

# Update on Regional Competitiveness of Kansas Electric Rates

Senate Utilities Committee—1/25/22

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# Focus of My Presentation:

1. Updated Kansas Electricity Rates Data (2020)
2. Regional Rate Comparisons

# Regional Rate Comparisons

- Regional electricity rate comparison based on the following nine states, plus Kansas: Colorado, Missouri, Oklahoma, Arkansas, Iowa, Minnesota, North Dakota, South Dakota, and Texas.
- All of the data will be sourced from the Energy Information Administration (EIA). Specifically, Tables 6, 7, and 8—released around October of every year for the previous year’s data.
- The regional electricity rate comparison would consist of the following:
  - The average residential, industrial, and commercial electricity rate for each Investor Owned Utility operating in these states, as reported by the EIA.
  - The average monthly electric bill for residential customers for each Investor Owned Utility operating in these states, as reported by the EIA.
  - The statewide average electricity rate for cooperative utilities in each of the states, presented for residential, commercial, and industrial customers as reported by the EIA.
  - The statewide average electricity rate for municipal utilities in each of the states, presented for residential, commercial, and industrial customers are reported by the EIA.
  - The statewide average electricity rate for all consumers across all utility types for each state.

# 2020 Update on Kansas Electric Rates

- In 2020, the most updated annual data we have from EIA, Average Electricity Rates in Kansas grew by 1.17%.
- Data for Kansas and the agreed-upon surrounding states are as follows from 2016-2020.

Average Electric Rate (\$/kWh) by State, All Consumers (2016-2020)							
	2016	2017	2018	2019	2020	2019/2020 Change	2016/2020 Change
United States Average	10.27	10.48	10.53	10.54	10.59	0.47%	3.12%
Minnesota	9.99	10.27	10.37	10.33	10.57	2.32%	5.81%
<b>Kansas</b>	<b>10.49</b>	<b>10.60</b>	<b>10.72</b>	<b>10.26</b>	<b>10.38</b>	<b>1.17%</b>	<b>-1.05%</b>
Colorado	9.83	9.99	10.02	10.17	10.27	0.98%	4.48%
South Dakota	9.83	10.05	9.97	9.96	10.06	1.00%	2.34%
Missouri	9.74	10.03	9.93	9.68	9.64	-0.41%	-1.03%
Iowa	8.55	8.73	8.92	9.08	8.97	-1.21%	4.91%
North Dakota	8.94	8.78	8.91	8.85	8.53	-3.62%	-4.59%
Texas	8.43	8.38	8.48	8.6	8.36	-2.79%	-0.83%
Arkansas	8.13	8.26	7.78	8.22	8.32	1.22%	2.34%
Oklahoma	7.83	8.20	8.09	7.86	7.63	-2.93%	-2.55%

# 2020 Update on Kansas Electric Rates (Industrial) <sup>5</sup>

- In 2020, Kansas' average electric rate for Industrial customers declined .71%.

## 2020 Average Rate per kWh- Industrial

State	2019 Average Price (cents/kWh)	2020 Average Price (cents/kWh)	2020/2019 Change
South Dakota	7.81	7.79	-0.25%
Minnesota	7.53	7.67	1.89%
Colorado	7.40	7.48	1.14%
<b>Kansas</b>	<b>7.35</b>	<b>7.30</b>	<b>-0.71%</b>
North Dakota	7.94	7.26	-8.53%
Missouri	7.11	6.84	-3.77%
<b>U.S. Total</b>	<b>6.81</b>	<b>6.67</b>	<b>-2.08%</b>
Iowa	6.60	6.43	-2.62%
Arkansas	6.13	5.89	-3.89%
Texas	5.45	5.07	-6.99%
Oklahoma	5.07	4.61	-9.07%

# 2020 Update on Kansas Electric Rates (Residential) <sup>6</sup>

- In 2020, Kansas' average electric rate for Residential Customers increased 1.08%

## 2020 Average Rate per kWh - Residential

State	2019 Average Price (cents/kWh)	2020 Average Price (cents/kWh)	2020/2019 Change
Minnesota	13.04	13.17	0.99%
<b>U.S. Total</b>	<b>13.01</b>	<b>13.15</b>	<b>1.05%</b>
<b>Kansas</b>	<b>12.71</b>	<b>12.85</b>	<b>1.08%</b>
Iowa	12.46	12.46	0.01%
Colorado	12.18	12.36	1.52%
South Dakota	11.55	11.75	1.70%
Texas	11.76	11.71	-0.44%
Missouri	11.14	11.22	0.73%
North Dakota	10.30	10.44	1.35%
Arkansas	9.80	10.41	6.28%
Oklahoma	10.21	10.12	-0.85%

# Kansas Residential Monthly Bill Data

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- In 2020, Kansas Residential Monthly Electric Bills increased 0.23%, from \$113.26/month to \$113.52/month.

## 2020 Average Monthly Bill- Residential

State	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)	Monthly Bill Rank
Texas	1,132	11.71	132.59	1
South Dakota	1,037	11.75	121.77	2
<b>U.S. Total</b>	<b>893</b>	<b>13.15</b>	<b>117.46</b>	<b>3</b>
Missouri	1,028	11.22	115.35	4
<b>Kansas</b>	<b>883</b>	<b>12.85</b>	<b>113.52</b>	<b>5</b>
North Dakota	1,085	10.44	113.26	6
Arkansas	1,060	10.41	110.33	7
Oklahoma	1,078	10.12	109.07	8
Iowa	865	12.46	107.78	9
Minnesota	775	13.17	102.11	10
Colorado	711	12.36	87.88	11

# Residential Monthly Bill Data—

## Evergy

- Evergy's Monthly Bill data (from EIA) for residential customers shows that customer bills have grown less than inflation (CPI) over the last ten years

### Evergy Residential Customer Average Monthly Bill

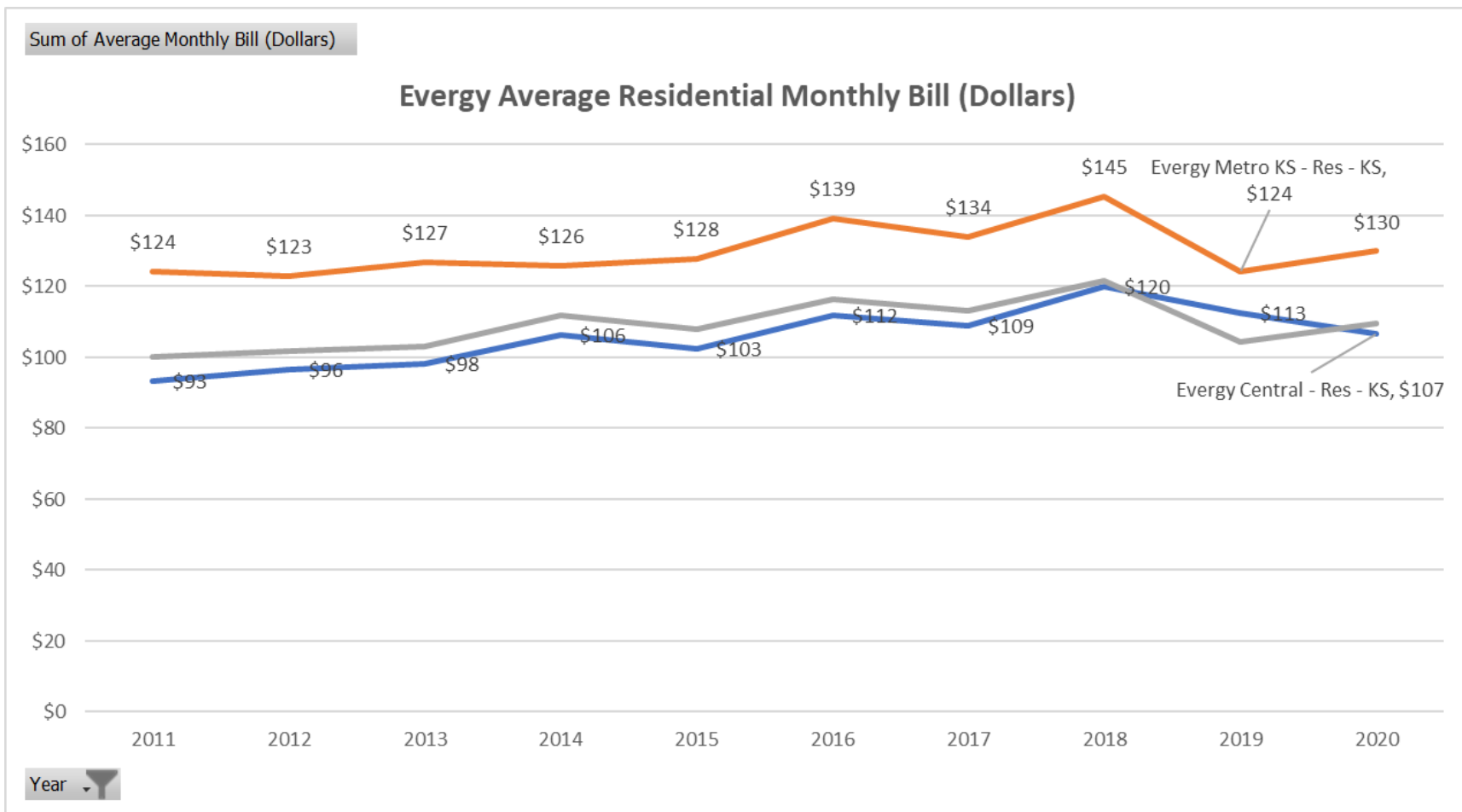
Year	Evergy Kansas Metro	Evergy Kansas North	Evergy Kansas South	Combined Evergy Kansas Central
2011	\$ 124.30	\$ 93.30	\$ 99.99	\$ 96.45
2012	\$ 123.04	\$ 96.46	\$ 101.85	\$ 99.00
2013	\$ 126.84	\$ 98.20	\$ 103.20	\$ 100.55
2014	\$ 125.84	\$ 106.29	\$ 111.92	\$ 108.94
2015	\$ 127.95	\$ 102.57	\$ 107.99	\$ 105.12
2016	\$ 139.16	\$ 111.90	\$ 116.41	\$ 114.02
2017	\$ 134.01	\$ 108.89	\$ 113.19	\$ 110.91
2018	\$ 145.39	\$ 120.07	\$ 121.70	\$ 120.84
2019	\$ 124.32	\$ 112.66	\$ 104.41	\$ 108.78
2020	\$ 129.92	\$ 106.51	\$ 109.73	\$ 108.02
10-YR CAGR	0.49%	1.48%	1.04%	1.27%
10-YR Growth	4.53%	14.16%	9.74%	12.00%



# Residential Monthly Bill Data—

## Evergy

- Evergy's Monthly Bill data (from EIA) for residential customers shows that customer bills have grown less than inflation (CPI) over the last ten years



The average residential, industrial, and commercial electricity rate for each Investor Owned Utility operating in these states, as reported by the EIA.

## Full List Attached

### Residential—

- Evergy Kansas Central (EKC) ranks 11<sup>th</sup> in rates, 16<sup>th</sup> in bills out of 38 utilities. (1<sup>st</sup> being highest). Rates are 10.24% higher, Bills 7.12% higher (than average outside Kansas).
- Evergy Kansas Metro (EKM) ranks 9<sup>th</sup> in rates, 2<sup>nd</sup> in bills out of 38 utilities. Rates are 13.81% higher, Bills 28.84% higher.

### Commercial—

- EKC ranks 15<sup>th</sup> in rates, 6.88% higher than average outside Kansas.
- EKM ranks 10<sup>th</sup> in rates, 11.39% higher than average outside Kansas.

### Industrial—

- EKC ranks 14<sup>th</sup> in rates, 12.48% higher than average outside Kansas.
- EKM ranks 2<sup>nd</sup> in rates, 45.46% higher than average outside Kansas.

The statewide average electricity rate for Cooperative Utilities in each of the states, presented for residential, commercial, and industrial customers as reported by the EIA.

### 2020 Average Rate per kWh -Cooperatives

State	Residential Average Price (cents/kWh)	Commercial Average Price (cents/kWh)	Industrial Average Price (cents/kWh)
Colorado	14.29	12.59	9.90
Minnesota	12.95	11.05	9.12
<b>Kansas</b>	<b>12.82</b>	<b>12.18</b>	<b>8.80</b>
Iowa	12.47	10.86	8.18
South Dakota	12.07	11.11	9.46
Oklahoma	11.97	11.01	6.94
<b>U.S. Total</b>	<b>11.81</b>	<b>10.74</b>	<b>6.78</b>
Missouri	11.40	10.35	7.80
Texas	11.36	10.20	7.24
Arkansas	10.78	10.05	7.95
North Dakota	10.09	11.31	8.24
Avg. Outside Kansas	11.93	10.95	8.31

The statewide average electricity rate for Municipal Utilities in each of the states, presented for residential, commercial, and industrial customers are reported by the EIA.

<b>2020 Average Rate per kWh -Municipals</b>			
<b>State</b>	<b>Residential Average Price (cents/kWh)</b>	<b>Commercial Average Price (cents/kWh)</b>	<b>Industrial Average Price (cents/kWh)</b>
North Dakota	N/A	N/A	N/A
Minnesota	12.76	11.19	8.68
Iowa	12.32	9.69	7.55
Oklahoma	12.03	10.01	7.16
<b>U.S. Total</b>	<b>11.85</b>	<b>11.02</b>	<b>7.73</b>
<b>Kansas</b>	<b>11.08</b>	<b>9.26</b>	<b>6.54</b>
South Dakota	10.86	10.65	8.08
Texas	10.85	9.61	6.87
Missouri	10.67	9.86	8.25
Colorado	10.33	9.37	7.46
Arkansas	9.06	8.58	6.65
<b>Avg. Outside Kansas</b>	<b>11.11</b>	<b>9.87</b>	<b>7.59</b>

# Questions??



2020 Residential Electric Rate Regional Comparison

Bill Rank	Entity	State	Ownership	Customer		Revenues		Average Price (cents/kWh)	Average Customer Bill
				Count	Sales (MWhs)	(000's Dollars)			
1	Empire District Electric Co	MO	Investor Owned	133,019	1,644,537	\$220,751		13.42	\$138.30
2	<b>Evergy Metro</b>	<b>KS</b>	<b>Investor Owned</b>	<b>234,541</b>	<b>2,821,786</b>	<b>\$365,649</b>		<b>12.96</b>	<b>\$129.92</b>
3	Entergy Texas Inc.	TX	Investor Owned	410,753	6,145,701	\$607,907		9.89	\$123.33
4	Interstate Power and Light Co	IA	Investor Owned	407,849	3,622,771	\$601,867		16.61	\$122.98
5	Empire District Electric Co	KS	Investor Owned	8,183	103,380	\$12,003		11.61	\$122.24
6	Entergy Arkansas LLC	AR	Investor Owned	598,506	7,583,717	\$838,065		11.05	\$116.69
7	Southwestern Electric Power Co	TX	Investor Owned	152,519	2,073,543	\$213,408		10.29	\$116.60
8	Evergy Missouri West	MO	Investor Owned	291,923	3,561,621	\$402,217		11.29	\$114.82
9	Empire District Electric Co	OK	Investor Owned	3,801	48,821	\$5,093		10.43	\$111.65
10	Amana Society Service Co	IA	Investor Owned	710	7,195	\$951		13.22	\$111.62
11	Evergy Metro	MO	Investor Owned	262,729	2,608,047	\$350,024		13.42	\$111.02
12	Otter Tail Power Co	SD	Investor Owned	8,858	118,203	\$11,754		9.94	\$110.57
13	Empire District Electric Co	AR	Investor Owned	4,121	43,465	\$5,438		12.51	\$109.97
14	Evergy Kansas South, Inc	KS	Investor Owned	293,297	3,087,234	\$386,212		12.51	\$109.73
15	NorthWestern Energy	SD	Investor Owned	50,646	583,357	\$66,509		11.40	\$109.43
16	<b>Combined Evergy Kanas Central (N&amp;S)</b>	<b>KS</b>	<b>Investor Owned</b>	<b>628,556</b>	<b>6,491,132</b>	<b>\$814,700</b>		<b>12.55</b>	<b>\$108.01</b>
17	Union Electric Co	MO	Investor Owned	1,071,999	13,250,393	\$1,371,554		10.35	\$106.62
18	Otter Tail Power Co	ND	Investor Owned	45,673	602,118	\$58,408		9.70	\$106.57
19	Evergy Kansas Central, Inc	KS	Investor Owned	335,259	3,403,898	\$428,487		12.59	\$106.51
20	Black Hills Power, Inc.	SD	Investor Owned	57,626	537,593	\$71,895		13.37	\$103.97
21	Black Hills Colorado Electric, LLC	CO	Investor Owned	86,197	640,415	\$105,029		16.40	\$101.54
22	Public Service Co of Oklahoma	OK	Investor Owned	483,536	6,116,579	\$579,751		9.48	\$99.92
23	Southwestern Public Service Co	TX	Investor Owned	214,908	2,562,133	\$256,878		10.03	\$99.61
24	Oklahoma Gas & Electric Co	OK	Investor Owned	679,548	8,742,115	\$809,628		9.26	\$99.29
25	MidAmerican Energy Co	SD	Investor Owned	4,165	60,316	\$4,879		8.09	\$97.61
26	Montana-Dakota Utilities Co	SD	Investor Owned	6,441	67,552	\$7,460		11.04	\$96.52
27	Otter Tail Power Co	MN	Investor Owned	49,403	545,911	\$56,415		10.33	\$95.16
28	Northern States Power Co	SD	Investor Owned	84,374	802,478	\$95,715		11.93	\$94.53
29	Southwestern Electric Power Co	AR	Investor Owned	103,790	1,113,912	\$114,004		10.23	\$91.53
30	Northern States Power Co	MN	Investor Owned	1,171,591	9,033,597	\$1,241,195		13.74	\$88.28
31	Oklahoma Gas & Electric Co	AR	Investor Owned	56,820	713,946	\$59,439		8.33	\$87.17
32	El Paso Electric Co	TX	Investor Owned	297,495	2,534,390	\$305,528		12.06	\$85.58
33	MidAmerican Energy Co	IA	Investor Owned	604,126	5,986,935	\$618,793		10.34	\$85.36
34	Montana-Dakota Utilities Co	ND	Investor Owned	78,812	773,739	\$79,626		10.29	\$84.19
35	Northern States Power Co	ND	Investor Owned	81,287	779,212	\$81,239		10.43	\$83.28
36	ALLETE, Inc.	MN	Investor Owned	123,617	1,046,910	\$117,084		11.18	\$78.93
37	Public Service Co of Colorado	CO	Investor Owned	1,298,707	9,992,279	\$1,145,077		11.46	\$73.48
38	Northwestern Wisconsin Elec Co	MN	Investor Owned	73	441	\$63		14.17	\$71.35
Median Outside of Kansas								11.04	\$99.92
Average Outside Kansas								11.38	\$100.83
% Evergy Kansas Central Over Median								13.65%	8.10%
% Evergy Kansas Central Over Average								10.24%	7.12%
% Evergy Kansas Metro Over Median								17.34%	30.03%
% Evergy Kansas Metro Over Average								13.82%	28.84%

2020 Commercial Electric Rate Regional Comparison

Rank	Entity	State	Ownership	Customer Count	Sales (MWhs)	Revenues	
						(000s Dollars)	Average Price (cents/kWh)
1	Northwestern Wisconsin Elec Co	MN	Investor Owned	29	152	\$22	14.67
2	Interstate Power and Light Co	IA	Investor Owned	85,271	3,869,362	\$486,708	12.58
3	Black Hills Power, Inc.	SD	Investor Owned	13,376	738,445	\$89,693	12.15
4	Amana Society Service Co	IA	Investor Owned	179	7,950	\$948	11.92
5	Empire District Electric Co	KS	Investor Owned	1,439	54,175	\$6,416	11.84
6	Black Hills Colorado Electric, LLC	CO	Investor Owned	12,155	856,213	\$98,980	11.56
7	Empire District Electric Co	MO	Investor Owned	24,101	1,419,920	\$159,661	11.24
8	NorthWestern Energy	SD	Investor Owned	13,160	676,793	\$73,368	10.84
9	Northern States Power Co	MN	Investor Owned	141,360	12,082,902	\$1,268,029	10.49
10	Evergy Metro	KS	Investor Owned	30,205	3,087,285	\$321,046	10.40
11	ALLETE, Inc.	MN	Investor Owned	24,337	1,190,093	\$122,875	10.32
12	Evergy Metro	MO	Investor Owned	32,905	4,011,045	\$406,528	10.14
13	Evergy Kansas South, Inc	KS	Investor Owned	37,949	2,916,485	\$292,954	10.04
14	Empire District Electric Co	AR	Investor Owned	803	38,716	\$3,883	10.03
15	Combined Evergy Kansas Central (N&S)	KS	Investor Owned	87,460	6,915,819	\$690,029	9.98
16	Public Service Co of Colorado	CO	Investor Owned	218,890	12,463,353	\$1,240,861	9.96
17	Evergy Kansas Central, Inc	KS	Investor Owned	49,511	3,999,334	\$397,076	9.93
18	Montana-Dakota Utilities Co	SD	Investor Owned	2,052	66,771	\$6,557	9.82
19	Northern States Power Co	SD	Investor Owned	12,528	972,326	\$92,956	9.56
20	Empire District Electric Co	OK	Investor Owned	918	53,084	\$4,968	9.36
21	Northern States Power Co	ND	Investor Owned	13,200	1,006,315	\$93,725	9.31
22	Montana-Dakota Utilities Co	ND	Investor Owned	14,348	1,033,823	\$94,705	9.16
23	El Paso Electric Co	TX	Investor Owned	37,864	2,952,057	\$263,265	8.92
24	Evergy Missouri West	MO	Investor Owned	39,801	3,111,552	\$273,407	8.79
25	Entergy Arkansas LLC	AR	Investor Owned	96,291	5,578,749	\$482,495	8.65
26	Otter Tail Power Co	MN	Investor Owned	13,051	1,032,208	\$88,869	8.61
27	Southwestern Electric Power Co	TX	Investor Owned	30,544	2,003,532	\$169,157	8.44
28	MidAmerican Energy Co	IA	Investor Owned	98,781	4,565,657	\$371,366	8.13
29	Southwestern Electric Power Co	AR	Investor Owned	18,376	1,212,967	\$98,578	8.13
30	Union Electric Co	MO	Investor Owned	159,512	13,174,534	\$1,040,749	7.90
31	Otter Tail Power Co	ND	Investor Owned	13,613	1,115,223	\$87,957	7.89
32	Entergy Texas Inc.	TX	Investor Owned	52,318	4,646,083	\$353,076	7.60
33	MidAmerican Energy Co	SD	Investor Owned	969	57,072	\$4,108	7.20
34	Oklahoma Gas & Electric Co	OK	Investor Owned	105,868	8,405,475	\$603,198	7.18
35	Oklahoma Gas & Electric Co	AR	Investor Owned	10,996	740,117	\$52,984	7.16
36	Southwestern Public Service Co	TX	Investor Owned	57,811	3,343,412	\$230,883	6.91
37	Otter Tail Power Co	SD	Investor Owned	2,879	360,642	\$24,781	6.87
38	Public Service Co of Oklahoma	OK	Investor Owned	72,286	5,872,283	\$386,464	6.58
						Median Outside of Kansas	9.16
						Average Outside Kansas	9.34
	% Evergy Kansas Metro Over Median	13.52%				% Evergy Kansas Central Over Median	8.92%
	% Evergy Kansas Metro Over Average	11.39%				% Evergy Kansas Central Over Average	6.88%

2020 Industrial Electric Rate Regional Comparison

Count	Entity	State	Ownership	Customer		Revenues	Average Price (cents/kWh)
				Count	Sales (MWhs)	(000s Dollars)	
1	Empire District Electric Co	KS	Investor Owned	48	59,744	\$6,509	10.89
2	<b>Evergy Metro</b>	<b>KS</b>	<b>Investor Owned</b>	<b>885</b>	<b>261,050</b>	<b>\$24,881</b>	<b>9.53</b>
3	Black Hills Colorado Electric, LLC	CO	Investor Owned	55	414,999	\$37,182	8.96
4	Black Hills Power, Inc.	SD	Investor Owned	6	189,699	\$15,568	8.21
5	Montana-Dakota Utilities Co	SD	Investor Owned	8	7,517	\$609	8.10
6	Empire District Electric Co	MO	Investor Owned	275	911,077	\$73,435	8.06
7	Northern States Power Co	MN	Investor Owned	502	7,004,313	\$558,613	7.98
8	Evergy Kansas Central, Inc	KS	Investor Owned	1,191	2,064,242	\$164,330	7.96
9	Empire District Electric Co	AR	Investor Owned	9	83,149	\$6,524	7.85
10	Amana Society Service Co	IA	Investor Owned	1	70,226	\$5,453	7.76
11	Empire District Electric Co	OK	Investor Owned	11	39,933	\$3,080	7.71
12	Interstate Power and Light Co	IA	Investor Owned	1,432	6,372,272	\$487,797	7.65
13	Northern States Power Co	SD	Investor Owned	26	379,186	\$28,978	7.64
14	<b>Combined Evergy Kansas Central (N&amp;S)</b>	<b>KS</b>	<b>Investor Owned</b>	<b>4,445</b>	<b>5,241,849</b>	<b>\$386,301</b>	<b>7.37</b>
15	Northern States Power Co	ND	Investor Owned	24	342,142	\$25,170	7.36
16	NorthWestern Energy	SD	Investor Owned	63	415,340	\$30,474	7.34
17	Evergy Metro	MO	Investor Owned	914	1,433,681	\$104,192	7.27
18	Otter Tail Power Co	ND	Investor Owned	3	20,545	\$1,457	7.09
19	Evergy Kansas South, Inc	KS	Investor Owned	3,254	3,177,607	\$221,972	6.99
20	ALLETE, Inc.	MN	Investor Owned	378	5,652,942	\$394,717	6.98
21	Montana-Dakota Utilities Co	ND	Investor Owned	89	232,032	\$15,731	6.78
22	Public Service Co of Colorado	CO	Investor Owned	322	6,298,197	\$409,534	6.50
23	Southwestern Electric Power Co	AR	Investor Owned	639	1,116,464	\$72,302	6.48
24	Southwestern Electric Power Co	TX	Investor Owned	4,419	2,658,399	\$169,120	6.36
25	Union Electric Co	MO	Investor Owned	3,754	4,157,495	\$261,052	6.28
26	Evergy Missouri West	MO	Investor Owned	223	1,306,754	\$81,806	6.26
27	Entergy Arkansas LLC	AR	Investor Owned	23,481	7,585,640	\$460,449	6.07
28	Otter Tail Power Co	MN	Investor Owned	11	981,838	\$56,724	5.78
29	MidAmerican Energy Co	IA	Investor Owned	1,653	13,872,083	\$767,146	5.53
30	MidAmerican Energy Co	SD	Investor Owned	22	133,746	\$6,744	5.04
31	Oklahoma Gas & Electric Co	AR	Investor Owned	409	988,763	\$49,807	5.04
32	Entergy Texas Inc.	TX	Investor Owned	5,678	7,884,794	\$369,344	4.68
33	El Paso Electric Co	TX	Investor Owned	39	907,045	\$42,278	4.66
34	Oklahoma Gas & Electric Co	OK	Investor Owned	9,372	7,442,630	\$319,753	4.30
35	Public Service Co of Oklahoma	OK	Investor Owned	6,796	5,713,383	\$221,250	3.87
36	Southwestern Public Service Co	TX	Investor Owned	150	7,381,412	\$260,270	3.53
						Median Outside Kansas	6.78
						Average Outside Kansas	6.55
	% Evergy Kansas Metro Over Median	40.58%				% Evergy Kansas Central Over Median	8.70%
	% Evergy Kansas Metro Over Average	45.47%				% Evergy Kansas Central Over Average	12.48%