

Review of: "Refrigerant Selection in Air Conditioning Systems Considering Thermodynamic, Environmental, and Economic Performance Using the BHARAT-II Multi-Attribute Decision-Making Method"

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Potential competing interests: No potential competing interests to declare.

The paper introduces a well-structured and clear multi-attribute decision-making (MADM) method called "BHARAT-II" for selecting the most suitable refrigerant for air conditioning systems. The research presented is thorough and well-executed, making a valuable contribution to the field of refrigerant selection.

The detailed methodology and the application of BHARAT-II to real-world case studies effectively demonstrate the practicality and effectiveness of this MADM approach. By maintaining clarity and consistency throughout the paper, the authors can further enhance the overall readability and impact of their work.

To build on this strong foundation, the authors could consider the following enhancements:

Provide a comprehensive step-by-step description of the BHARAT-II methodology, including the rationale behind the key design decisions. This will help readers fully understand and evaluate the proposed approach.

Expand the literature review to cover a wider range of MADM techniques that have been applied to refrigerant selection problems. This will give better context for highlighting the unique contributions of the BHARAT-II method.

Incorporate sensitivity analyses to assess the robustness of the BHARAT-II results to changes in attribute weights or other relevant parameters. This will strengthen the conclusions drawn about the effectiveness of the method.

Discuss the potential limitations of the BHARAT-II approach and identify possible future extensions or improvements. This will offer a more balanced perspective on the technique.