

**ELKHORN RURAL PUBLIC POWER DISTRICT****POLICY #3141****ELECTRIC LINE EXTENSION****I. Objectives:**

To provide a method by which Elkhorn Rural Public Power District will extend electric lines and facilities to serve Applicants that have made a written application for electric service within the ERPPD retail service area.

**II. Policy Content:**

- A. In the event that upgrading, construction, or extension of facilities is required to provide service to the Applicant, ERPPD will furnish the facilities required but at a cost not to exceed the allowable construction credit for the applicable service classification, unless the Applicant makes an aid-to-construction contribution before work on the service extensions begins in an amount determined by ERPPD.
- B. For Commercial/Industrial customers at ERPPD's sole discretion, ERPPD may require up to the full allowable contribution to be paid upfront by customer and the allowable contribution credited back up to the maximum of three years based on actual customer's usage. The credit will not exceed the total cost of construction paid by customer.
- C. The estimated construction investment will include only the non-betterment costs to the ERPPD system to provide service to the Applicant. The estimated construction investment shall include the costs of materials, equipment, engineering and labor, including administration overheads, fringe benefits, and the costs of service transformers and metering equipment, needed to complete the applied for service extension and excludes the costs of replacement or addition of facilities solely for the benefit and at the election of ERPPD.
- D. Where the estimated construction investment exceeds the established allowable construction credit, ERPPD will receive from the Applicant an "Aid-To-Construction" contribution. The Aid-To-Construction contribution will be determined as the monetary difference of the non-betterment portion of the estimated construction investment less the allowable construction credit established by this policy.

E. The allowable construction credits established by this policy are:

- a) Costs in excess of the amounts listed below are subject to an in Aid-To-Construction contribution.

Rate Class	2015 ERPPD Contribution	Basis
Farm, Res & Com, 1-Phase (1, 3 - 2, 3)	\$ 1,430	Customer
Farm, Res & Com, 1-Phase (1, 3 - 2, 3) Electric	2,175	Customer
Farm and Residential, 3-Phase (5, 4 - 6, 4)	3,278	Customer
Farm and Residential, 3-Phase (5, 4 - 6, 4) Electric	4,023	Customer
Residential, 1-Phase (21, 22, 23)	1,118	Customer
Residential, All Electric, 1-Phase	1,768	Customer
Stock wells	225	Customer
Cabins	520	Customer
Irrigation	61.00	Horsepower
Commercial	0.092	Projected Annual kWh's
Demand Metered Customers	27.25	Projected Annual kW Demand

***\*Line extension amounts for grain bins – please see Appendix One***

- b) Customers who make connections under this policy are required to sign a three (3) year continuous service contract with ERPPD. Customers are allowed to change rates during the three year period with approval of the General Manager. If the Customer discontinues service or requests a rate change before the end of the service contract, ERPPD may assess a charge equal to the difference between the amount of time serviced under the rate and the remaining time on the contract.

For Example: If the initial cost of connection was \$1,500, and a customer disconnected after two years, the following charge may be assessed:

$$1/3 \text{ times } 1,500. = \$500 \text{ charge to the customer.}$$

- c) The commercial and industrial connection policy does not apply to loads in excess of 1,000 kW. A case-by-case analysis will be completed to determine the anticipated contribution margins from customers in excess of 1,000 kW. The analysis will be adjusted to reflect load factors and other characteristics that may affect the overall margins of Elkhorn Rural Public Power District. The contribution made by ERPPD will not exceed the full cost of the line extension.

- d) Customers with an existing service who are requesting an upgrade of the facilities to serve additional load, ERPPD will contribute the following amounts based on the additional (new) load.  
(Amount times the estimated annual usage of new load)

Rate Class	Maximum Contribution	Basis
Farm, Res & Com, 1-Phase (1, 3 - 2, 3)	0.130	Per Estimated Annual kWh's
Farm, Res & Com, 1-Phase (1, 3 - 2, 3) Electric	0.131	Per Estimated Annual kWh's
Farm & Residential - Additional if all electric	0.107	Per Estimated Annual kWh's
Residential, 1-Phase (21, 22, 23)	0.124	Per Estimated Annual kWh's
Residential - Additional if all electric	0.130	Per Estimated Annual kWh's
Stock wells	0.451	Per Estimated Annual kWh's
Cabins	0.130	Per Estimated Annual kWh's
Irrigation	61.00	Horsepower
Commercial	0.092	Per Estimated Annual kWh's
Demand Metered Customers	27.25	Projected Annual kW Demand

- e) ERPPD will construct facilities up to the metering point of the customer. Construction of facilities beyond the metering point is the responsibility of the customer.
- f) If an Applicant load is anticipated to vary substantially from the class averages the following alternative calculation may be used at the discretion of ERPPD. (Amount times estimated annual usage)

Rate Class	Maximum Contribution	Basis
Farm, Res & Com, 1-Phase (1, 3 - 2, 3)	0.130	Per Estimated Annual kWh's
Farm, Res & Com, 1-Phase (1, 3 - 2, 3) Electric	0.131	Per Estimated Annual kWh's
Farm & Residential - Additional if all electric	0.107	Per Estimated Annual kWh's
Residential, 1-Phase (21, 22, 23)	0.124	Per Estimated Annual kWh's
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Demand Metered Customers	27.25	Projected Annual kW Demand

### III. Responsibility

- A. The Manager shall be responsible for the administration of this policy and will request board approval for any line extension that exceeds \$120,000.
- B. The Board of Directors of the Elkhorn Rural Public Power District shall be responsible for the annual review of this Policy to determine if it meets the objectives of ERPPD.

Adopted: January 10, 2006  
Revised: July 8, 2008  
Revised: October 14, 2008  
Revised: April 14, 2009  
Revised: January 12, 2010  
Revised: February 12, 2013  
Revised: May 14, 2013  
Revised: January 13, 2015

### Appendix One – Grain Bins

Motor kWh Use Estimate (based on volts x amps x phase) Single Phase Motors								
Motor size	Motor amps 115 V	Motor amps 230V	kWh	kWh/day	kWh/month	Cost/Day	Cost/mo.	Allowable Investment
1/4	5.8	2.9	0.667	16	480	\$1.67	\$50.21	\$37.66
1/3	7.2	3.6	0.828	20	596	\$2.09	\$62.76	\$47.07
1/2	9.8	4.9	1.127	27	811	\$2.82	\$84.73	\$63.54
3/4	13.8	6.9	1.587	38	1143	\$3.97	\$119.24	\$89.43
1	16	8	1.84	44	1325	\$4.60	\$138.07	\$103.55
1 1/2	20	10	2.3	55	1656	\$5.75	\$172.59	\$129.44
2	24	12	2.76	66	1987	\$6.90	\$207.11	\$155.33
3	34	17	3.91	94	2815	\$9.83	\$294.97	\$221.23
5	56	28	6.44	155	4637	\$16.21	\$486.39	\$364.79
7.5	80	40	9.2	221	6624	\$23.12	\$693.50	\$520.12
10		50	11.5	276	8280	\$28.87	\$866.09	\$649.57
15		75	17.25	414	12420	\$43.30	\$1,299.13	\$974.35
For Three Phase Motors								
Motor size	Motor amps 230V	Motor amps 460V	kWh	kWh/day	kWh/month	Cost/day	Cost/mo	Allowable
1/2	2	1	0.8	19	570	\$1.99	\$59.62	\$44.72
3/4	2.8	1.4	1.12	27	810	\$2.82	\$84.73	\$63.54
1	3.6	1.8	1.43	34	1020	\$3.56	\$106.69	\$80.02
1 1/2	5.2	2.6	2.07	50	1500	\$5.23	\$156.90	\$117.68
2	6.8	3.4	2.71	65	1950	\$6.80	\$203.97	\$152.98
3	9.6	4.8	3.82	92	2760	\$9.62	\$288.70	\$216.52
5	15.2	7.6	6.06	145	4350	\$15.17	\$455.01	\$341.26
7 1/2	22	11	8.76	210	6300	\$21.97	\$658.98	\$494.24
10	28	14	11.5	268	8040	\$28.03	\$840.98	\$630.74
15	42	21	16.73	402	12060	\$42.05	\$1,261.48	\$946.11
20	54	27	21.51	516	15480	\$53.97	\$1,619.21	\$1,214.41
25	68	34	27.09	650	19500	\$67.99	\$2,039.70	\$1,529.78
30	80	40	31.87	765	22950	\$80.02	\$2,400.57	\$1,800.43
40	104	52	41.43	994	29820	\$103.97	\$3,119.17	\$2,339.38
50	130	65	51.79	1243	37290	\$130.02	\$3,900.53	\$2,925.40
60	154	77	61.35	1472	44160	\$153.97	\$4,619.14	\$3,464.35
75	192	96	76.49	1836	55080	\$192.05	\$5,761.37	\$4,321.03
100	248	124	98.79	2371	71130	\$248.01	\$7,440.20	\$5,580.15
125	312	156	124.29	2983	89490	\$312.02	\$9,360.65	\$7,020.49
150	360	180	143.41	3442	103260	\$360.03	\$10,801.00	\$8,100.75
200	480	240	191.21	4589	137670	\$480.01	\$14,400.28	\$10,800.21
Note:	The above calculations do not take motor efficiency into the kWh formula							
	All kWh is calculated at \$0.1046 as per consultant study effective January 13, 2015							
	Allowable investment limits are calculated at a 75% monthly run time factor.							