

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

Mohammed Nader Shalaby¹

¹ Suez Canal University

Potential competing interests: No potential competing interests to declare.

As the world continues to transition towards cleaner and more efficient energy sources, the intricate interplay between water and energy in power systems has emerged as an essential and multifaceted relationship with profound implications for sustainable energy planning. This comprehensive exploration considers a diverse range of academic databases and synthesizes relevant research to systematically investigate the current state of knowledge on the water-energy nexus. By distilling key findings and concepts related to the water-energy nexus in power systems, this work underscores the pivotal role of water in power generation and the energy required for water treatment and distribution. Additionally, this exploration brings into focus the challenges that the water-energy nexus faces, including the far-reaching impacts of climate change and the potential of renewable energy solutions. The complex policy and regulatory frameworks that govern the water-energy nexus in power systems are also examined, highlighting the crucial need for integrated approaches in energy and water management. By identifying key areas for further research and emphasizing the urgency for innovative solutions, this exploration stresses the need to prioritize sustainable management of water and energy resources in an effective, efficient, and resilient manner.

In general, it's a good paper and the subject of the manuscript is applicable and useful.

Title: The title properly explains the purpose and objective of the article.

Abstract: The abstract contains an appropriate summary for the article, the language used in the abstract is easy to read and understand, and there are no suggestions for improvement.

Introduction: The authors do provide adequate background on the topic and reason for this article and describe what the authors hoped to achieve.

Grammar: There are a lot of grammatical errors. This must be taken care of and addressed.