

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

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Potential competing interests: No potential competing interests to declare.

The v1 of Water-Energy Nexus in Power Systems: A Review manuscript deals with a topic of high interest for the current research community. The paper is structured as a Review paper with proper separation of sub-topics and very useful information. The paper is properly organized and documented in terms of literature; however, I find the findings (conclusions) of the study somewhat inconclusive and lacking, only giving general remarks and suggestions towards future research directions. The paper quality can be significantly improved by performing a comparative analysis with other similar papers on the topic to extract common/contradictory opinions and directions.

Thus, for an enhanced review, several changes are recommended:

- Explaining complex technical terms or concepts for readers less familiar with the field.
- A literature comparative analysis of the strengths and limitations of each methodology.
- Explanatory figures/diagrams should be added to the main text to explain essential concepts/methodology for the study. Moreover, the paper refers to Fig. 1, but the figure is missing from the manuscript.
- Further comparative analysis regarding emerging trends and research directions.
- The applied research method, application, and findings of the study should be clearly presented and emphasized.

In conclusion, the paper is of moderate quality but is not yet fit for publishing, requiring an extensive review to address the shortcomings above.