|  |
| --- |
|  |
| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5503** |
| Title of the Manuscript:  | **Solar Energy for Heating a Building Used for Offices** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**AIP Conference Proceedings 2190, 020005 (2019)**

**Available:** [**https://doi.org/10.1063/1.5138491**](https://doi.org/10.1063/1.5138491)

|  |
| --- |
| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Solar energy is important for heating office buildings as it reduces reliance on fossil fuels, lowers operational energy costs, and decreases greenhouse gas emissions. By utilizing renewable solar thermal systems, offices can enhance energy efficiency and contribute to sustainable building practices.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Please add objective, methodology, and findings of the work in the abstract.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **No. References are not in proper format. Refer and cite following articles:**1. **M. K. Kar and B. N. Patra, "Design and Analysis of MPPT Charge Controller," *2021 International Conference on Simulation, Automation & Smart Manufacturing (SASM)*, Mathura, India, 2021, pp. 1-4, doi: 10.1109/SASM51857.2021.9841218.**
2. **M.K. Kar, S. Kanungo, S. Dash, and R.R. Parida, 2024. Grid connected solar panel with battery energy storage system. *International Journal of Applied*, *13*(1), pp.223-233.** [**http://doi.org/10.11591/ijape.v13.i1.pp223-233**](http://doi.org/10.11591/ijape.v13.i1.pp223-233)
 |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | 1. What are the key components of an active solar thermal system used for space heating in office buildings, and how do they interact to deliver heat?
2. Discuss the challenges of integrating solar heating systems into existing office buildings versus new constructions. What design considerations must be addressed?
3. How can thermal energy storage enhance the effectiveness of solar heating systems for office buildings during periods of low solar radiation or after sunset?
 |  |

|  |
| --- |
| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Manoj Kumar Kar, Tolani Maritime Institute, India**