

Review of: "Water-Energy Nexus in Power Systems: A Review"

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Potential competing interests: No potential competing interests to declare.

Overall, the article is well-organized and interesting, offering a thorough summary of the topic. The use of real-world examples and case studies increases practical relevance. To improve the article, I recommend using visuals, such as charts or diagrams, to demonstrate key topics and linkages. Furthermore, maintaining a consistent level of information throughout sections improves cohesion. In the methodology section, a brief comparison of the strengths and drawbacks of various approaches could help researchers choose appropriate methods. Furthermore, examining the success and obstacles of policy implementation in the policies section would provide useful information. The problems section might benefit from the addition of more quantifiable data or statistics. Overall, your paper has enormous promise, and these proposed improvements aim to enhance its clarity and impact.

- Consider briefly mentioning the scope or objectives of the manuscript within the introduction to provide readers with a roadmap for what to expect.
- If applicable, in the interconnections between water and energy section, consider introducing visuals (charts, diagrams) to illustrate key interconnections visually.
- In the methodology section, consider providing a brief comparison or discussion of the strengths and limitations of different methodologies to guide researchers in choosing the most appropriate approach.
- Consider adding a brief subsection on challenges or limitations associated with optimization modelling in the context of water-energy systems.
- In the policy section, if possible, briefly discuss the effectiveness or challenges associated with the implementation of these policies.
- In the challenges and conclusion section, consider integrating more quantitative data or statistics to strengthen the impact of the challenges discussed.