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| Journal Name: | **International Journal of Environment and Climate Change** |
| Manuscript Number: | **Ms\_IJECC\_133751** |
| Title of the Manuscript: | **Optimizing the IoT sensor power consumption through in change in duty cycle using intelligent switching mechanisms.** |
| Type of the Article | **Original Research Article** |

PART 1: Comments

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|  | **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.** |  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** |  |  |
| **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.** |  |  |
| **Is the manuscript scientifically, correct? Please write here.** |  |  |
| **Are the references sufficient and recent? If you have****suggestions of additional references, please mention them in the review form.** |  |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** |  |  |
| **Optional/General** comments | 1. **A well-structured abstract explains the research objectives, methodological framework, and key findings of the study.**
2. **"The experimental setup consists of a DHT11 sensor, an INA219 current sensor, and an IRLZ43N MOSFET relay, connected to a Raspberry Pi 4 to collect and upload data to the Adafruit IO cloud platform."**

**make it shorter to write sentences like this:****"The setup includes a DHT11 sensor, an INA219, an IRLZ43N MOSFET relay, and a Raspberry Pi 4 for data collection and cloud upload via Adafruit IO."**1. **Make a match between the research background, research problem and research objectives if necessary present the novelty. but overall this abstract has met the writing standards**
2. **In the literature review to be equipped with various sources from the last 5 years, there will also be adjustments to the references**
3. **Adjusting references with data from the last 5 years would be better**
4. **Add some comparison results and discussion.**
5. **Give a comparison to previous work.**
6. **Check for grammar and spelling.**
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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)* |  |

**Reviewer Details:**

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