\$3.905

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

Line No.	(1) RATE BASE	(2) Form No. 1 Page, Line, Col.	(3) Company Total	(4) Allocator	(5) Transmission (Col. 3 times Col. 4)
<b>GROSS PLANT IN SERVICE</b>					
1	Production	204.46.g	\$ 3,207,486,012	NA	
2	Transmission	206.58.g	626,369,672	TP 0.97095	\$ 608,176,606
3	Distribution	206.75.g	233,297,229	NA	
4	General & Intangible	204.5.g & 206.90.g	132,341,079	W/S 0.16536	21,883,467
5	Common		0	CE 0.00000	0
6	TOTAL GROSS PLANT (sum lines 1-5)		\$ 4,199,493,992	GP= 15.003%	\$ 630,060,073
<b>ACCUMULATED DEPRECIATION</b>					
7	Production	219.20-24.c	\$ 1,143,130,683	NA	
8	Transmission	219.25.c	188,663,918	TP 0.97095	\$ 183,184,127
9	Distribution	219.26.c	70,706,091	NA	
10	General & Intangible	219.28.c	92,831,005	W/S 0.16536	15,350,217
11	Common		0	CE 0.00000	0
12	TOTAL ACCUM. DEPRECIATION (sum lines 7-11)		\$ 1,495,331,697		\$ 198,534,344
<b>NET PLANT IN SERVICE</b>					
13	Production	(line 1 - line 7)	\$ 2,064,355,329		
14	Transmission	(line 2 - line 8)	437,705,754		\$ 424,992,479
15	Distribution	(line 3 - line 9)	162,591,138		
16	General & Intangible	(line 4 - line 10)	39,510,074		6,533,250
17	Common	(line 5 - line 11)	0		0
18	TOTAL NET PLANT (sum lines 13-17)		\$ 2,704,162,295	NP= 15.958%	\$ 431,525,729
<b>ADJUSTMENTS TO RATE BASE</b>					
19	Account No. 281 (enter negative)	272.Total 281.k	\$ -	NA zero	\$ -
20	Account No. 282 (enter negative)	274.Total 282.k	0	NP 0.15958	0
21	Account No. 283 (enter negative)	276.Total 283.k	0	NP 0.15958	0
22	Account No. 190	234.Total 190.c	0	NP 0.15958	0
23	Account No. 255 (enter negative)	266.Total.h	0	NP 0.15958	0
24	TOTAL ADJUSTMENTS (sum lines 19- 23)		\$ -		\$ -
25	LAND HELD FOR FUTURE USE	214.Total.d, Note F	\$ -	1.00000	\$ -
<b>WORKING CAPITAL</b>					
26	CWC	calculated, Note G	\$ 8,910,312		4,475,765
27	Materials & Supplies	227.8.c	23,321,421	TE 0.91096	21,244,808
28	Prepayments (Account 165)	110.46.c, Note G	5,826,561	GP 0.15003	874,173
29	TOTAL WORKING CAPITAL (sum lines 26 - 28)		\$ 38,058,294		\$ 26,594,746
30	RATE BASE (sum lines 18, 24, 25, & 29)		\$ 2,742,220,589		\$ 458,120,475

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

Line No.	(1)	(2) Form No. 1 <u>Page, Line, Col.</u>	(3) <u>Company Total</u>	(4) <u>Allocator</u>	(5) <u>Transmission (Col. 3 times Col. 4)</u>
<b>O&amp;M</b>					
1	Transmission	321.100	\$ 54,982,645	TE 0.91096	\$ 50,086,817
2	Less Account 565	321.Acct 565	23,439,729	TE 0.91096	21,352,582
3	A&G	321.168	41,811,754	W/S 0.16536	6,913,848
4	Less FERC Annual Fees	N/A	0	W/S 0.16536	0
5	Less Non-safety Advertising	Note H	688,163	W/S 0.16536	113,792
5a	Less KPSC Regulatory Expenses	Note H	1,682,405		
5b	Plus Transmission Related Regulatory Exp	Note H	298,396	TE 0.91096	271,826
5c	Plus Prorated PJM Transition Expense	Note H	0		0
6	Common		0	CE 0.00000	0
7	Transmission Lease Payments		0	1.00000	0
8	TOTAL O&M (sum lines 1, 2a, 3, 5a, 6, 7 less lines 1a, 2, 4, 5)		\$ 71,282,498		\$ 35,806,117
<b>DEPRECIATION EXPENSE</b>					
9	Transmission	336.7.f	\$ 9,483,859	TP 0.97095	\$ 9,208,398
10	General and Intangible	336.9.f	6,562,411	W/S 0.16536	1,085,138
11	Common	336.10.f	0	CE 0.00000	0
12	TOTAL DEPRECIATION (Sum lines 9 - 11)		\$ 16,046,270		\$ 10,293,536
<b>TAXES OTHER THAN INCOME TAXES</b>					
<b>LABOR RELATED</b>					
13	Payroll	Note I	\$ -	W/S 0.16536	\$ -
14	Highway and vehicle	Note I	0	W/S 0.16536	0
<b>PLANT RELATED</b>					
16	Property	Note I	0	GP 0.15003	0
17	Gross Receipts		0	NA NA	0
18	Other		0	GP 0.15003	0
19	Payments in lieu of taxes		0	GP 0.15003	0
20	TOTAL OTHER TAXES (sum lines 13 - 19)		\$ -		\$ -
<b>INCOME TAXES</b>					
21	T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =	Note J	0.000000%		
22	CIT=(T/1-T) * (1-(WCLTD/R)) =		0.000000%		
23	1 / (1 - T) = (from line 21)		0.0000		
24	Amortized Investment Tax Credit	266.8.f (enter negative)	0		
25	Income Tax Calculation (line 22 * line 26)		\$ -	NA	\$ -
26	ITC adjustment (line 23 * line 24)		0	NP 0.15958	0
27	Total Income Taxes	(line 25 plus line 26)	\$ -		\$ -
28	RETURN [ Rate Base (page 2, line 30) * Rate of Return (page 4, line 29)]		\$ 191,485,661	NA	\$ 31,989,951
29	REVENUE REQUIREMENT (sum lines 8, 12, 20, 27, 28)		\$ 278,814,429		\$ 78,089,604

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.  
**SUPPORTING CALCULATIONS AND NOTES**

Line No.	<b>TRANSMISSION PLANT INCLUDED IN ISO RATES</b>				
1	Total transmission plant (page 2, line 2, column 3)				626,369,672
2	Less transmission plant excluded from ISO rates				0
3	Less transmission plant included in OATT Ancillary Services	See Supporting Exhibit, Page 5 of 8, Line 4, (Note K)			18,193,066
4	Transmission plant included in ISO Rates (line 1 less lines 2 & 3)				<u>608,176,606</u>
5	Percentage of transmission plant included in ISO Rates (line 4 divided by line 1)			TP=	0.97095
	<b>TRANSMISSION EXPENSES</b>				
6	Total transmission expenses (page 3, line 1, column 3)				54,982,645
7	Less transmission expenses included in OATT Ancillary Services	Note L			<u>3,397,525</u>
8	Included transmission expenses (line 6 less line 7)				51,585,120
9	Percentage of transmission expenses after adjustment (line 8 divided by line 6)				0.93821
10	Percentage of transmission plant included in ISO Rates (line 5)			TP	0.97095
11	Percentage of transmission expenses included in ISO Rates (line 9 times line 10)			TE=	0.91096
	<b>WAGES &amp; SALARY ALLOCATOR (W&amp;S)</b>				
		Form 1 Reference	\$	TP	Allocation
12	Production	354.18.b	36,644,307	0.00	0
13	Transmission	354.19.b	10,561,224	0.97	10,254,471
14	Distribution	354.20.b	919,394	0.00	0
15	Other	354.21,22,23,24.b	<u>13,889,367</u>	0.00	0
16	Total (sum lines 12-15)		62,014,292		10,254,471 = 0.16536
	<b>COMMON PLANT ALLOCATOR (CE)</b>				
			%		% Electric
17	Electric	200.3.c	1.00		(line 17 / line 20)
18	Gas	201.3.d	0.00		1.00000 *
19	Water	201.3.e	<u>0.00</u>		
20	Total (sum lines 17 - 19)		1.00		
	<b>RETURN (R)</b>				
21		Long Term Interest (117, sum of 58.c through 65.c)			<u>\$ 114,915,472</u>
22		Preferred Dividends (118.29c) (positive number)			0
	<b>Development of Cost of Capital:</b>				
23	Long Term Debt	(112.23c) See Supporting Exhibit, Page 7 of 8			\$2,468,515,698
24	Proprietary Capital	(112.15.c)			612,445,027
25	Less Account 216.1	(112.12.c) (enter negative)			<u>0</u>
26	Total Capital	(sum lines 23-25)			\$ 3,080,960,725
			\$	%	Cost
27	Long Term Debt (112.23c)	Note M	<u>2,468,515,698</u>	80.12%	4.655%
28	Proprietary Capital (112.15.c)	Note N	<u>612,445,027</u>	19.88%	16.365%
29	Total (sum lines 27-28)		3,080,960,725		R = 6.983%
30	Effective TIER	Note O			TIER = 1.50
	<b>REVENUE CREDITS</b>				
	ACCOUNT 447 (BUNDLED SALES FOR RESALE)	(310-311)			
31	a. Bundled Non-RQ Sales for Resale (311.x.k)				\$ -
32	b. Bundled Sales for Resale included in Divisor on page 1				<u>0</u>
33	Total of (a)-(b)				\$0
34	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	See Supporting Exhibit, Page 6 of 8, Line 3 (Note P)			\$ 159,299
35	ACCOUNT 456.1 (OTHER ELECTRIC REVENUES)	See Supporting Exhibit, Page 6 of 8, Line 17 (Note Q)			\$ 245,893

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

**General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.#)**

**References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)**

Note

Letter

- A The revenues credited on page 1 lines 2-5c shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, ancillary services, or facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Formulary Rate Template.
- B Revenue from AEP Grandfathered Agreement. See Rev Cred Support, Attachment H-24A, Supporting Exhibit, page 6 of 8, line 16
- C Calculated in accordance with the EKPC Formulary Rate Protocols in Attachment H-24B of this Tariff. See Appendix C
- D EKPC 1 CP is EKPC's highest Monthly Firm Transmission System Peak Load based on the source data as described in Note 1 of Attachment H-24A, Page 8 of 8, plus transmission service provided for others over the EKPC transmission system, plus wheel-out to EKPC load connected to AEP/KP, Duke Ky, and LGE/KU. See Attachment H-24A, Supporting Exhibit, Page 8 of 8
- E EKPC 12 CP is EKPC's Monthly Firm Transmission System Peak Load based on the source data as described in Note 1 of Attachment H-24A, Page 8 of 8, plus transmission service provided for others over the EKPC transmission system, plus wheel-out to EKPC load connected to AEP/KP, Duke Ky, and LGE/KU. See Attachment H-24A, Supporting Exhibit, Page 8 of 8
- F Identified in EKPC Form FF1 as being non-transmission related. See Attachment H-24A, Supporting Exhibit, Pg 2 of 8
- G Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at page 3 of 5, line 8, column 5. Prepayments are the electric related prepayments booked to Account No. 165 and reported on EKPC Form FF1, Ref Pg 110, line 46.
- H Line 5 - Remove non-safety related advertising included in Account 930.1. See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 3  
Line 5a - Remove Total Regulatory Commission Expenses - See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 4  
Line 5b - Add Back Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting - See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 6  
Line 5c - Add EKPC costs relating to PJM transition. See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 14
- I In accordance with RUS accounting standards, EKPC allocates all payroll and property taxes to the functional account. Labor- and plant-related taxes are already included in the appropriate transmission account.
- J As a member-owned non-profit RUS generation and transmission cooperative, EKPC is exempt from state and from federal income taxes under 501(c)(12) of Internal Revenue Code
- K Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- L Removes dollar amount of transmission expenses included in the OATT ancillary services rates, included in Account 561. See Attachment H-24A, Supporting Exhibit, Page 4 of 8.
- M Debt cost rate = long-term interest (line 21) / long term debt (line 27).
- N TIER Target =1.50
- O Effective TIER based on calculated amounts
- P Includes income related only to transmission facilities, such as pole attachments, rentals and special use.
- Q Net of revenue from retained leagacy transactions. See Attachment H-24A, Supporting Exhibit, page 6 of 8.

For the 12 months ended 12/31/2017

East Kentucky Power Cooperative, Inc.  
Transmission Formula Rate Revenue Requirement  
Utilizing EKPC 2017 Form FF1 Data (ver, FINAL - AUDITED)  
For Rates Effective January 1, 2017

**Schedule 1A Rate Calculation**

<u>Line No.</u>	<u>Source</u>	<u>Revenue Requirement</u>
<b>A. Schedule 1A Annual Revenue Requirements</b>		
1	Total Load Dispatch & Scheduling (Account 561)	Supporting Exh, page 4 of 8, line 11
	Less allocated amount for steam production [(Line 6c/Line 6b) * Line 1]	\$ 3,397,525
	Total Load Dispatch & Scheduling (Account 561) excluding Steam	\$ 56,700
		\$ 3,340,825
2	Revenue Credits for Schedule 1A	Note 1
		\$ -
3	Net Schedule 1A Revenue Requirement for Zone	\$ 3,340,825
4	Less: True Up Under/(Over) Recovery for 12 months ended 12/31/2016	Note 2
		\$ -
5	Schedule 1A Recovery Amount for 12 Months ended 12/31/2017	\$ 3,340,825
<b>B. Schedule 1A Rate Calculations</b>		
6	2017 Requirements Sales for Resale	Note 3
		12,536,264 MWh
6a	Plus Non-requirements Sales for Resale	Note 4
		12,838
6b	Subtotal	Note 5
		12,549,102
6c	Less Equivalent Steam	Note 6
		209,428
6d	Net MWh	12,339,674 MWh
7	Schedule 1A rate \$/MWh (Line 5 / Line 6)	(Line 3 / Line 6)
		\$0.2707 \$/MWh

**Notes:**

- (1) Revenue received pursuant to PJM Schedule 1A revenue allocation procedures for transmission service outside of EKPC's zone during the year used to calculate rates under Attachment H-24A
- (2) Amount from Attachment H-24A, Appendix C, line 13 for stated year.
- (3) Sourced from EKPC Form FF1, Ref Pg 401, adjusted for equivalent steam sold
- (4) FF1, Ref Page 401, Line 23
- (5) FF1, Ref Page 401, Line 24
- (6) FF1, Ref Page 401, Footnote

Rate Formula Template  
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.  
RTEP - Transmission Enhancement Charges

To be completed in conjunction with Attachment H-24A

Line No.	(1)	(2)	(3)	(4)
		Attachment H-24A Page, Line, Col.	Transmission	Allocator
	<b>TRANSMISSION PLANT</b>			
1	Gross Transmission Plant - Total	Attachment H-24A, p 2, line 2 col 5 (Note A)	608,176,606	
2	Net Transmission Plant - Total	Attachment H-24A, p 2, line 14 col 5 (Note B)	424,992,479	
	<b>O&amp;M EXPENSE</b>			
3	Total O&M Allocated to Transmission	Attachment H-24A, p 3, line 8 col 5	35,806,117	
4	Annual Allocation Factor for O&M	(line 3 divided by line 1 col 3)	5.89%	5.89%
	<b>GENERAL AND COMMON (G&amp;C) DEPRECIATION EXPENSE</b>			
5	Total G&C Depreciation Expense	Attachment H-24A, p 3, lines 10 & 11, col 5 (Note H)	1,085,138	
6	Annual Allocation Factor for G&C Depreciation Expense	(line 5 divided by line 1 col 3)	0.18%	0.18%
	<b>TAXES OTHER THAN INCOME TAXES</b>			
7	Total Other Taxes	Attachment H-24A, p 3, line 20 col 5	-	
8	Annual Allocation Factor for Other Taxes	(line 5 divided by line 1 col 3)	0.00%	0.00%
<b>9</b>	<b>Annual Allocation Factor for Expense</b>	<b>Sum of lines 4, 6 and 8</b>		<b>6.07%</b>
	<b>INCOME TAXES</b>			
10	Total Income Taxes	Attachment H-24A, p 3, line 27 col 5	-	
11	Annual Allocation Factor for Income Taxes	(line 8 divided by line 2 col 3)	0.00%	0.00%
	<b>RETURN</b>			
12	Return on Rate Base	Attachment H-24A, p 3, line 28 col 5	31,989,951	
13	Annual Allocation Factor for Return on Rate Base	(line 10 divided by line 2 col 3)	7.53%	7.53%
<b>14</b>	<b>Annual Allocation Factor for Return</b>	<b>Sum of lines 11 and 13</b>		<b>7.53%</b>

Note

- A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-24A and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- B Net Transmission Plant is that identified on page 2 line 14 of Attachment H-24A and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1 and includes CWIP in rate base if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment H-24A page 3 line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology if applicable.
- G The Network Upgrade Charge is the value to be used in PJM OATT Schedule 26.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in Attachment H-24A Appendix B, page 2, column 9.

For the 12 months ended 12/31/2017

East Kentucky Power Cooperative, Inc.  
RTEP - Transmission Enhancement Charges

Network Upgrade Charge Calculation By Project

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Line No.	Project Name	RTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Annual Revenue Requirement	True-Up Adjustment	Network Upgrade Charge
		(Note C)	(Page 1 line 7)	(Col. 3 * Col. 4)	(Note D)	(Page 1 line 12)	(Col. 6 * Col. 7)	(Note E)	(Sum Col. 5, 8 & 9)	(Note F)	Sum Col. 10 & 11 (Note G)	
1a		\$ -	6.07%	\$0.00	\$ -	7.53%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
1b		\$ -	6.07%	\$0.00	\$ -	7.53%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
1c		\$ -	6.07%	\$0.00	\$ -	7.53%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
2	Annual Totals								\$0	\$0	\$0	

3 RTEP Transmission Enhancement Charges for Attachment H-24A, Page 1, Line 5c \$0

Note Letter

- A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-24A and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- B Net Transmission Plant is that identified on page 2 line 14 of Attachment H-24A and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1 and includes CWIP in rate base if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment H-24A page 3 line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology if applicable.
- G The Network Upgrade Charge is the value to be used in Schedule 26.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in page 2 column 9.



Rate Formula Template  
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.  
Calculation of Prior Year Transmission Revenue Requirement True-up Adjustment  
To be completed in conjunction with Attachment H-24A

<u>Line No.</u>	(1)	(2)
<b><u>Reconciliation Adjustment for Transmission Revenue Requirements</u></b>		
1	Actual Transmission Revenue Requirement for 12 Months Ended 12/31/2017 including True Up for 12 months ended 12/31/2016 (1)	\$ 77,633,270.78
2	Less: True Up Under/(Over) Recovery Adjustment for EKPC Appendix H-24A: Adjustment for 12 mo. ended 12/31/2016 (2)	\$ 64,649.97
3	Transmission revenue requirements for the 12 months ended 12/31/2017 (Line 1 - Line 2)	\$ 77,568,620.81
4	Less: Actual Transmission Revenue Collected for 12 months Ended 12/31/2017 (3)	\$ 73,147,796.28
5	True-Up Principal Under(Over) Recovery before Interest (Line 3 - Line 4)	\$ 4,420,824.53
6	Monthly Interest Rate--Final FERC rate (4)	0.333%
7	Number of Months being Trued Up	24
8	Interest (Line 5 x Line 6 x Line 7)	\$ 353,665.96
9	True Up Principal & Interest Under(Over) Recovery--Preliminary (5) (Line 5 + Line 8)	\$ 4,774,490.49

Notes:

- (1) Revenue requirement from Page 1 of 5, line 7 of Attachment H-24A for the referenced year.  
(2) EKPC Attachment H-24A, page 1 of 5, Line 6a for the referenced recovery year  
(3) Revenue received under PJM Tariff Schedules 7 and 8 under Attachment H-24A for the referenced year.  
(4) See: <http://www.ferc.gov/enforcement/acct-matts/interest-rates.asp> for the appropriate Months  
(5) Goes to Attachment H-24A, page 1 of 5, line 6a

For the 12 months ended 12/31/2017

Rate Formula Template  
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.  
Calculation of Prior Year EKPC Schedule 1A Revenue Requirement True-up Adjustment  
To be completed in conjunction with Attachment H-24A

Line No.	(1)	(2)
	<b><u>Reconciliation Adjustment for Schedule 1A Charges</u></b>	
10	Actual Schedule 1-A Costs for 12 Months Ended 12/31/2017 including True Up for 12 months ended 12/31/2016 (6)	\$ 3,452,169.52
11	Less: True Up Under/(Over) Recovery Adjustment for EKPC Sch. 1A for for 12 mo. ended 12/31/2016 (7)	\$ 111,345.01
12	True-Up Principal Under(Over) Recovery before Interest (Line 10 - Line 11 )	\$3,340,824.51
13	Less: Actual Sch. 1A Revenue Collected for 12 months Ended 12/31/2017 (8)	<u>\$3,326,249.49</u>
14	True-Up Principal Under(Over) Recovery before Interest (Line 12 - Line 13)	\$ 14,575.02
15	Monthly Interest Rate--Final FERC rate (9)	0.333%
16	Number of Months being Trued Up	24
17	Interest (Line 14 x Line 15 x Line 16)	<u>\$ 1,166.00</u>
18	True Up Principal & Interest Under(Over) Recovery--Preliminary (10) (Line 14 + Line 17)	<u><u>\$ 15,741.02</u></u>

Notes:

- (6) Revenue requirement calculated using EKPC Attachment H-24A, Appendix A and actual cost information for the referenced
- (7) EKPC Attachment H-24A, Appendix A, Line 6a for the referenced recovery year.
- (8) Revenue received from PJM under PJM Tariff Schedules 7 and 8 for the EKPC Zone under Attachment H-24A for the referenced
- (9) See: <http://www.ferc.gov/legal/acct-matts/interest-rates.asp> for the appropriate Month
- (10) Goes to Attachment H-24A, Appendix A, line 4.

East Kentucky Power Cooperative, Inc.  
Depreciation Rates  
Rates effective for year ending December 31, 2017

Line No.	FERC Account Number (A)	Company Account Number (B)	Description (C)	Actual Accrual Rates (D) %
<b>Transmission Plant (1)</b>				
1	350	350010	Rights of Way (No depr on land)	-
2	353	353000	Station Equipment	1.790
3	353	353010	Station Equipment - ECS	1.790
4	354	354000	Towers and Fixtures - Trans Plant	0.710
5	355	355000	Poles & Fixtures	1.560
6	356	356000	Overhead Conductors & Devices	1.490
7	359	359000	Roads and Trails - Trans Plant	2.778
<b>General and Intangible Plant</b>				
8	303	303000	Miscellaneous Intangible Plant	2.857
9	390	390000	Structures and Improvements - General Plant	4.778
10	391	391000	Office Furn & Equip - Gen Plant	0.200
11	391	391001	Office Furn & Equip - Peoplesoft	20.000
12	392	392000	Transportation Equipment	16.667
13	393	393000	Stores Equipment	10.000
14	394	394000	Tools, Shop & Garage Equipment	10.000
15	395	395000	Lab Equipment - General Plant	10.000
16	396	396000	Power Operated Equip - Gen Plant	10.000
17	397	397000	Communication Equipment - General Plant	10.000
18	397	397000	Communication Bldgs & Towers	3.030
19	397	397001	Communication Eq - ECS - General Plant	10.000
20	398	398000	Misc Equip - General Plant	10.000

NOTES:

(1) Depreciation Rates approved in KPSC Case No. 2006-00236.

East Kentucky Power Cooperative  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

**Materials and Supplies (1)  
Allocation of Account 163**

<u>Line</u> <u>No.</u>		<u>M&amp;S</u>	<u>Percentage</u>	<u>Acct 163</u> <sup>(2)</sup>	<u>Total M&amp;S</u> <sup>(3)</sup>
1	Production	\$ 38,138,850	61.98%	-	
2	Transmission	23,321,421	37.90%	-	
3	Distribution	69,545	0.11%	-	
4	Total M&S	<u>\$ 61,529,816</u>	<u>100.00%</u>	<u>-</u>	<u>\$ 23,321,421</u>

Notes:

(1) Source - EKPC Form FF1 Ref Pg 227, Column C

(2) Unallocated M&S balance as of Year End

(3) To Attachment H-24A, Page 2 of 5, Line 27.

**East Kentucky Power Cooperative, Inc.**  
**Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)**

**Detail of Land Held for Future Use (1)**

<u>Line No.</u>	<u>Property Description</u>	<u>Transmission Related</u>	<u>Non-Transmission Related Portion</u>	<u>Reported on EKPC Form FF1</u>
1.	Proposed East London Substation Site	\$ -	\$ 27,462	\$ 27,462
2		-	-	-
3		-	-	-
4		-	-	-
5		-	-	-
6		-	-	-
7	Balances	<u>\$ -</u>	<u>\$ 27,462</u>	<u>\$ 27,462</u>

Notes:

(1) Source: EKPC Form FF1 Ref Pg 214, Account 105

**East Kentucky Power Cooperative, Inc.**  
**Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)**

**Safety and Non-Safety Related Advertising, Regulatory Expense, and PJM Integration Costs**

<u>Line No.</u>	<u>Source</u>	<u>EKPC</u>	
1	<b>General Advertising - Account 930.1</b>	Form FF1, P. 321, col. B	\$ 688,163
2	Amount of Safety Related Advertising		<u>-</u>
3	Amount of Non-Safety Related Advertising (1)	Note 1	<u>\$ 688,163</u>
4	<b>Regulatory Commission Expense - Account 928</b>	Note 2	\$ 1,682,405
5	Less: Regulatory Expense unrelated to transmission (2)	Note 3	(1,404,208)
6	Regulatory Expense Assoc w FERC Transmission Tariff	Note 4	20,200
7	Regulatory Commission Expense Related to Transmission		<u>\$ 298,396</u>
8	<b>PJM Integration Costs</b>	Note 5	
9	Consulting		\$ -
10	Legal Fees		\$ -
11	PJM Charges		\$ -
12	Equipment / Software Upgrades (Transmission Only)		<u>\$ -</u>
13			<u>\$ -</u>
14	Amortize for 3 years		\$ -

**Notes:**

- 
- (1) To Attachment H-24A, Page 3 of 5, Line 5  
(2) Regulatory fees from Kentucky Public Service Commission, EKPC Form FF1, Ref Pg 321, Account 928  
(3) Portion of regulatory expense for proceedings during the year that were not related to transmission, derived using the transmission function W/S allocator (See Attachment H-24A, page 4 of 5, line 16)  
(4) Direct costs of preparing the annual update and True-up of Transmission rates and posting the results with PJM  
(5) Represents direct costs associated with EKPC's integration into PJM (transmission-related only) with three year amortization

**East Kentucky Power Cooperative, Inc.  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)**

**Balancing Authority Costs**

Line No.		EKPC
	<b>A&amp;G Expense</b>	
1	A&G Expense, Page 321, line 168, Current Year	\$ 41,811,754
2	Adjustments	-
3	Adjusted A&G Expense - To Attachment H-24A, Page 3 of 5, Line 3	\$ 41,811,754
	<b>Transmission Expense</b>	
4	Transmission Expense, EKPC Form FF1, Ref Pg 321, line 100, Current Year	\$ 54,982,645
5	Adjustments	-
6	Adjusted Transmission Expense - To Attachment H-24A, Page 3 of 5, Line 1	\$ 54,982,645
	<b>Balancing Authority Costs in 561 through 561.3</b>	
7	B.A. Costs in Transmission Expense on EKPC Form FF1, Ref Pg 321	\$ 3,397,525
8	Less TVA Reliability Service Payments EKP Subaccount 561100	-
9	Adjusted B.A. Costs	\$ 3,397,525
10	Total Balancing Authority Costs (561.BA) in Adj Transmission Exp	\$ -
11	Revenue Credits for Sched 1 / Acct 561 (2)	\$ 3,397,525

Notes:

- (1) Costs related to BA activities not included in Schedule 1 Costs  
(2) To Attachment H-24A Page 4 of 5, Line 7

**East Kentucky Power Cooperative, Inc.  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)**

**Determination of Transmission Plant Included in OATT Ancillary Services**

<u>Line No.</u>	<u>EKPC</u>
1    Generation Step-up Transformers (1)	\$                    18,193,066
2    Sole use Property	-
3    Distribution Use	-
4    Transmission plant included in OATT Ancillary Services (2)	\$                    18,193,066

**Notes:**

---

(1) GSU capital costs that are included in the Transmission capital Account 353; amounts sourced from EKPC's PeopleSoft Asset Management System.

(2) To Attachment H-24A, page 4 of 5, Line 3



**East Kentucky Power Cooperative, Inc.**  
**Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)**

**Revenue Credits, Accounts 454, 456, 459 and GFA Revenues**

<u>Line No.</u>			<b>Account 454</b>
			<b>EKPC</b>
1	Per Books Total, Page 300 (Total Accts 440-459)		\$ 851,161,118
2	Tower Lease Revenues in per Books Total above		-
3	Rent from Electric Property FF1 Pg 300, Account 454	Note 1	159,299
4	Portion Attributable to Transmission		100.0%
5	Revenue Credit Applicable to Attachment H-24A		\$ 159,299
6	Total Account 454	Note 2	\$ 159,299
<b>Account 456, 459</b>			
<b>EKPC</b>			
7	EKPC Form FF1, Page 300, Accounts 456 - 459	Note 3	\$ 15,555,349
Remove Non-Transmission and Non-ISO Related Revenues:			
8	Production (Accts 456010, 456042, 456043 and 459000)		11,940,571
9	Common Transmission		-
10	Distribution		-
11	Customer Account (Accounts 456054 and 456057)		98,071
12	Administrative and General (Acct 456003)		600
13	Acct 456 less non-transmission and non-ISO revenue		\$ 3,516,107
14	Total EKPC Account 456130 Transmission Service		3,143,603
15	Adjusted Total Accounts 456 - 459		\$ 372,504
<b>GFA Revenues</b>			
16	Less: AEP Revenue from retained legacy agreement	Note 4	\$ 126,611
17	Total Other Transmission Revenue Credits	Note 5	\$ 245,893

**Notes:**

- (1) Rent from KU for joint use of Rights of Way, Ref Pg 300, Page 1 of 2 (Acct 454)  
(2) To Attachment H-24A, Page 4 of 5, line 34  
(3) The amount shown in account 456 in FF1 includes revenues from sales of renewable energy credits included in account 459.  
(4) Revenue from AEP GFA Account 456101- to Attachment H-24A, Page 1 of 5, Line 4.  
(5) To Attachment H-24A, Page 4 of 5, Line 35

East Kentucky Power Cooperative, Inc.  
Utilizing EKPC 2017 Form FF1 Data (ver. FINAL - AUDITED)

Capital Structure  
As of December 31, 2017  
(In Dollars)

Line No.	Description				
<b>Development of Cost of L.T. Interest</b>					
1	Long term Interest (Note 1)	\$	114,915,472		
2	Outstanding Long Term Debt (Note 2)	\$	2,468,515,698		
3	<b>Average Cost of Debt (Line 1/Line 2)</b>			<b>4.655%</b>	
<b>Development of Required Return</b>					
			<b>Value</b>	<b>Percent</b>	<b>Cost (Note 4)</b>
4	Long Term Debt	\$	2,468,515,698	80.12%	4.655%
5	Proprietary Capital (Note 3)		612,445,027	19.88%	16.365%
6	Total (Line 4 plus Line 5)	\$	3,080,960,725		<b>6.983%</b>
7	<b>Effective TIER (Note 4)</b>			<b>TIER =</b>	<b>1.50</b>

Notes:

1. EKPC Form FF1 Ref Pg 117 Row 58, Column b, Current Year
2. EKPC Form FF1 for 2017 Ref Pg 112, Row 23 Bal at End of Year
3. EKPC Form FF1 for 2017 Ref Pg 112, Row 15 Bal at End of Year
4. 1.50.

**East Kentucky Power Cooperative, Inc.**

MONTHLY PEAKS IN KILOWATTS

Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Average
1	EKPC - Monthly Total Native Load (1)	2,755,434	2,398,851	2,409,559	1,634,178	1,802,459	2,026,236	2,215,861	2,107,196	1,917,453	1,884,880	2,125,389	2,657,157	25,934,653	2,161,221
2	EKPC Firm Transmission for Others (kW)														
3															
4	Duke Kentucky	13,966	12,844	13,012	11,662	13,493	17,466	19,164	19,824	17,279	10,786	12,080	14,900	176,496	14,708
5	KU/LGE														
6	Bedford	3,775	3,118	3,085	1,816	2,069	2,599	2,726	2,555	2,586	2,382	2,536	3,654	32,901	2,742
7	Columbia	7,435	6,188	6,360	3,923	5,044	6,132	6,595	6,575	5,702	5,059	5,283	6,631	70,927	5,911
8	Columbia South	5,799	4,900	4,617	3,067	3,751	4,483	5,095	4,494	4,111	3,643	3,905	5,270	53,136	4,428
9	Falmouth	2,901	2,870	2,787	2,139	3,077	3,832	4,307	3,895	3,585	2,240	2,411	2,901	36,944	3,079
10	Garrard	94	87	82	26	16	16	16	16	16	391	123	82	986	80
11	Horse Cave	33,893	35,050	41,318	37,978	41,203	40,882	42,120	41,218	40,008	35,290	37,603	38,136	464,698	38,725
12	Hunters Bottom	2,359	1,980	1,732	1,098	1,101	1,453	1,638	1,409	1,322	1,237	1,638	2,227	19,193	1,599
13	Liberty	10,632	9,205	10,506	5,026	6,382	7,636	8,071	7,873	7,345	8,615	8,938	11,389	101,617	8,468
14	Mackville	866	618	536	308	297	367	480	434	395	434	503	844	6,103	509
15	Munfordville	6,265	5,769	5,658	3,515	5,077	6,292	6,803	6,286	5,900	4,808	5,008	6,273	67,655	5,638
16	Owingsville	6,046	5,857	6,250	5,028	6,259	6,396	7,839	6,574	7,002	6,006	5,475	6,920	75,650	6,304
17	Revelo	2,899	2,248	2,875	1,356	1,286	1,310	1,644	1,573	1,227	2,313	2,518	2,780	24,029	2,002
18	Russell Springs	10,588	7,999	8,796	4,890	5,345	6,237	6,805	6,258	5,453	6,798	6,860	10,835	86,865	7,239
19	Whitley City	7,577	5,953	6,085	3,054	2,863	3,240	4,092	3,716	3,065	4,243	5,027	7,173	56,090	4,674
20	Subtotal Transmission for KU/LGE	101,150	91,841	100,688	73,226	83,770.92	90,872.28	98,232	92,876.86	87,718	83,457	87,828	105,115	1,096,774	91,398
21	Total EKPC Firm Transmission for Others Subtotal (kW)	115,115	104,686	113,699	84,888	97,264	108,338	117,416	112,701	104,997	94,243	99,908	120,015	1,273,270	106,106
22	Total EKPC Monthly Transmission System Peak Load	2,870,550	2,503,537	2,523,258	1,719,066	1,899,723	2,134,574	2,333,277	2,219,898	2,022,449	1,979,123	2,225,296	2,777,172	27,207,923	2,267,327

Notes:

(1) Reflects the system peak demand (coincident peak) during a 60-minute clock hour. January 2017 through December 2017 information is sourced from the MV90 system.

EKPC - Monthly Total Native Load (EKPTOT)	2,778,648	2,422,283	2,438,935	1,653,568	1,822,996	2,057,452	2,246,800	2,140,352	1,949,315	1,910,317	2,151,951	2,685,142	26,257,760	2,188,147
EKPC Total Load less Wheel-Out Load (EKP - WHEEL)	2,263,713	1,954,246	1,975,748	1,298,897	1,442,393	1,632,566	1,789,134	1,693,974	1,540,044	1,528,679	1,733,205	2,184,800	21,037,399	1,753,117
EKPC Load on LGE/KU Transmission System (KU & LGE)	491,722	444,605	433,810	335,282	360,066	393,870	426,727	413,222	377,408	356,201	392,184	472,357	4,897,255	408,105
EKPC Total Load Excluding DUKE/AEP	2,755,434	2,398,851	2,409,559	1,634,178	1,802,459	2,026,236	2,215,861	2,107,196	1,917,453	1,884,880	2,125,389	2,657,157	25,934,653	2,161,222
EKPTOT less EKPC Total Load Excluding DUKE/AEP	23,214	23,431	29,376	19,390	20,537	31,216	30,939	33,156	31,863	25,436	26,563	27,985	323,106	26,926
EKPC Subs fed by DUKE (CINERGY)	15,103	15,598	21,217	14,606	15,278	25,032	24,113	26,333	26,172	18,851	19,605	19,333	241,242	20,103
EKPC Subs fed by AEP (KP_TOTAL)	8,110	7,833	8,159	4,783	5,259	6,184	6,826	6,822	5,691	6,587	6,957	8,651	81,864	6,822
EKPC Subs fed by DUKE/AEP	23,214	23,431	29,376	19,390	20,537	31,216	30,939	33,156	31,863	25,436	26,563	27,985	323,106	26,925
Check Difference	0	0	0	0	0	0	0	0	(0)	(0)	0	(0)		