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

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Potential competing interests: No potential competing interests to declare.

The authors present an overview of the water-energy nexus, focusing on their interactions in terms of synergies and trade-offs in power systems. I have several concerns with this manuscript that I lay out in detail in the comments below. In summary, this article lacks an expressed novelty description, goals, and ambiguous discussion of results and outcomes.

1. Authors should emphasize how their work contributes to the advancement of knowledge in the field and highlight the novelty and recommendations for reviewed systems.
2. The review structure and the flow of the writing need to be improved.
3. There is not enough clarity in the cited references related to the Water-Energy Nexus in power systems. Very recent references should be included and discussed in the text in order to prove the novelty of the proposed technique.
4. Authors present a review of different methods for investigating the water-energy nexus. It is required to provide a comparative summary to explain the advantages and disadvantages of these methods.
5. Authors should include a section on thermal desalination (MED and MSF) as the main water treatment technologies used in many countries and their associated greenhouse gas emissions.