

The Brattle Group Confidential

Summary of Residential Three-Part Tariffs

#	Utility	Utility Ownership	State	Residential Customers Served	Fixed charge (\$/month)	Demand Charge (\$/kW-month)		Timing of demand measurement	Demand interval	Combined with Energy TOU?	Applicable Residential Customer	Mandatory or Voluntary
						Summer	Winter					
[1]	Alabama Power	Investor Owned	AL	1,262,752	14.50	1.50	1.50	Any time	15 min	Yes	All	Voluntary
[2]	Alaska Electric Light and Power	Investor Owned	AK	14,466	11.13	6.51	10.76	Any time	Unknown	No	All	Voluntary
[3]	Albemarle Electric Membership Corp	Cooperative	NC	11,545	27.00	13.50	13.50	Peak Coincident	15 min	Yes	All	Voluntary
[4]	Alliant Energy (IPL)	Investor Owned	IA	402,199	11.50	17.40	11.62	Peak Coincident	60 min	Yes	All	Voluntary
[5]	Alliant Energy (WPL)	Investor Owned	WI	405,804	15.04	3.00	3.00	Peak Coincident	60 min	Yes	All	Voluntary
[6]	Arizona Public Service	Investor Owned	AZ	1,061,814	13.02	8.40	8.40	Peak Coincident	60 min	Yes	All	Voluntary
[7]	Arizona Public Service	Investor Owned	AZ	1,061,814	13.02	17.44	12.24	Peak Coincident	60 min	Yes	All	Voluntary
[8]	Black Hills Power	Investor Owned	SD	55,637	13.00	8.10	8.10	Any time	15 min	No	All	Voluntary
[9]	Black Hills Power	Investor Owned	WY	2,063	15.50	8.25	8.25	Any time	15 min	No	All	Voluntary
[10]	Butler Rural Electric Cooperative	Cooperative	KS	6,585	31.00	5.10	5.10	Peak Coincident	60 min	No	All	Mandatory
[11]	Butte Electric Cooperative	Cooperative	SD	4,910	45.00	9.50	9.50	Unknown	Unknown	No	All	Voluntary
[12]	Carteret-Craven Electric Cooperative	Cooperative	NC	35,805	30.00	11.95	9.95	Peak Coincident	15 min	No	All	Voluntary
[13]	Central Electric Membership Corp	Cooperative	NC	20,026	34.00	8.55	7.50	Peak Coincident	15 min	Yes	All	Voluntary
[14]	City of Fort Collins Utilities	Municipal	CO	62,770	6.16	2.60	2.60	Any time	Unknown	No	All	Voluntary
[15]	City of Glasgow	Municipal	KY	5,456	24.16	11.86	10.87	Peak Coincident	30 min	Yes	All	Voluntary
[16]	City of Kinston	Municipal	NC	9,702	14.95	9.35	9.35	Peak Coincident	15 min	No	All	Voluntary
[17]	City of Longmont	Municipal	CO	35,721	16.60	5.75	5.75	Any time	15 min	No	All	Voluntary
[18]	City of Templeton	Municipal	MA	3,500	3.00	8.00	8.00	Any time	15 min	No	All*	Mandatory
[19]	Cobb Electric Membership Corporation	Cooperative	GA	182,132	28.00	5.55	5.55	Peak Coincident	60 min	No	All	Voluntary
[20]	Dakota Electric Association	Cooperative	MN	96,982	12.00	14.70	11.10	Any time	15 min	No	All	Voluntary
[21]	Dominion Energy	Investor Owned	NC	102,079	16.39	9.76	5.66	Peak Coincident	30 min	Yes	All	Voluntary
[22]	Dominion Energy	Investor Owned	VA	2,173,471	11.53	5.46	3.79	Peak Coincident	30 min	Yes	All	Voluntary
[23]	Duke Energy Carolinas, LLC	Investor Owned	NC	1,669,923	14.00	7.83	3.92	Peak Coincident	30 min	Yes	All	Voluntary
[24]	Duke Energy Carolinas, LLC	Investor Owned	SC	478,509	9.93	8.15	4.00	Peak Coincident	30 min	Yes	All	Voluntary
[25]	Edgecombe-Martin County EMC	Cooperative	NC	10,369	31.00	8.75	8.00	Peak Coincident	Unknown	No	All	Voluntary
[26]	Flathead Electric Cooperative	Cooperative	MT	53,896	23.71	0.26	0.26	Peak Coincident	60 min	No	All	Mandatory
[27]	Fort Morgan	Municipal	CO	4,989	8.17	10.22	10.22	Unknown	Unknown	No	All	Voluntary
[28]	Georgia Power	Investor Owned	GA	2,144,447	10.00	6.64	6.64	Any time	30 min	Yes	All	Voluntary
[29]	Kentucky Utilities Company	Investor Owned	KY	426,225	12.25	7.87	7.87	Peak Coincident	15 min	No	All	Voluntary
[30]	Lakeland Electric	Municipal	FL	105,937	9.50	5.60	5.60	Peak Coincident	30 min	No	All	Voluntary
[31]	Lincoln Electric Cooperative	Cooperative	MT	5,056	39.39	0.75	0.75	Any time	15 min	No	All	Voluntary
[32]	Louisville Gas and Electric	Investor Owned	KY	356,424	12.25	7.68	7.68	Peak Coincident	15 min	No	All	Voluntary
[33]	Loveland Electric	Municipal	CO	31,458	23.50	9.80	7.35	Any time	15 min	No	All	Voluntary
[34]	Mid-Carolina Electric Cooperative	Cooperative	SC	48,265	24.00	12.00	12.00	Peak Coincident	60 min	No	All	Mandatory
[35]	Midwest Energy Inc	Cooperative	KS	29,976	22.00	6.40	6.40	Any time	15 min	No	All	Voluntary
[36]	NV Energy (SPP)	Investor Owned	NV	291,401	10.25	0.35 (daily)	0.35 (daily)	Peak Coincident	15 min	No	All	Voluntary
[37]	NV Energy (SPP)	Investor Owned	NV	291,401	15.25	0.26 (daily)	0.93 (daily)	Peak Coincident	15 min	Yes	All	Voluntary
[38]	Oklahoma Gas and Electric Company	Investor Owned	AR	55,190	9.75	1.00	1.00	Any time	15 min	No	All	Voluntary
[39]	Otter Tail Power Company	Investor Owned	MN	48,186	11.00	8.00	8.00	Any time	60 min	No	All	Voluntary
[40]	Otter Tail Power Company	Investor Owned	ND	45,790	18.38	6.52	2.63	Any time	60 min	No	All	Voluntary
[41]	Otter Tail Power Company	Investor Owned	SD	8,710	13.00	7.05	5.93	Any time	60 min	No	All	Voluntary
[42]	PacifiCorp	Investor Owned	OR	498,227	13.30	2.20	2.20	Unknown	Unknown	No	All	Voluntary
[43]	Pee Dee Electric Membership Cooperative	Cooperative	SC	28,754	34.40	8.50	7.00	Peak Coincident	Unknown	Yes	All	Voluntary
[44]	Platte-Clay Electric Cooperative	Cooperative	MO	21,070	25.38	2.50	2.50	Peak Coincident	60 min	No	All	Mandatory
[45]	Progress Energy Carolinas	Investor Owned	NC	1,162,473	16.85	4.88	3.90	Peak Coincident	15 min	Yes	All	Voluntary
[46]	Progress Energy Carolinas	Investor Owned	SC	136,294	11.91	5.38	4.14	Peak Coincident	15 min	Yes	All	Voluntary
[47]	Salt River Project	Political Subdivision	AZ	928,721	32.44	11.13	4.54	Peak Coincident	30 min	Yes	NEM Only	Voluntary
[48]	Salt River Project	Political Subdivision	AZ	928,721	32.44	21.94	8.13	Peak Coincident	30 min*	Yes	NEM Only	Voluntary
[49]	Santee Cooper Electric Cooperative	Cooperative	SC	32,829	50.00	6.00	6.00	Peak Coincident	30 min	Yes	NEM only	Mandatory
[50]	Smithfield	Municipal	NC	3,400	17.00	5.93	5.93	Peak Coincident	15 min	Yes	All	Voluntary
[51]	South Carolina Electric & Gas Company	Investor Owned	SC	605,717	14.00	12.04	8.60	Peak Coincident	15 min	Yes	All	Voluntary
[52]	Sun River Electric Cooperative	Cooperative	MT	4,460	32.00	4.00	4.00	Unknown	Unknown	No	All	Mandatory
[53]	Swanton Village Electric Department	Municipal	VT	3,236	11.33	9.17	9.17	Any time	15 min	No	All*	Mandatory
[54]	Tideland Electric Member Corp	Cooperative	NC	18,540	31.00	10.35	9.40	Peak Coincident	15 min	No	All	Voluntary
[55]	Tri-County Electric Cooperative	Cooperative	FL	16,131	23.00	7.00	7.00	Any time	15 min	No	All	Voluntary
[56]	Traverse Electric Cooperative, Inc.	Cooperative	MN	1,819	76.00	18.65	18.65	Peak Coincident	Unknown	No	All	Voluntary
[57]	Tucson Electric Power	Investor Owned	AZ	378,992	10.00	8.85	8.85	Peak Coincident	60 min	Yes	All	Voluntary
[58]	Tucson Electric Power	Investor Owned	AZ	378,992	10.00	8.85	8.85	Peak Coincident	60 min	No	All	Voluntary
[59]	Vigilante Electric Cooperative	Cooperative	MT	8,273	26.00	0.50 per KVA	0.50 per KVA	Any time	Unknown	No	All*	Mandatory
[60]	Westar Energy	Investor Owned	KS	327,214	16.50	6.91	2.13	Any time	30 min	No	All	Voluntary
[61]	Xcel Energy (PSCo)	Investor Owned	CO	1,228,305	19.31	10.08	7.76	Any time	15 min	No	All	Voluntary
[62]	Xcel Energy (PSCo)	Investor Owned	CO	1,228,305	6.54	13.38	10.46	Peak Coincident	60 min	No	All	Voluntary

Sources: Utility tariffs as of September 2018, and EIA Form 861 from 2016 (for Utility ownership and Residential Customers Served columns).

Notes:

- For some utilities, the monthly fixed charge has been calculated by multiplying a daily charge by 30.5.
- When the utility offered different basic service charges for single-phase and three-phase services, the single-phase service charge was selected.
- [2]: Mandatory if customer consumes more than 5,000 kWh per month for three consecutive months or has a recorded peak demand of 20 kW for three consecutive months.
- [4]: Only offered on a pilot basis. The billing demand is the sum of the highest hourly demand during on-peak hours of the current month plus 50% of the amount by which the highest hourly demand during the off-peak hours exceeds the highest on-peak demand.
- [6]-[7]: The monthly fixed charge is a daily basic service charge multiplied by 30.5 days.
- [8]-[9]: Black Hills also offers an optional time-of-use rate that includes both energy and demand charges for customers owning demand controllers.
- [12]: *The demand charge only applies to demand measured in excess of 10 kW.
- [22]: Demand charge is the sum of the distribution demand charge and the generation demand charge. The distribution demand charge is \$1.549/kW and the generation demand charge is \$3.910/kW for the summer and \$2.242/kW for the winter.
- [33]: The demand rate is closed to new customers after December 31, 2014.
- [35]: The demand charge is based on the greater of the highest average 15 minute kW demand measured during the period for which the bill is rendered, and 80% of the average 15 minute maximum demand for the last three summer months.
- [36]-[37]: Rates will be in place starting October 1, 2018. The billing demand is calculated as the sum of the customer's daily 15-min maximum demand during the billing period.
- [39]-[41]: Demand is measured as the maximum winter demand for the most recent 12 months. New customers have an assumed demand of 3 kW for their first year. Fixed charge for MN is customer charge per month plus facilities charge per month. Fixed charge for ND and SD is just customer charge per month.
- [42]: The demand charge is only applicable to three-phase customers.
- [44]: Billing demand is the greater of the current month actual demand or 50% of peak demand established in the preceding eleven months.
- [47]: Customers below 200 amps pay a fixed charge of \$32.44 per month and customers above 200 amps pay \$45.44 per month. Demand charges vary across three seasons: Winter, Summer (May, June, September, and October), and On-Peak Summer (July and August). The summer demand charges shown here apply for the On-Peak Summer period. The (on-peak) summer demand charge is \$7.89 for up to 3kW of demand, \$14.37 for the next 7kW, and \$27.28 for over 10kW. The winter demand charge is \$3.49 for up to 3kW, \$5.58 for the next 7kW, and \$9.57 over 10kW.
- [48]: Customers below 200 amps pay a fixed charge of \$32.44 per month and customers above 200 amps pay \$45.44 per month. Demand charges vary across three seasons: Winter, Summer (May, June, September, and October), and On-Peak Summer (July and August). The summer demand charges shown here apply for the On-Peak Summer period. The Summer period demand charge is \$19.29/kW. *The billing demand in each billing cycle is the average of the daily maximum 30-min integrated kW demands occurring during the on-peak periods of that billing cycle.
- [53]: The demand charge is based on the greater of the measured demand for the current month and 85% of the highest recorded demand established during the preceding eleven months. *The rate is mandatory for all residential customers with monthly consumption equal to or greater than 1,800 kWh, measured on a rolling 12 month average basis.
- [54]: The basic service charge is calculated as the average of the overhead service charge (\$30/month) and the underground service charge (\$32/month).
- [57]-[58]: The demand charge is \$8.85/kW for the first 7kW and \$12.85/kW for any additional kW's.
- [59]: *The demand charge applies only to KVA greater than 15 KVA.
- [60]: Not available to new customers since 2006.
- [61]: Xcel Energy Residential Demand Service (Schedule RD).
- [62]: Xcel Energy Residential Demand-Time Differentiated Rates Service (Schedule RD-TDR).