

MidAmerican Energy Company  
LED Rates

Row	Code	Description	Comparable HPS Watts	Equivalent Watts	kWh/mo	Rev. Req. Allocation from Rate Case	LED Installed Unit Cost per	Rev. Req. LED	Rev. Req. Mtce.	Energy (less EAC & TCA) \$ 0.06452	Non-wood Pole Charge	UG Circuit Charge	Total LED Rate	Tax Adjustment 2.59%	Adjusted LED Rate
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1	COL	LED-Street Colonial-Deco	100	50	18	0.00501	\$ 913.84	\$ 4.58	\$ 0.58	\$ 1.16	\$ 11.50	\$ 2.82	\$ 20.64	\$ (0.53)	\$ 20.11
2	VIC	LED-Street Victorian-Deco	100	50	18	0.00501	\$ 913.84	\$ 4.58	\$ 0.58	\$ 1.16	\$ 11.50	\$ 2.82	\$ 20.64	\$ (0.53)	\$ 20.11
3	WAS	LED-Street Washington-Deco	100	45	16	0.00501	\$ 2,165.89	\$ 10.85	\$ 0.58	\$ 1.03	\$ 11.50	\$ 2.82	\$ 26.78	\$ (0.69)	\$ 26.09
4	ELN	LED-Street Wood Pole, Overhead	400	213	75	0.00501	\$ 900.03	\$ 4.51	\$ 0.58	\$ 4.84			\$ 9.93	\$ (0.26)	\$ 9.67
5	ELD	LED-Street Non Wood Pole, Underground	400	213	75	0.00501	\$ 900.03	\$ 4.51	\$ 0.58	\$ 4.84	\$ 11.50	\$ 2.82	\$ 24.25	\$ (0.63)	\$ 23.62
6	ALA	LED-Area Wood Pole, Overhead	100	35	12	0.00501	\$ 384.27	\$ 1.93	\$ 0.58	\$ 0.77			\$ 3.28	\$ (0.08)	\$ 3.20
7	AFA	LED-Area Wood Pole, Overhead - Flood	100	34	12	0.00501	\$ 664.82	\$ 3.33	\$ 0.58	\$ 0.77			\$ 4.68	\$ (0.12)	\$ 4.56
8	ALB	LED-Area Wood Pole, Overhead	150	52	18	0.00501	\$ 403.89	\$ 2.02	\$ 0.58	\$ 1.16			\$ 3.76	\$ (0.10)	\$ 3.66
9	AFB	LED-Area Wood Pole, Overhead - Flood	150	74	26	0.00501	\$ 697.24	\$ 3.49	\$ 0.58	\$ 1.68			\$ 5.75	\$ (0.15)	\$ 5.60
10	ALC	LED-Area Wood Pole, Overhead	250	122	43	0.00501	\$ 606.34	\$ 3.04	\$ 0.58	\$ 2.77			\$ 6.39	\$ (0.17)	\$ 6.22
11	AFC	LED-Area Wood Pole, Overhead - Flood	250	150	53	0.00501	\$ 723.92	\$ 3.63	\$ 0.58	\$ 3.42			\$ 7.63	\$ (0.20)	\$ 7.43
12	ALD	LED-Area Wood Pole, Overhead	400	213	75	0.00501	\$ 858.72	\$ 4.30	\$ 0.58	\$ 4.84			\$ 9.72	\$ (0.25)	\$ 9.47
13	AFD	LED-Area Wood Pole, Overhead - Flood	400	188	66	0.00501	\$ 844.33	\$ 4.23	\$ 0.58	\$ 4.26			\$ 9.07	\$ (0.23)	\$ 8.84
14	AFE	LED-Area Wood Pole, Overhead - Flood	1000	276	96	0.00501	\$ 1,162.57	\$ 5.82	\$ 0.58	\$ 6.19			\$ 12.59	\$ (0.33)	\$ 12.26
15	CO1	LED 10-39.9 WATT - ENERGY ONLY			8.6					\$ 0.55			\$ 0.55	\$ (0.01)	\$ 0.54
16	CO2	LED 40-69.9 WATT - ENERGY ONLY			19.1					\$ 1.23			\$ 1.23	\$ (0.03)	\$ 1.20
17	CO3	LED 70-99.9 WATT - ENERGY ONLY			29.6					\$ 1.91			\$ 1.91	\$ (0.05)	\$ 1.86
18	CO4	LED 100-129.9 WATT - ENERGY ONLY			40.1					\$ 2.59			\$ 2.59	\$ (0.07)	\$ 2.52
19	CO5	LED 130-159.9 WATT - ENERGY ONLY			50.6					\$ 3.26			\$ 3.26	\$ (0.08)	\$ 3.18
20	CO6	LED 160-189.9 WATT - ENERGY ONLY			61.1					\$ 3.94			\$ 3.94	\$ (0.10)	\$ 3.84
21	CO7	LED 190-219.9 WATT - ENERGY ONLY			71.6					\$ 4.62			\$ 4.62	\$ (0.12)	\$ 4.50
22	CO8	LED 220-249.9 WATT - ENERGY ONLY			82.1					\$ 5.30			\$ 5.30	\$ (0.14)	\$ 5.16

Source:

- Columns (d) and (g), Rows 1 - 3: Tab "pricing info-decorative"
- Columns (d) and (g), Rows 4 - 14: Tab "pricing info-area&street"
- Column (e), Rows 1 - 14: Coloumn (d)/1000\*4200 (annual burn hours)/12
- Column (e), Rows 14 - 22: Average of applicable kWh from Tab "Cust-owned LED-Custom buckets"
- Column (f): See Tab "EL14-072 COS info"
- Column (h): Column (f) x Column (g)
- Column (i): See Tab "EL14-072 COS info"
- Column (j): Column (e) x \$0.06452 (Energy charge less ECA and TCR, see Tab "EL14-072 COS info")
- Column (k): See Tab "EL14-072 COS info"
- Column (l): See Tab "EL14-072 COS info"
- Column (m): Sum of Columns (h) through (l)
- Column (n): Column (m) x -2.59% (Lighting % Reduction pursuant to Settlement Stipulation in Docket No. GE-17-003, see page 2 of Exhibit B filed on 5/2/19)
- Column (o): Column (m) + Column (n)

MidAmerican Energy Company  
LED Pricing Information for Decorative Street Lighting

Based on WR2381576 REV 11/1/2020 - HEAD COST ONLY WITHOUT POLES OR UG SPAN		
<b>LED Colonial decorative street light</b>	<b>Cost</b>	<b>Wattage</b>
<b>100 W HPS Equivalent</b>	540.00	50
	540.00	50
	560.00	50
		<b>non-material cost details</b>
100 W Average	546.67	50
Stores loading on head 17.80%	97.31	Labor (2.0 man hours) \$ 105.06
photocontrol, cable, sweep, hardware (including stores loadings)	45.12	Labor Loadings \$ 70.83
non-material costs*( Labor, Fleet, labor loadings, G&A)	224.75	Fleet \$ 31.16
		G & A \$ 13.50
		ENGR \$ 4.20
<b>LED - 100 W HPS Equivalent Colonial Total</b>	<b>913.84</b>	\$ 224.75

<b>LED Victorian decorative street light</b>	<b>Cost</b>	<b>Wattage</b>	
<b>100 W HPS Equivalent</b>	540.00	50	
	540.00	50	
	560.00	50	
			<b>non-material cost details</b>
100 W Average	546.67	50	Labor (2.0 man hours) \$ 105.06
Stores loading on head 17.80%	97.31	Labor Loadings \$ 70.83	
photocontrol, cable, sweep, hardware (including stores loadings)	45.12	Fleet \$ 31.16	
non-material costs*( Labor, Fleet, labor loadings, G&A)	224.75	G & A \$ 13.50	
		ENGR \$ 4.20	
<b>LED -100 W HPS Equivalent Victorian Total</b>	<b>913.84</b>		\$ 224.75

<b>LED Washington decorative street light</b>	<b>Cost</b>	<b>Wattage</b>	
<b>100 W HPS Equivalent</b>	1,370.80	45	
	1,370.80	45	
	244.00		
	309.48		
	241.61		
			<b>non-material cost details</b>
100 W Average	1,370.80	45	Labor (2.0 man hours) \$ 105.06
Stores loading on head 17.80%	244.00	Labor Loadings \$ 70.83	
photocontrol, cable, sweep, hardware (including stores loadings)	309.48	Fleet \$ 31.16	
non-material costs*( Labor, Fleet, labor loadings, G&A)	241.61	G & A \$ 30.36	
		ENGR \$ 4.20	
<b>LED -100 W HPS Equivalent Washington Total</b>	<b>2,165.89</b>		\$ 241.61

MidAmerican Energy Company  
LED Pricing Information for Area & Street Lighting

Based on WR2381576 REV 25

8/25/2021

Area/Security HPS Equivalent	Cost	Wattage	non-material cost details	
100 W		29		
		33		
		39		
		40		
<b>100 W Average</b>		<b>35</b>	Labor (1.5 man hours)	\$ 81.68
Stores loading on head 17.80%			Labor Loadings	\$ 56.41
Light, Photocell, mast arm, wire, hardware (including stores loadings)	196.60		Fleet	\$ 25.41
non-material costs*( Labor, Fleet, labor loadings, G&A)	187.67		G & A	\$ 20.90
<b>100 W Total</b>	<b>384.27</b>		ENGR	\$ 3.27
				\$ 187.67

WR 2381576 Rev 26

Area/Security HPS Equivalent	Cost	Wattage	non-material cost details	
150 W		55		
		50		
		53		
		48		
<b>150 W Average</b>		<b>52</b>	Labor (1.5 man hours)	\$ 81.68
Stores loading on head 17.80%			Labor Loadings	\$ 56.41
Light, Photocell, mast arm, wire, hardware (including stores loadings)	215.04		Fleet	\$ 25.41
non-material costs*( Labor, Fleet, labor loadings, G&A)	188.85		G & A	\$ 22.08
<b>150W Total</b>	<b>403.89</b>		ENGR	\$ 3.27
				\$ 188.85

WR 2381576 Rev 27

Area/Security HPS Equivalent	Cost	Wattage	non-material cost details	
250 W				
250 W Average		<b>122</b>	Labor (1.5 man hours)	\$ 81.68
Stores loading on head 17.80%	-		Labor Loadings	\$ 56.41
Light, Photocell, mast arm, wire, hardware (including stores loadings)	405.34		Fleet	\$ 25.41
non-material costs*( Labor, Fleet, labor loadings, G&A)	201.00		G & A	\$ 34.23
<b>250W Total</b>	<b>606.34</b>		ENGR	\$ 3.27
				\$ 201.00

WR 2381576 Rev 24

Area/Security HPS Equivalent	Cost	Wattage	non-material cost details	
400 W				
400 W Average		<b>213</b>	Labor (1.5 man hours)	\$ 81.68
Stores loading on head 17.80%			Labor Loadings	\$ 56.41
Light, Photocell, mast arm, wire, hardware (including stores loadings)	642.58		Fleet	\$ 25.41
non-material costs*( Labor, Fleet, labor loadings, G&A)	216.14		G & A	\$ 49.37
<b>400W Total</b>	<b>858.72</b>		ENGR	\$ 3.27
				\$ 216.14

WR 2381576 Rev 29

Flood HPS Equivalent	Cost	Wattage	non-material cost details	
100 W		30		
		37		
<b>100 W Average</b>		<b>34</b>	Labor (1.5 man hours)	\$ 81.68
Stores loading on head 17.80%			Labor Loadings	\$ 56.41
Light, Photocell, mast arm, wire, hardware (including stores loadings)	460.32		Fleet	\$ 25.41
non-material costs*( Labor, Fleet, labor loadings, G&A)	204.50		G & A	\$ 37.73
<b>100 W Total</b>	<b>664.82</b>		ENGR	\$ 3.27
				\$ 204.50

MidAmerican Energy Company  
**LED Pricing Information for Area & Street Lighting**

WR 2381576 Rev 30

Flood HPS Equivalent	Cost	Wattage	
<b>150 W</b>		64	
		83	
150 W Average		<b>74</b>	
Stores loading on head 17.80%			
Light, Photocell, mast arm, wire, hardware (including stores loadings)	490.79		
non-material costs*( Labor, Fleet, labor loadings, G&A)	206.45		
<b>150 W Total</b>	<b>697.24</b>		
			<b>non-material cost details</b>
			Labor (1.5 man hours) \$ 81.68
			Labor Loadings \$ 56.41
			Fleet \$ 25.41
			G & A \$ 39.68
			ENGR \$ 3.27
			<b>\$ 206.45</b>

WR 2381576 Rev 31

Flood HPS Equivalent	Cost	Wattage	
<b>250 W</b>		146	
		154	
250 W Average		<b>150</b>	
Stores loading on head 17.80%			
Light, Photocell, mast arm, wire, hardware (including stores loadings)	515.87		
non-material costs*( Labor, Fleet, labor loadings, G&A)	208.05		
<b>250 W Total</b>	<b>723.92</b>		
			<b>non-material cost details</b>
			Labor (1.5 man hours) \$ 81.68
			Labor Loadings \$ 56.41
			Fleet \$ 25.41
			G & A \$ 41.28
			ENGR \$ 3.27
			<b>\$ 208.05</b>

WR 2381576 Rev 32

Flood HPS Equivalent	Cost	Wattage	
<b>400 W</b>		175	
		201	
400 W Average		<b>188</b>	
Stores loading on head 17.80%			
Light, Photocell, mast arm, wire, hardware (including stores loadings)	519.31		
non-material costs*( Labor, Fleet, labor loadings, G&A)	325.02		
<b>400W Total</b>	<b>844.33</b>		
			<b>non-material cost details</b>
			Labor (2.5 man hours) \$ 136.13
			Labor Loadings \$ 94.02
			Fleet \$ 42.35
			G & A \$ 47.07
			ENGR \$ 5.45
			<b>\$ 325.02</b>

WR 2381576 Rev 33

Flood HPS Equivalent	Cost	Wattage	
<b>1000 W</b>		297	
		254	
1000 W Average		<b>276</b>	
Stores loading on head 17.80%			
Light, Photocell, mast arm, wire, hardware (including stores loadings)	818.46		
non-material costs*( Labor, Fleet, labor loadings, G&A)	344.11		
<b>1000W Total</b>	<b>1,162.57</b>		
			<b>non-material cost details</b>
			Labor (2.5 man hours) \$ 136.13
			Labor Loadings \$ 94.02
			Fleet \$ 42.35
			G & A \$ 66.16
			ENGR \$ 5.45
			<b>\$ 344.11</b>

WR 2381576 Rev 28 (used CU ALLED0400G506 for cost estimate)

Street HPS Equivalent	Cost	Wattage	
<b>400 W street with 6'arm</b>			
400 W Average		<b>213</b>	
Stores loading on head 17.80%			
Light, Photocell, mast arm, wire, hardware (including stores loadings)	681.41		
non-material costs*( Labor, Fleet, labor loadings, G&A)	218.62		
<b>400W Total</b>	<b>900.03</b>		
			<b>non-material cost details</b>
			Labor (1.5 man hours) \$ 81.68
			Labor Loadings \$ 56.41
			Fleet \$ 25.41
			G & A \$ 51.85
			ENGR \$ 3.27
			<b>\$ 218.62</b>

**MidAmerican Energy Company  
Custom LED Buckets - Customer-owned**

Annual Burnhours

4,200

LED Size lamp Watts ***	Monthly KWH
10	3.50
11	3.85
12	4.20
13	4.55
14	4.90
15	5.25
16	5.60
17	5.95
18	6.30
19	6.65
20	7.00
21	7.35
22	7.70
23	8.05
24	8.40
25	8.75
26	9.10
27	9.45
28	9.80
29	10.15
30	10.50
31	10.85
32	11.20
33	11.55
34	11.90
35	12.25
36	12.60
37	12.95
38	13.30
39.9	13.97
40	14.00
41	14.35
42	14.70
43	15.05
44	15.40
45	15.75
46	16.10
47	16.45
48	16.80
49	17.15
50	17.50
51	17.85
52	18.20
53	18.55
54	18.90
55	19.25
56	19.60
57	19.95
58	20.30
59	20.65
60	21.00
61	21.35
62	21.70
63	22.05
64	22.40
65	22.75
66	23.10
67	23.45
68	23.80
69.9	24.47

**MidAmerican Energy Company  
Custom LED Buckets - Customer-owned**

Annual Burnhours

4,200

LED Size lamp Watts ***	Monthly KWH
70	24.50
71	24.85
72	25.20
73	25.55
74	25.90
75	26.25
76	26.60
77	26.95
78	27.30
79	27.65
80	28.00
81	28.35
82	28.70
83	29.05
84	29.40
85	29.75
86	30.10
87	30.45
88	30.80
89	31.15
90	31.50
91	31.85
92	32.20
93	32.55
94	32.90
95	33.25
96	33.60
97	33.95
98	34.30
99.9	34.97
100	35.00
101	35.35
102	35.70
103	36.05
104	36.40
105	36.75
106	37.10
107	37.45
108	37.80
109	38.15
110	38.50
111	38.85
112	39.20
113	39.55
114	39.90
115	40.25
116	40.60
117	40.95
118	41.30
119	41.65
120	42.00
121	42.35
122	42.70
123	43.05
124	43.40
125	43.75
126	44.10
127	44.45
128	44.80
129.9	45.47

**MidAmerican Energy Company  
Custom LED Buckets - Customer-owned**

Annual Burnhours

4,200

LED Size lamp Watts ***	Monthly KWH
130	45.50
131	45.85
132	46.20
133	46.55
134	46.90
135	47.25
136	47.60
137	47.95
138	48.30
139	48.65
140	49.00
141	49.35
142	49.70
143	50.05
144	50.40
145	50.75
146	51.10
147	51.45
148	51.80
149	52.15
150	52.50
151	52.85
152	53.20
153	53.55
154	53.90
155	54.25
156	54.60
157	54.95
158	55.30
159.9	55.97
160	56.00
161	56.35
162	56.70
163	57.05
164	57.40
165	57.75
166	58.10
167	58.45
168	58.80
169	59.15
170	59.50
171	59.85
172	60.20
173	60.55
174	60.90
175	61.25
176	61.60
177	61.95
178	62.30
179	62.65
180	63.00
181	63.35
182	63.70
183	64.05
184	64.40
185	64.75
186	65.10
187	65.45
188	65.80
189.9	66.47

**MidAmerican Energy Company  
Custom LED Buckets - Customer-owned**

Annual Burnhours

4,200

LED Size lamp Watts ***	Monthly KWH
190	66.50
191	66.85
192	67.20
193	67.55
194	67.90
195	68.25
196	68.60
197	68.95
198	69.30
199	69.65
200	70.00
201	70.35
202	70.70
203	71.05
204	71.40
205	71.75
206	72.10
207	72.45
208	72.80
209	73.15
210	73.50
211	73.85
212	74.20
213	74.55
214	74.90
215	75.25
216	75.60
217	75.95
218	76.30
219.9	76.97
220	77.00
221	77.35
222	77.70
223	78.05
224	78.40
225	78.75
226	79.10
227	79.45
228	79.80
229	80.15
230	80.50
231	80.85
232	81.20
233	81.55
234	81.90
235	82.25
236	82.60
237	82.95
238	83.30
239	83.65
240	84.00
241	84.35
242	84.70
243	85.05
244	85.40
245	85.75
246	86.10
247	86.45
248	86.80
249.9	87.47

\*\*\* Wattage base on total consumption of lamp and driver



From: EL14-072 COS MODED\_MEC - South Dakota Electric\_SETTLEMENT

**Tab: CLS1-3 (Lighting COS)**

46					
47	31	HPS life expectancy, hours		24,000	
48	32	LED life expectancy, hours		50,000	
49	33	LED maintenance factor		0.48	
50	34	Dollars per light per LED light		\$ 0.58	
51					

109	78	Wood Poles Billed Separately	\$ 538	3,164	\$ 1,702,318	\$ 2.70	
110	79	Non-Wood Poles	\$ 2,295	3,047	\$ 6,991,993	\$ 11.50	
111	80	OH Spans	\$ 515	-	\$ -	\$ 2.58	no additional charge
112	81	UG Spans	\$ 563	3,905	\$ 2,198,335	\$ 2.82	
113	82				\$ 14,625,560		Sum of Lines 58-81, Column (e)
114	83				\$ 73,280		Line 13, Column (h)
115	84				0.00501		Line 83 / Line 82
116							

132			energy	\$ 0.05576
133			ECA	\$ (0.00898)
134			TCR	\$ 0.00022
135			NET ENERGY	\$ 0.06452
136				