

# Urban Solar Difference

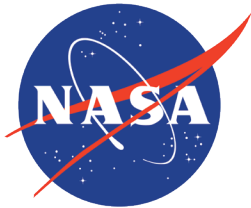
The Importance of Real Time Clock Functionality



## Urban Solar developed Real Time Clock (RTC) functionality based on the demands of our municipal clients across North America.

Cities and transit agencies requested we turn off their lights at a certain time of night to comply with municipal ordinances. They asked us for greater light output during spring, summer and fall months when more energy is available for the system. And they demanded that systems operate properly even when photocell operation failed.

### Key Benefits



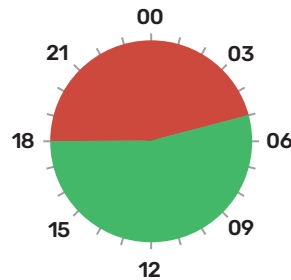
#### Proactive reliability

The Real Time Clock is a main reason that Urban Solar lighting systems are so reliable. We use two decades of site-specific solar insolation data from NASA to program monthly or seasonal profiles that use only the power we know will be available at that time of year. This keeps your lights on and avoids stressing batteries and shortening their life span.



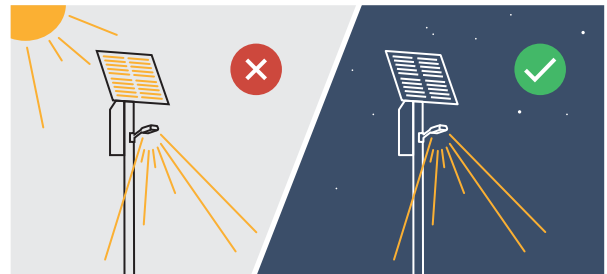
#### No wasted energy

In northern climates, the amount of sun available during the winter months is significantly reduced. Rather than limit light output to winter levels all year, our ECM operates reliably all year while offering brighter lighting during spring, summer and fall months if desired.



#### Lighting on your schedule

Unlike basic controllers that dim or turn off your lighting system after a set number of hours throughout the year, our ECM runs like a Swiss clock to comply with municipal lighting ordinances, service schedules, and access hours. Daylight savings time adjustment is automatic.



#### Eliminate false activations

When light hits a solar panel, voltage climbs and a current flows. The more solar energy hitting the panel, the higher the voltage. Photocell activation works on the principle of turning on the light below a certain panel voltage and turning it off above a certain voltage. A system using photocell activation exclusively can be fooled by a bright overhead light at night or an obscured panel during the day. Urban Solar systems always know the time, so they will never be on during the day or off during the night.

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