

Kansas City Power & Light Company
Case No. ER-2012-0174
KCP&L Current and KCP&L Proposed Residential Rates

Line	Description	KCP&L Current Residential Rates (5/4/11)					KCP&L Proposed Residential Rates				
		General Use	General Use and Space Heat - One Meter	General Use and Space Heat - 2 Meters	Other Use	Time of Day	General Use	General Use	General Use	Other Use	Time of Day
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	Rate Sheet	5A	5A	5B	6	8	5A	5A	5B	6	8
2	Frozen			1/2/2007					1/2/2007		
3	Service Charge	9.00	9.00	11.05	9.00	14.04	10.35	10.35	12.71	10.35	16.15
4	Energy Charge										
5	<u>Summer</u>										
6	All kWh	0.11028	0.11028	0.11028	0.14323		0.12688	0.12688	0.12688	0.16477	
7	Peak - All kWh					0.16912					0.19456
8	Off-Peak - All kWh					0.09422					0.10839
9	<u>Winter</u>										
10	First 600 kWh	0.09914		0.09914			0.11405		0.11405		
11	Next 400 kWh	0.05945		0.05945			0.06839		0.06839		
12	Over 1000 kWh	0.04968		0.04968			0.05715		0.05715		
13	First 1000 kWh		0.07382					0.08492			
14	Over 1000 kWh		0.04872					0.05605			
15	Separate Meter - All kWh			0.04747					0.05462		
16	All kWh				0.11129	0.06964				0.12803	0.08011

Source: Current rates from Electronic Filing Information System, Missouri Public Service Commission. Proposed rates from KCP&L Application, Appendix 1.

Kansas City Power & Light Company
 Case No. ER-2012-0174
Residential Winter Energy Charge Changes Since 1999

Line	Description (a)	Effective Date of Rates					
		August 1, 1999 (b)	January 1, 2007 (c)	January 1, 2008 (d)	September 1, 2009 (e)	May 4, 2011 (f)	Proposed (g)
1	Winter Block Rate Difference (Cents/kWh):						
2	General Use Schedule ¹						
3	Second Block Rate Less First Block Rate	(2.68)	(3.02)	(3.26)	(3.78)	(3.97)	(4.57)
4	Third Block Rate Less Second Block Rate	(0.66)	(0.74)	(0.80)	(0.93)	(0.98)	(1.12)
5	General Use and Space Heat - One Meter Schedule ²	(1.42)	(1.60)	(1.71)	(1.99)	(2.51)	(2.89)
6	Rate Advantage Space Heat - One Meter Schedule						
7	Compared to General Use Schedule (Cents/kWh) at:³						
8	350 kWh	(1.98)	(2.23)	(2.42)	(2.81)	(2.53)	(2.91)
9	700 kWh	(1.60)	(1.80)	(1.95)	(2.27)	(1.97)	(2.26)
10	1000 kWh	(0.91)	(1.02)	(1.12)	(1.30)	(0.94)	(1.09)
11	1500 kWh	(0.63)	(0.70)	(0.77)	(0.90)	(0.66)	(0.76)

¹ The three General Use rate blocks are First 600 kWh, Next 400 kWh, Over 1000 kWh.
² The two General Use and Space Heat-One Meter rate blocks are First 1000 kWh and Over 1000 kWh.
³ Usage levels selected to bracket the General Use winter average of 697 kWh and the General Use and Space Heat - One Meter winter average of 1035 kWh.

Kansas City Power & Light Company
Case No. ER-2012-0174

Cost of Service Required Residential Revenue Shifts and Resulting Winter Energy Revenue Per kWh

Line	Description	Winter	Summer	Total	Sources/Explanation
	(a)	(b)	(c)	(d)	(g)
1	Required Winter-Summer Revenue Shifts to Equalize Rates of Return				
2	Net Operating Income	18,778,357	23,549,977	42,328,334	Lines 2-4: KCP&L's Response to Data Request MGE-1.
3	Rate Base	417,476,411	361,827,988	779,304,399	
4	Rate of Return	4.498%	6.509%	5.432%	
5	Net Operating Income at Equalized Rate of Return	22,675,454	19,652,880	42,328,334	Line 4, column d x line 3 for each class.
6	Rate of Return	5.432%	5.432%	5.432%	Line 5/line 3.
7	Required Revenue Shift	6,325,326	(6,325,326)	-	(Line 5 - line 2) x 1/(1 - tax rate). The tax rate of 38.389% provided in KCP&L's Response to Data Request MGE-1.

Line	Description	General Use and Other Use	General Use and Space Heat - One Meter	General Use and Space Heat - 2 Meters	Time of Day	Total	
	(a)	(b)	(c)	(d)	(e)	(f)	
8	Required Winter Revenue Shifts to Equalize Rates of Return						
9	Net Operating Income	15,549,980	2,546,023	678,611	3,743	18,778,357	Lines 9-11: KCP&L's Responses to Data Request MGE-1.
10	Rate Base	300,520,736	87,139,641	29,715,905	100,128	417,476,411	
11	Rate of Return	5.174%	2.922%	2.284%	3.739%	4.498%	
12	Net Operating Income at Equalized Rate of Return	16,322,944	4,733,036	1,614,035	5,439	22,675,454	Line 4, column b x line 10 for each class.
13	Rate of Return	5.432%	5.432%	5.432%	5.432%	5.432%	Line 12/line 10.
14	Required Revenue Shift	1,254,588	3,549,712	1,518,275	2,752	6,325,326	(Line 12 - line 9) x 1/(1 - tax rate).
15	Winter Energy Revenue per kWh¹						
16	Current	0.0823	0.0655	0.0637			
17	After Required Revenue Shift	0.0834	0.0757	0.0770			

¹ Test year winter kWh by schedule and rate block were provided in KCP&L's Response to Data Request MGE-4. Current winter energy charge revenue used in line 16 is calculated based on these kWhs and current rates in Schedule FJC-1. Line 17 is calculated based on these kWhs, current winter energy charge revenue, and the revenue shift in line 14.

Kansas City Power & Light Company

Case No. ER-2012-0174

Current Residential Rates: Ameren Missouri and The Empire District Electric Company

Line	Description (a)	Ameren Missouri (7/31/2011)		The Empire District Electric Company (6/15/11)
		Residential Service (b)	Optional Time of Day Rate (c)	General Use (g)
1	Rate Sheet	28	28	1
3	Service Charge	8.00	16.81	12.52
4	Energy Charge			
5	<u>Summer</u>			
6	All kWh	0.1059		0.1070
7	Peak - All kWh		0.1539	
8	Off-Peak - All kWh		0.0630	
9	<u>Winter</u>			
10	First 750 kWh	0.07530		
11	Over 750 kWh	0.05020		
12	First 600 kWh			0.1070
13	Over 600 kWh			0.0871

Source: Current rates from Electronic Filing Information System, Missouri Public Service Commission.

Kansas City Power & Light Company
Case No. ER-2012-0174

Electric Versus Natural Gas Space Heating Prices

Maximum Electric Price (Cents/kWh) Required for Customer Savings With Electric Space Heating Compared to Natural Gas Heating Service From Missouri Gas Energy

Line		Natural Gas		
		Low-Efficiency	Mid-Efficiency	High-Efficiency
		(a)	(b)	(c)
1		80%	90%	95%
2	Electricity			
3	Electric Furnace	1.72	1.52	1.44
4	Electric Heat Pump ¹			
5	HSPF < 8.5	3.61	3.21	3.04
6	HSPF > 8.5	3.93	3.49	3.01

Current Winter Energy Charges (Cents/kWh)

		General Use	General Use and Space Heat - One Meter	General Use and Space Heat - 2 Meters
		(a)	(b)	(c)
8	First 600 kWh	9.91		9.91
9	Next 400 kWh	5.95		5.95
10	Over 1000 kWh	4.97		4.97
11	First 1000 kWh		7.38	
12	Over 1000 kWh		4.87	
13	Separate Meter - All kWh			4.75

¹ Heating Season Performance Factors ("HSPF") and resulting efficiencies are for Kansas City in EIA's Heating Fuel Comparison Calculator.

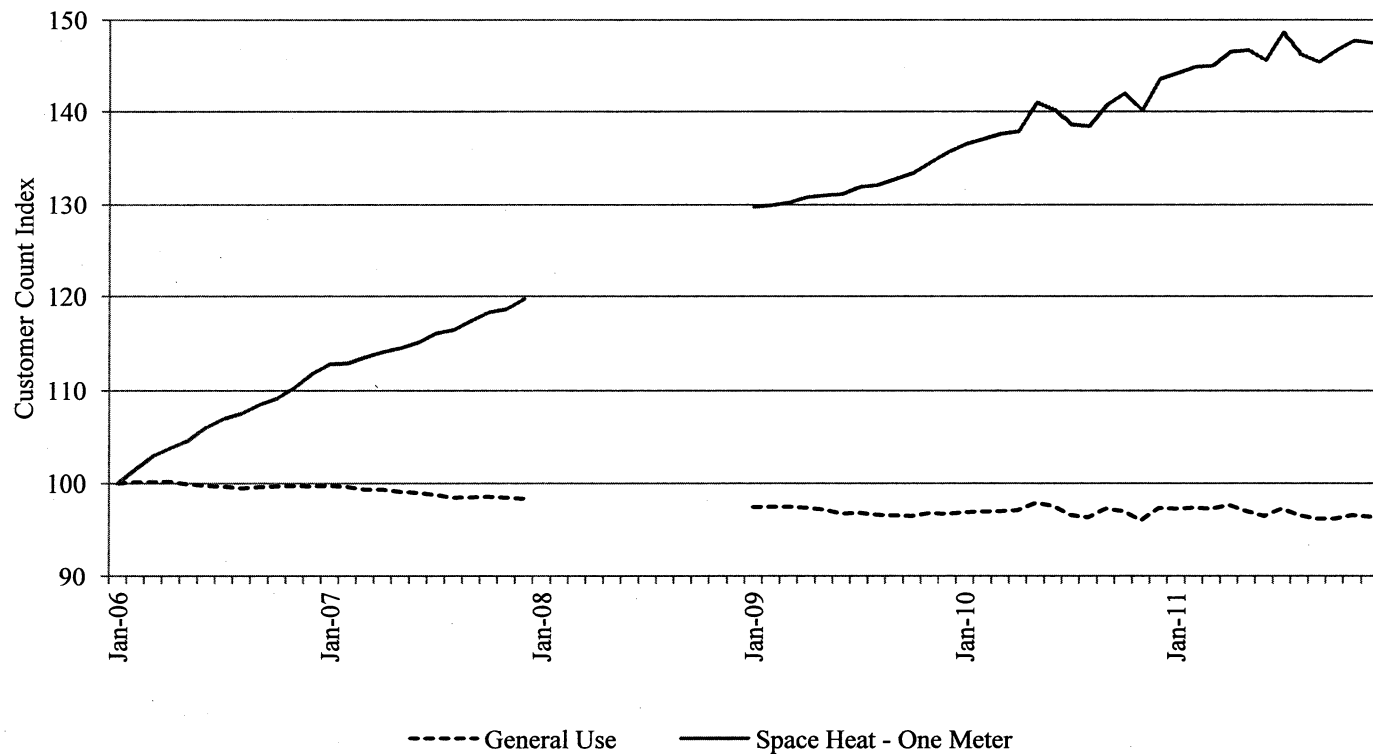
Kansas City Power & Light Company
Case No. ER-2012-0174
KCP&L Average Annual Number of Residential Customers

Average Number Based on Monthly Actual Customer Counts¹

Line	Description	2006	2007	2009	2010	2011
	(a)	(b)	(c)	(d)	(e)	(f)
1	Number of Customers					
2	General Use	195,101	193,377	189,577	189,619	189,333
3	Space Heat - One Meter	28,684	31,322	35,695	37,724	39,547
4	Space Heat - 2 Meters	10,702	10,598	10,588	10,685	10,774
5	Time of Day	46	47	43	42	41
7	Change in Number of Customers From Prior Period					
8	General Use		(1,724)	(3,800)	42	(286)
9	Space Heat - One Meter		2,638	4,373	2,029	1,823
10	Space Heat - 2 Meters		(104)	(10)	97	89
11	Time of Day		1	(4)	(1)	(1)

¹ Customer counts by month provided in KCP&L's Response to MGE Data Request MGE-5. Data for 2008 were not provided.

Kansas City Power & Light Company
Case No. ER-2012-0174
Residential General Use and Space Heat - One Meter Monthly Customer Count Indexes
(January 2006 Customers = 100)



Source: KCP&L's Response to MGE Data Request MGE-5. Data for 2008 were not provided.

Kansas City Power & Light Company

Case No. ER-2012-0174

KCP&L Average Annual Number of Residential Customers**Average Annual Number From KCP&L Rate Case Applications²**

Line	Description	2005 Test Year (9/30/2006)	2006 Test Year (9/30/2007)	2007 Test Year (9/30/2009)	2009 Test Year (12/31/2010)	Test Year Ending 9/30/2011
	(a)	(b)	(c)	(d)	(e)	(f)
1	Number of Customers					
2	General Use	199,240	196,858	192,737	189,938	188,355
3	Space Heat - One Meter	24,918	28,044	31,219	35,764	38,938
4	Space Heat - 2 Meters	10,998	10,836	10,563	10,608	10,712
5	Time of Day	50	47	46	43	41
7	Change in Number of Customers From Prior Period					
8	General Use		(2,382)	(4,121)	(2,799)	(1,583)
9	Space Heat - One Meter		3,126	3,175	4,545	3,174
10	Space Heat - 2 Meters		(162)	(273)	45	104
11	Time of Day		(3)	(1)	(3)	(2)

² KCP&L Application, Case Nos. ER-2006-0314, ER-2007-0291, ER-2009-0089, ER-2010-0355, and ER-2012-0174. The date in parentheses is the date through which known and measurable changes are reflected in the test year customer counts as shown in the Application.

Kansas City Power & Light Company
Case No. ER-2012-0174

Residential Winter Rates of Return With Illustrative 10 Percent Across-the-Board Revenue Increase

Line	Description	General Use and Other Use	General Use and Space Heat - One Meter	Rate of Return Difference	Sources/Explanation:
	(a)	(b)	(c)	(d)	(e)
1	Current Revenue	103,565,939	25,810,578		Calculated from KCP&L's Response to Data Request MGE-4.
2	Current Net Operating Income	15,549,980	2,546,023		Schedule FJC-3, line 9.
3	Rate Base	300,520,736	87,139,641		Schedule FJC-3, line 10.
4	Current Rate of Return	5.174%	2.922%	-2.253%	Columns a and b: Line 2/line 3. Column d: Column c - column b.
5	Increased Revenue	10,356,594	2,581,058		Line 1 x 1.10.
6	Net Operating Income with Increase	21,930,781	4,136,239		Line 2 + line 5 x (1- tax rate), where the tax rate is 38.389%.
7	Rate of Return With Revenue Increase	7.298%	4.747%	-2.551%	Columns a and b: Line 6/line 3. Column d: Column c - column b.

Line	Description	General Use and Other Use	General Use and Space Heat - 2 Meters	Rate of Return Difference	Sources/Explanation:
	(a)	(b)	(c)	(d)	(e)
8	Current Revenue	103,565,939	8,244,139		Calculated from KCP&L's Response to Data Request MGE-4.
9	Current Net Operating Income	15,549,980	678,611		Schedule FJC-3, line 9.
10	Rate Base	300,520,736	29,715,905		Schedule FJC-3, line 10.
11	Current Rate of Return	5.174%	2.284%	-2.891%	Columns a and b: Line 9/line 10. Column d: Column c - column b.
12	Increased Revenue	10,356,594	824,414		Line 8 x 1.10.
13	Net Operating Income with Increase	21,930,781	1,186,541		Line 9 + line 12 x (1- tax rate), where the tax rate is 38.389%.
14	Rate of Return With Revenue Increase	7.298%	3.993%	-3.305%	Columns a and b: Line 13/line 10. Column d: Column c - column b.

Kansas City Power & Light Company
Case No. ER-2012-0174
Recommended Residential Rates at Current Revenue

Line	Description	General Use	General Use and Space Heat - One Meter	General Use and Space Heat - 2 Meters	Time of Day	Other Use	All Classes	Source /Explanation
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Required Revenue Shift							
2	Winter ¹	1,254,583	3,549,712	1,518,275	2,752	4	6,325,326	Schedule FJC-3, line 14.
3	Summer						(6,325,326)	Schedule FJC-3, line 7, column c.
4	kWh							
5	Winter	1,088,206,115	347,810,042	114,311,169	358,781	2,839	1,550,688,946	Lines 5-6: KCP&L's Response to Data Request MGE-4.
6	Summer	816,830,573	175,039,863	40,700,731	268,496	19,883	1,032,859,546	
7	Total	<u>1,905,036,687</u>	<u>522,849,904</u>	<u>155,011,900</u>	<u>627,278</u>	<u>22,722</u>	<u>2,583,548,492</u>	Line 5 + line 6.
8	Revenue Shift/kWh							
9	Winter	0.0012	0.0102	0.0133	0.0077	0.0016		Line 2/line 5.
10	Recommended Rates at Current Revenue After Revenue Shift							
11	Service Charge	9.00	9.00	11.05	14.04	9.00		Schedule FJC-1, line 3.
12	Winter Energy Charges							
	All kWh				0.07731	0.11285		Line 9 + Schedule FJC-1, line 16.
13	Eliminate Space Heat²							
14	First 1000 kWh	0.08732		Rates on lines				Lines 14-15: General Use and Space Heat
15	Over 1000 kWh	0.06222		17-22 apply				Heat (columns b and c) consolidated, based on Schedule FJC-1 current rates incorporating line 9.
16	Retain Space Heat							
17	First 600 kWh	0.10029		0.10029				Lines 17-22: Schedule FJC-1 current rates +
18	Next 400 kWh	0.06060		0.06060				line 9, with adjustment to Space Heat - 2 Meters
19	Over 1000 kWh	0.05083		0.05083				to maintain same blocked rates as General Use.
20	First 1000 kWh		0.08403					
21	Over 1000 kWh		0.05893					
22	Separate Meter - All kWh			0.06910				
23	Summer Energy Charge Change						(0.00612)	Apply to all Schedule FJC-1 summer energy charges.

¹The General Use and Other Use revenue shift is split between the General Use and Other Use schedules based on relative winter energy charge revenue at current rates.

²Rates shown on lines 17-22 apply for General Use and Space Heat - 2 Meters because billing determinants to include Space Heat - 2 Meters in the consolidated General Use schedule were not provided in KCP&L's in Response to Data Request MGE-2-1.

Kansas City Power & Light Company
Case No. ER-2012-0174
Energy Charge Changes With Assumed Base Revenue Change

Line	Description	Winter	Summer	Annual	Sources/Explanation
	(a)	(b)	(c)	(d)	(e)
1	Equalized Seasonal Return at Current Revenue				
2	Required Net Operating Income	22,675,454	19,652,880	42,328,334	Schedule FJC-3, line 5.
3	Rate Base	417,476,411	361,827,988	779,304,399	Schedule FJC-3, line 3.
4	Current Rate of Return	5.432%	5.432%	5.432%	Line 2/line 3.
5	Assumed Base Revenue Change			13,011,164	Assumed base revenue change, or about one-third of request.
6	Resulting Net Operating Income			50,344,642	Line 1 + line 4 x (1 - tax rate), where the tax rate is 38.389%.
7	Resulting Rate of Return			6.460%	Line 6/line 2.
8	Revenue Change to Maintain Equalized Seasonal Returns	6,970,132	6,041,033		(Line 7, column d x line 3 - line 2) x 1/(1 - tax rate).
9	Resulting Rate of Return	6.460%	6.460%		(Line 8 x (1 - tax rate) + line 1)/line 3.
10	Service Charge Revenue Change	902,338	396,328		Assumed 5% increase in all service charges.
11	Required Energy Charge Revenue Change	6,067,793	5,644,705		Line 8 - line 10.
12	Energy Charge Change	0.00391	0.00547		Column b: Line 12, column b/Schedule FJC-8, line 5, column g. Column c: Line 12, column c/Schedule FJC-8, line 6, column g.