

## Review of: "The Application of PROMETHEE with the recalculated weight method as a more accurate measurement for the selection of the best Hybrid Renewable Energy Technology for a slum building"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

- Manuscript's English should be revised, there are low sentences, there are places that are not understood.
- Manuscript's title is too long, unnecessary words are used. It should be expressed shorter and more clearly.
- The article is very long in general, the methods' steps should be given in a shorter form (may be in the form of a table).
- For Abstract Section; While the importance of the study in general should be mentioned, the importance of the
  weighting method used was mentioned, the purpose and findings of the study were not mentioned, the summary
  needs to be rewritten; Abbreviations should not be used in the abstract (HOMER, AHP, Fuzzy AHP, Critic, Entropy,
  Promethee etc.), clear forms of expressions should be given. These abbreviations should be included in the sections
  where they first appear in the following sections.
- MCDM needs to be added to keywords.
- For Introduction Section; "Normally the weights of the criteria can be subjective and objective. Subjective weights are determined by expert evaluation. These weights express the opinions of experts and are associated with bias and vagueness on the part of the decision maker. i.e stepwise weight assessment ratio analysis (SWARA), simple Multi-attribute Ranking (SMART)[9] analytical hierarchy process (AHP), Delphi and Kemeny Median Indicator Ranks Accordance KEMIRA[10][11][12][13]." The expression in this sentence is wrong because personal judgments can be evaluated by fuzzy versions of these methods.
- For Introduction Section; "These works claim that the combined weight method is anaccurate measure of the criteria weights applicable to the multi-criteria decision-making method". The bolded expression in this sentence should be "inaccurate".
- For Purpose, Scope, and Contribution of the Article Section, "Thus this paper aims to increase the understanding of the application of the recalculated weight method and validate its application with various MCDM methods". This should not be the main purpose of the article. The main purpose is the selection of hybrid renewable energy technology for slum buildings.
- For Purpose, Scope, and Contribution of the Article Section, "To the best of the author's knowledge, this is the first study to use the PROMETHEE method for the selection of hybrid renewable energy technologies for slum settlements with the use of the most accurate weight". The contribution of the study is not verifiable because the literature review is very insufficient (4 studies).



- Although the abbreviation of GKUA is used for the first time in section 2, its abbreviation is in section 1.1.
- For Methodology Section; From which source the steps of the methods (Critic, Entropy, AHP, Fuzzy AHP) were taken, references are not given.
- Why Critic, Entropy, AHP, Fuzzy AHP, TOPSIS, ELECTRE, and PROMETHEE methods were preferred, what are their advantages?
- What are the evaluation criteria (C1, C2,....) by which alternatives are evaluated while applying MCDM methods?
- For Discussion Section; The limitations of the study and what can be done in future studies were not mentioned.