

Interactive comment on “Water consumption from hydropower plants – review of published estimates and an assessment of the concept” by T. H. Bakken et al.

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Thanks a lot for providing very valuable feedback and provide deeper insight into the complexity of calculating the water consumption/footprint of hydropower plants. The response to the reviewer's comments is as follows:

Issue 1 raised by reviewer: Page 8089, line 20-23: Demeke et al. used measured evaporation value (mean) for several years.

Response from authors: Yes, we will point this out clearly in the revised manuscript where indicated by the reviewer, possibly explaining the deviations between the water

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footprint estimates of Demeke et al. (2013) and Mekonnen and Hoekstra (2012) for the Akosombo case.

Issue 2 raised by reviewer: Page 8107, Table 4: Units for "Estimated annual evaporation losses" as "Mm" not clear. A "mm" in my opinion should be a suitable unit

Response from authors: Yes, this is a mistake made by the authors and will be updated in the revised manuscript.

A few additional changes that will be made by the authors in the revised manuscript:

1. The reference to the article by Demeke et al. (2013) contains a misspelling of one of the authors; this will be corrected to A. Mynett.

2. The following article Bakken, T. H., Skarbøvik, E., Gosain, A. K., Palanisami, K., Sauterleute, J., Egeland, H., Kakumanu, K. R., Nagothu, U. S., Harby, A., Tirupataiah, K., and Stålnacke, P.: Optimizing water allocation with use of the Building Block Methodology (BBM), J. Hydroenviron. Res., 2013b was never published in J. Hydroenviron. Res. Instead it has been published in Journal of Sustainable Development, Published by Canadian Center of Science and Education, doi:10.5539/jds.v6n8p93, with basically the same content.

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