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Country: United States

Light harvesting boundary markers

GlowMark™ is a visual boundary marking system that harvests light from the sun during the day and glows for many hours at night. After a short exposure to sunlight, the markers provide a warm, green, distinctive glow during the night and in low level lighting conditions. This lighting is method 100% free from electrical power requirements, with less embodied energy in its manufacture and production process than using standard photovoltaic cells.

The boundary safety marker system as it is not dependant on electricity is inexpensive and requires no maintenance. The unique patented crystal technology at the core of GlowMark™ emits light for up to 29 hours after just 8 minutes exposure to daylight or artificial light. In practical testing, after only 8 minutes of exposure to daylight, a marker glowed for 12 hours which is more than enough to last throughout the night into the early morning. Therefore, any path or public area lined with the GlowMark™ will be clearly marked during these hours of darkness and can be safely traversed as long as the marker is not removed or obstructed by debris.

The current design of GlowMark™ is in the shape of an arrow measuring 5.8cms in length, 6.0cms in width and 0.5cm high, which has a specifically designed bevelled covering, calculated to dissipate precipitation, dirt and debris so that it is virtually maintenance free. Other designs such as GlowStrips and GlowLetters™ are currently in development. A GlowMark™ marker is guaranteed to glow for 5 years, but in practise lasts much longer.

Another solution offered by the same company is luminescent paving stones which last more than 15 years. Only naturally occurring ultra-violet rays, which are present even on cloudy and overcast days, are needed to fully charge these marking stones.

Source: GlowMark

Top image source: GlowMark

For more attend: [Energy Harvesting & Storage USA 2009](#) 

Also read: [Energy Harvesting and Storage for Electronic Devices 2009-2019](#)