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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_134702** |
| Title of the Manuscript: | **A systematic literature review of Smart Power Monitoring and Controlling Systems for smart homes** |
| Type of the Article | **Min-Review Article** |

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| **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.** | **This Manuscript provides a thorough comprehensive and comparative analysis of current Smart Power Monitoring and Control Systems for Smart Homes, a very usefulness to the scientific society.**  **This manuscript highlights the limitations of current systems and proposes more adaptable, scalable and independent system architecture that address the important gaps in user control, safety and connectivity. This manuscript serves as a valuable resources and tools for researchers and developers working on cost effective and energy efficient home automation technology as it highlights on hardware and software improvements.**  **This manuscript also establishes the need for frameworks for future integration of AI-based prediction and renewable energy optimization.** | Thank you very much for your supporting words. We couldn’t explain it like you did. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes the title is very much suitable. It gives clarity and also convey the type of study under researched.** | Thank you very much |
| **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.** | **The abstract of this manuscript gives general motivation and scope but lucks little clarity, structures and completeness. It can be further improved to reflect on the study’s objectives, methodology, findings and contributions. The abstract lucks structure such as: Background study, Problem statement, methodology, Related work, Results and Finding analysis, Key contribution, Block diagrams and images of IoT devices ( type of sensors used, Microcontrollers, Relay, User interface connection and output).**  **SUGGESTION:**   1. **Revise it** 2. **State the propose system’s unique features** 3. **Organise the manuscript in research structures.** | The abstract is revised as follows:  The increasing energy generation expenditure makes it become very expensive for the users. This problem directs the attention of research to either searching for new cheap sources of energy or increasing the awareness of the importance of the energy among individuals. Recently, modern living standards have been significantly changed by the quick development of technology, which has increased demand for smart homes automation solutions. However, current systems are only accessible to a select group of experts and wealthy consumers because of their high complexity, high costs, proprietary limitations, and incompatibility across different standards. This study examines several studies that tracking and controlling energy consumption in smart homes, showing their characteristics and methods. In addition, it highlights the limitations of current systems and suggests more adaptable, scalable and independent system architecture that may improve the efficiency of these systems. Most of the research inform each home of their excess consumption through a simple mobile application that anyone can understand. It serves the consumer on a personal level by rationalizing electricity consumption and also achieves rationalization of general consumption of energy.  In addition: a new paragraph is added to the end of the introduction to describe the organization of the paper. |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript is scientifically, correct but**   1. **Kindly provide explanation to the Literature review process.** 2. **Provide system performance testing or prototype results of the proposed system.** | Thank you very much. the paper is a reviewing paper which reviews works already have been done in managing and controlling the power in homes. Some suggestion points are recommended for better results. these are recommendations for future work. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The References are more relevant and sufficient as they covers a smart power monitoring and control systems published between 2017 to 2023. Several of the References are up to date research.**  **SUGGESTION:**  **Since the proposed uses AI-based predictive analysis for optimization, add at least two (2) references related to AI or Machine Leaning in energy optimization or management.** | Great suggestion. More references are added for more clarification. |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes but the manuscript requires little language editing. Check for Grammatical errors, sentence structures, tenses and expressions.** | The paper is revised. Thank you |
| **Optional/General** comments | **The manuscript provides and presents timely and current research on smart power monitoring and control systems for smart homes. It emphases on the relevant of IoT integration, energy efficiency and safety of the system. Adding up comparison tables give clarity to the manuscript. But improve upon the language edition, thus check for spellings, Grammar, tenses and expression. Revised the abstract, add problem statement, background study, research gap, Results and findings, proposed system block diagram,**  **images of few components, User interface connectivity.** | Thank you very kind words. The paper is revised as you recommend taking into consideration it is a review paper so there is no result. We suggested some recommendations for future work. |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |