

## Kazekamome® Remote Hybrid System Illumination Duration

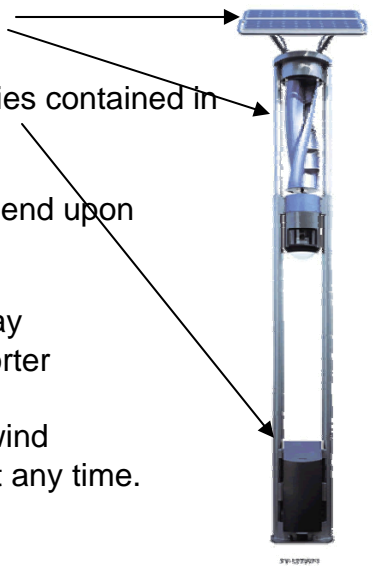


The batteries of the RHS are charged by the solar panels and wind turbine.

The light unit and/or security platform of the RHS are powered by the batteries contained in the base of the unit.

The amount of time that the batteries will power the light and/or camera depend upon several factors :

1. how many hours of daylight the unit receives
  - on the average, everywhere on earth receives 12 hours per day
  - in actuality, summer days are longer , and winter days are shorter
2. how many hours per day the wind blows, and at what speed
  - our calculations for the figures below assume only moderate wind
  - Nobody can't guarantee how much wind will blow anywhere at any time.
3. how many hours per day the light will have to be on
  - again, winter nights are longer, summer nights are shorter
4. whether the light is programmed to " dim " itself for part of the night
  - dimming uses about ½ the electricity, and prolongs the illumination duration
5. which light unit ( Compact Fluorescent or LED ) has been installed
  - Our LED's use even less electricity in the dimmed mode than do dimmed CFL's
6. whether the camera has been installed or not, and how much electricity it draws.
  - Cameras use different amounts of electricity, and may be 'on' different parts of the day or night



Given all of the above, calculation and actual observation show that the light will be able to shine at least 17 hours per day without a camera, and at least 12 hours per day if a camera is operating 24/7.

The following table is data derived from two typical locations and the calculated results from the Generation and Storage calculator which is on our website at :

[http://www.remotehybridsystem.com/Page\\_06.03.htm](http://www.remotehybridsystem.com/Page_06.03.htm)

Location	Avg. Wind Speed	Daily Peak Sun Hours	LED Light Duration (+ Camera )
Toronto	5	2.4	> 16 per day
Mexico City	4	5	> 24 per day

In short, we have found that unless the sun is totally blocked ( say by a volcanic eruption ) for more than 2 days, and that the wind doesn't blow at all during that same time, **the RHS will have more than enough stored energy to stay illuminated all night every night**, even with a security camera **also** operating 24/7.