

Study of Economic Impact to Prairie Hollow Consumers from Electric Service Provider

The following summarizes key inputs and results of the study completed to evaluate economic impact to residential consumers in the Prairie Hollow subdivision based on their electric service. Electric service providers reviewed were Central Missouri Electric Cooperative (CMEC) and Evergy. A random sample of residential sites in a nearby subdivision served by CMEC was taken to generate reasonable monthly kWh & kW determinants for the new Prairie Hollow Subdivision. 61,320 hourly intervals (8,760 per site) were analyzed for proper application to time-of-use rates. Present default rates, as of September 2025, were input for both CMEC and Evergy. Evergy riders and adjustments, which regularly fluctuate, were estimated based on 60 month weighted average.

Results show that there is no significant positive or negative impact to consumers from either electric service. Note that there is a slightly better economic impact to the average consumer with CMEC service compared to Evergy after application of the future Capital Credit payment. For transparency, this payment is discounted to a present value based on CMEC's present Capital Credit retirement cycle of 14 years and most recent board approved discount rate.

Reference Residential Site Usage (From Subdivision 1.1 miles Northeast of Prairie Hollow)								
	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Average
Avg Monthly kWh	1,505	1,175	1,680	1,674	1,538	1,323	1,394	1,470

November 1, 2022, through October 31, 2023, hourly interval data was pulled for the above sites and averaged to generate the reasonable determinants used below.

Determinants					
	kWh	kWh	Peak kWh	All kWh	Demand
Jan	332	1,038	350	1,720	9.2
Feb	264	838	292	1,394	8.6
Mar	276	849	313	1,438	8.3
Apr	238	640	236	1,114	8.3
May	332	743	217	1,292	7.8
Jun	409	917	211	1,537	8.2
Jul	461	1,039	249	1,749	8.5
Aug	472	1,051	250	1,773	8.4
Sep	386	759	175	1,320	7.7
Oct	281	668	176	1,125	8.0
Nov	280	848	301	1,429	8.8
Dec	337	1,042	370	1,749	8.9

Evergy Rate Riders & Adjustments		
	Rate/kWh (60-month average)	
DSIM	\$	0.003730
FAC	\$	0.005234
RESRAM	\$	0.000851

CMEC Margins & Capital Credits (CC)	
Annual Margin %	14%
Payout Years	14
Discount Rate	5.26%

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CMEC Rates & Bill						
	Avail.	kWh	kWh	kW DMD	Bill	
Jan	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 211.88	
Feb	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 180.34	
Mar	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 184.02	
Apr	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 153.57	
May	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 169.55	
Jun	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 193.18	
Jul	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 213.56	
Aug	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 215.66	
Sep	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 172.03	
Oct	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 154.15	
Nov	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 183.93	
Dec	\$ 30.00	\$ 0.1020	\$ 0.0940	\$ 1.50	\$ 214.16	
						Difference From Evergy
				Annual Cost	\$2,246.01	2.2%
				Discounted CC	\$ (153.41)	
				Final Annual Cost	\$2,092.60	-4.8%

Evergy Rates & Bill								
	Customer Charge	First 600 kWh	Next 400 kWh	Over 1000 kWh	On-Peak kWh	Super Off-Peak kWh	DSIM+FAC +RESRAM	Bill
Jan	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 183.00
Feb	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 153.19
Mar	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 157.08
Apr	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 127.73
May	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 144.71
Jun	\$ 12.90	\$ 0.12721	\$ 0.12721	\$ 0.13796	\$ 0.01075	\$ (0.01075)	\$ 0.009814	\$ 231.41
Jul	\$ 12.90	\$ 0.12721	\$ 0.12721	\$ 0.13796	\$ 0.01075	\$ (0.01075)	\$ 0.009814	\$ 262.89
Aug	\$ 12.90	\$ 0.12721	\$ 0.12721	\$ 0.13796	\$ 0.01075	\$ (0.01075)	\$ 0.009814	\$ 266.54
Sep	\$ 12.90	\$ 0.12721	\$ 0.12721	\$ 0.13796	\$ 0.01075	\$ (0.01075)	\$ 0.009814	\$ 199.48
Oct	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 129.51
Nov	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 156.38
Dec	\$ 12.90	\$ 0.10522	\$ 0.08300	\$ 0.08300	\$ 0.00269	\$ (0.01075)	\$ 0.009814	\$ 185.49
						Annual Cost	\$ 2,197.40	