

Cost Comparison for Adjusting Street Light On-Off Time

Total Burning Hours/year	4,051.65	
Total kWh/year	48,016,180.00	
Average hour on/day	11.016	
Average kWh/day	11851.018	
Off Peak Hour (ST-2)	6PM-6AM	
Peak Hour (ST-2)	6AM-6PM	
Average On time	7:14PM	*total on peak hr=15 mins =0.25 hrs
Average Off time	6:15AM	*total off peak time=646 mins =10.76 hrs
ST-2 Off Peak Rate (\$/kWh)	\$0.05471	
ST-2 On Peak Rate (\$/kWh)	\$0.28449	

Daily Usage Cost (6PM--6AM off Peak), with average 7:14PM ON, 6:15AM OFF \$7,819.33

Cost Saving per day if street light is turned off one minute EARLIER at dawn \$67.43

Turn off Street Light earlier at Dawn (Cost Saving Per Day)				
Cost Saving/Minute	Minute	Cost	Year	
\$67.43	5	\$337.15	\$123,059.61	
\$67.43	10	\$674.30	\$246,119.22	
\$67.43	15	\$1,011.45	\$369,178.82	
\$6.48	20	\$1,043.87	\$381,011.56	
\$6.48	25	\$1,076.29	\$392,844.30	
\$6.48	30	\$1,108.70	\$404,677.04	
\$6.48	35	\$1,141.12	\$416,509.78	
\$6.48	40	\$1,173.54	\$428,342.51	
\$6.48	45	\$1,205.96	\$440,175.25	

**Go to off peak rate if the time is more than 15 minutes