

Proposed Unmetered LED Rate Development

Method

- X Watts (Certified LED Luminaire Demand)
- / Divided by 1000 Watts per kW
- x Multiplied by 4160 hours of darkness per year
- = Yields the estimated annual energy in kWh estimated to be consumed by this luminaire
- x Multiplied by Metered street light rate plus average per kWh rate for fixed charges
- / Divided by 12 months
- = Yields a monthly rate per luminaire needed to cover the revenue requirements

Development of Rate

- \$ 0.05699 per kWh on file for Metered street lights
- \$ 0.03153 per kWh rate to account for fixed charges (\$5/year/average LED kWh)⁽¹⁾
- \$ 0.08852 per kWh total Average rate
- 4160 Street light operating hours per year
- 1000 Conversion factor to convert Watts to kW
- 12 Months per year
- \$ 0.0307 Monthly rate applied to Wattage of LED luminaire

Example

- 37 LED Watts certified as a replacement for a 100 Watt High Pressure Sodium lamp
- \$ 0.0307 Monthly rate to be applied to the Wattage of the luminaire
- \$ 1.14 Monthly Rate per Luminaire for this particular location (Flat rate equivalent)

(1) Fixed cost per kWh rate development				
HPS W	Units	LED W	LED kWh	\$5 / Yr / kWh
100	5,461	37	154	\$0.03248
150	64	65	270	\$0.01849
250	163	155	645	\$0.00775
400	18	244	1,015	\$0.00493
	<u>5,706</u>			<u>\$0.03153</u> Wtd Ave