

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

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**Potential competing interests:** No potential competing interests to declare.

The article is very relevant, with important content demonstrating the water and energy nexus in various aspects.

In the introduction, it was important for the authors to talk about the use of energy to pump water to homes, but this paragraph failed to mention what residents also do to have access to water, often using energy to pump water from their own water pumps to obtain water for use. Generally, in houses that have a lack of water, they have pumps to draw water into the homes, and when they are without electricity, access to water also ends.

In the list of references, I verified that the citations are from works published at least 10 years ago; therefore, they are not recent, which demonstrates the authors' concern regarding recent and updated references.

I missed the authors mentioning more countries that use reused water sources for cooling industries, an important source of sustainable water to generate energy in industrial production. For example, regarding Brazilian laws, such as state laws such as Law nº 7,424, in the state of Rio de Janeiro, there is Law nº 7,599 of 2017 (GOVERNO DO ESTADO DO RIO DE JANEIRO, 2017), which provides for the obligation of industries located in the state to install water treatment and reuse equipment.

The authors need to mention the concept of reused water, as they sometimes mention the importance of reusing water, from sewage and gray water, but there is no definition of reused water in the article. It is an important source for reducing the demand for drinking water or rivers for industries, urban cleaning, agriculture, and other activities that require water.