From: "cdm-info"

Date: 25/06/2010 19:09
Subject: Call for inputs on the specific aspects of a methodology framework for estimating GHG reductions from replacing fuel-based lighting with LED Systems.

This is to inform you that user (NGO) (pat.d@brightnewideas.org) has sent a message and requested to alert you on its arrival.

Message body follows:

Today is June 25th, 2010 and as I understand the deadline is today so here is my input:

Technology Replacement Principles

- All components in an LED-lamp are liable to fail, including solar panel. Industry standards exist for calculating solar lifetime for various types of panels.
- Half or more of the cost of a solar lamp likely comes from the solar panel
- Many of the solar-LED lamps currently

produced utilize epoxy-resin laminated solar panels, have been known to degrade with a shorter lifetime than one year. Dubious claims have been made about LED lifetimes, as cited by Dr. Evan Mills. Similarly dubious claims have been made about solar panel lifetimes by their association with LED-solar systems. Since solar panels are such a large cost component within the solar-LED system, much importance should be put into consideration regarding replacement technology lifetimes.

Also, capping lifetimes at 7 years for high-quality technology may be an oversimplification. Low cost lighting can be designed and proven to actually last longer than 7 years if designed to LED and solar industry standards (for example double glass thin film panels with properly binned and heat-sinked high power LEDs), assuming a viable supply of replacement batteries.

Principles of improved methodology

- Add- net waste results of outcomes. Focus on low quality products which last two years (or less) may decrease carbon emissions but lead to a buildup of solid, battery and plastic waste without proper incentives against solid waste build up.
- Net carbon emissions from production and transportation of solar lamps along the entire supply chain should be taken into account if appropriate.

Patrick Delaney

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CDM WEB ALERT