

Interactive comment on “Risks and opportunities for a Swiss hydropower company in a changing climate” by Kirsti Hakala et al.

Anonymous Referee #1

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General comments

This study presents a case study focused on estimation of future changes in the streamflow and energy demand for two catchments in Switzerland. The main objective is to explore and evaluate the future inflows to two reservoirs used for hydropower production in order to support adaptation to climate change, and in particular, the negotiation of a new water concession.

The manuscript is clearly written and has a good structure, however I missed some more specific formulation of the scientific context and contribution. The link between science and engineering practice is interesting, but I wonder to what extent is the presented material in line with the scope of HESS. In its current form, the manuscript reads as a technical report and case study and does not provide clear formulations

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and demonstrations of the novel scientific contribution. If this is not a key requirement for publication in HESS (I'm a bit confused by reading the current scope of HESS) then I recommend to publish it, if not a substantial revision improving the formulation/demonstration of novel scientific contribution is needed. It will be very interesting to see some more quantitative assessment of the steps used in the workflow (e.g. definition, evaluation of vulnerabilities) and how do those reduce the uncertainty (e.g. how did the multiple rounds of feedbacks quantitatively impact the projections and reduce the associated risks).

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