

Dakota Valley Electric Cooperative
Three Phase Large Commercial Service (56, 356)

Date Prepared: 3/13/2017

This spreadsheet utilizes the demand & energy estimated to be used by Minn-Kota Ag service
The load factor was calculated from the provided demand & energy for each month.

Estimate Assumptions and Considerations:

- Rate is standard Three Phase Large Commercial Service
Monthly Service Charge: \$ 77.00
Demand Charge of: \$ 12.00 per kW
1st Step Energy Charge of: \$ 0.0620 per kWh
2nd Step Energy Charge of: \$ 0.0587 per kWh
Excess Energy Charge of: \$ 0.0510 per kWh
- Monthly demand and energy estimates are based on projected operation.
Transformer KVA: 1,500 kVA
Line Extension Charges: \$0.00
- Commercial Incentive Rate Discount identified in Columns R through U
Discount is applied to Demand and Energy

*Values can be modified to update the calculations below.

DATE	kW*	Calculated Load Factor	kWh*
Jan	1,056.00	40.6%	318,600
Feb	987.9	36.7%	243,600
Mar	1,025.00	31.6%	240,900
Apr	866.10	25.4%	158,400
May	843.00	27.1%	170,100
Jun	920.40	34.5%	228,600
Jul	939.40	24.8%	173,400
Aug	792.60	32.8%	193,200
Sep	1,111.80	26.8%	214,200
Oct	1,111.80	25.9%	214,200
Nov	1,110.00	43.2%	345,300
Dec	1,109.70	41.9%	345,900

	Monthly Demand	Monthly Energy	Load Factor	Charge for Demand	Charge for Total Energy	Basic Service Charge	Transformer Capacity Charge	Other Charges or Discounts	Total Charges	Cost per kWh	Year 1-4 Incentive Rate Discount	Year 5-6 Incentive Rate Discount	Year 7-8 Incentive Rate Discount	Year 9 Incentive Rate Discount
January	1,056.00	318,600	40.6%	\$ 12,672.00	\$ 19,210.68	\$ 77.00	\$ -	\$ -	\$ 31,959.68	\$ 0.10031	\$ 3,188.27	\$ 2,550.61	\$ 1,912.96	\$ 1,275.31
February	987.90	243,600	36.7%	\$ 11,854.80	\$ 14,788.33	\$ 77.00	\$ -	\$ -	\$ 26,720.13	\$ 0.10969	\$ 2,664.31	\$ 2,131.45	\$ 1,598.59	\$ 1,065.73
March	1,025.00	240,900	31.6%	\$ 12,300.00	\$ 14,648.21	\$ 77.00	\$ -	\$ -	\$ 27,025.21	\$ 0.11218	\$ 2,694.82	\$ 2,155.86	\$ 1,616.89	\$ 1,077.93
April	866.10	158,400	25.4%	\$ 10,393.20	\$ 9,726.80	\$ 77.00	\$ -	\$ -	\$ 20,197.00	\$ 0.12751	\$ 2,012.00	\$ 1,609.60	\$ 1,207.20	\$ 804.80
May	843.00	170,100	27.1%	\$ 10,116.00	\$ 10,402.16	\$ 77.00	\$ -	\$ -	\$ 20,595.16	\$ 0.12108	\$ 2,051.82	\$ 1,641.45	\$ 1,231.09	\$ 820.73
June	920.40	228,600	34.5%	\$ 11,044.80	\$ 13,874.42	\$ 77.00	\$ -	\$ -	\$ 24,996.22	\$ 0.10934	\$ 2,491.92	\$ 1,993.54	\$ 1,495.15	\$ 996.77
July	939.40	173,400	24.8%	\$ 11,272.80	\$ 10,643.58	\$ 77.00	\$ -	\$ -	\$ 21,993.38	\$ 0.12684	\$ 2,191.64	\$ 1,753.31	\$ 1,314.98	\$ 876.66
August	792.60	193,200	32.8%	\$ 9,511.20	\$ 11,733.18	\$ 77.00	\$ -	\$ -	\$ 21,321.38	\$ 0.11036	\$ 2,124.44	\$ 1,699.55	\$ 1,274.66	\$ 849.78
September	1,111.80	214,200	26.8%	\$ 13,341.60	\$ 13,123.88	\$ 77.00	\$ -	\$ -	\$ 26,542.48	\$ 0.12391	\$ 2,646.55	\$ 2,117.24	\$ 1,587.93	\$ 1,058.62
October	1,111.80	214,200	25.9%	\$ 13,341.60	\$ 13,123.88	\$ 77.00	\$ -	\$ -	\$ 26,542.48	\$ 0.12391	\$ 2,646.55	\$ 2,117.24	\$ 1,587.93	\$ 1,058.62
November	1,110.00	345,300	43.2%	\$ 13,320.00	\$ 20,723.85	\$ 77.00	\$ -	\$ -	\$ 34,120.85	\$ 0.09882	\$ 3,404.39	\$ 2,723.51	\$ 2,042.63	\$ 1,361.75
December	1,109.70	345,900	41.9%	\$ 13,316.40	\$ 20,753.61	\$ 77.00	\$ -	\$ -	\$ 34,147.01	\$ 0.09872	\$ 3,407.00	\$ 2,725.60	\$ 2,044.20	\$ 1,362.80
Totals	11,874	2,846,400	33%	\$ 142,484.40	\$ 172,752.57	\$ 924.00	\$ -	\$ -	\$ 316,160.97	\$ 0.11356	\$ 31,523.70	\$ 25,218.96	\$ 18,914.22	\$ 12,609.48
											per year	per year	per year	per year
											\$ 126,094.79	\$ 50,437.91	\$ 37,828.44	\$ 226,970.62
											4 year total	2 year total	2 year total	1 year total
											0.097373006	0.099529147	0.101685287	0.103841428
											Discounted Rate (kWh)			

