Hydrol. Earth Syst. Sci. Discuss.,
https://doi.org/10.5194/hess-2020-338-RC2, 2020


Hydrology and Earth System Sciences
Discussions

# *Interactive comment on* "Global scenarios of irrigation water use for bioenergy production: a systematic review" *by* Fabian Stenzel et al.

**Anonymous Referee #2**

Received and published: 21 August 2020

The manuscript titled ''Global scenarios of irrigation water use for bioenergy production : a systematic review" summarizes recent literature on global water requirements for irrigation of bioenergy production (BP). Using a systematic review approach, the authors have searched, identified, extracted and analysed recent studies that report estimates of global water water demand for irrigation of BP. They found that water use for BP is wide ranging and that this water use is of same order of magnitude as water use for other sectors of the global economy (agriculture, industries, households). They examined the cause of variation in estimates of global water use across studies and highligthed the minimum set of parameters and assumptions that should be included in future studies to allow consistency in estimates and straightforward comparision of estimates of global water use across studies. Overall the manuscript itself is



interesting and the topic is timely giving the relatively few studies on global water use of bioenergy with carbon carpture and sequestration (BECCS) as well as on global water use of negative emission technologies (NETs). However, they are issues that need to be addressed before the manuscript can become a valuable contribution to the current literature. The manuscript also requires a thourough english grammar check/edit to improve the readability. I have corrected few sentences but there are many more to check and correct.

Please also note the supplement to this comment:
https://hess.copernicus.org/preprints/hess-2020-338/hess-2020-338-RC2-supplement.pdf

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