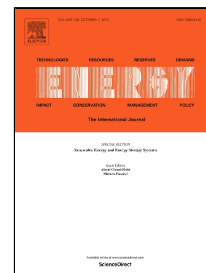


Accepted Manuscript

Performance Enhancement of a Building-Integrated Photovoltaic Module Using Phase Change Material



A. Karthick, K. Kalidasa Murugavel, P. Ramanan

PII: S0360-5442(17)31795-4
DOI: 10.1016/j.energy.2017.10.090
Reference: EGY 11734
To appear in: *Energy*
Received Date: 05 May 2017
Revised Date: 10 October 2017
Accepted Date: 20 October 2017

Please cite this article as: A. Karthick, K. Kalidasa Murugavel, P. Ramanan, Performance Enhancement of a Building-Integrated Photovoltaic Module Using Phase Change Material, *Energy* (2017), doi: 10.1016/j.energy.2017.10.090

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Simplified BIPV-PCM system has been developed.
- Novel method has been proposed to incorporate the inorganic glauber salt PCM.
- Incorporation of PCM improved the electrical efficiency by 10%.
- The BIPV-PCM cell temperature is reduced up to 8 °C compared to reference module.
- Suitability of BIPV-PCM for facades at various orientations is investigated.

Download English Version:

<https://daneshyari.com/en/article/8072556>

Download Persian Version:

<https://daneshyari.com/article/8072556>

[Daneshyari.com](https://daneshyari.com)