**Systems analysis of water-energy nexus**

* What is water energy nexus?

It’s the concept that any water intensive task involves an energy component and vice-versa. [[1]](#footnote-1) have a detailed article on the issue.

* Why is its systems analysis important?

It’s always better to put numbers against a model.

* List papers that do the same

**Bibliography**

Bazilian, Morgan, Holger Rogner, Mark Howells, Sebastian Hermann, Douglas Arent, Dolf Gielen, Pasquale Steduto, et al. “Considering the Energy, Water and Food Nexus: Towards an Integrated Modelling Approach.” *Energy Policy*, Clean Cooking Fuels and Technologies in Developing Economies, 39, no. 12 (December 2011): 7896–7906. doi:10.1016/j.enpol.2011.09.039.

**Modeling user behavior with regard to water consumption in households**

* Why is modeling human behavior with regard to water consumption important?
* What are the existing behavior models in place?
* What do those models take in as factors, variables, data, others?
* What do these models lack, better at?
* Given these models, can we better predict household water demand?
* If these models give a realistic estimate, can we use the same models to create a feedback loop to the end user to nudge his/ her behavior?

**Bibliography**

Links so far

<https://scholar.google.com/scholar?hl=en&as_sdt=0,45&q=feedback+water+use+behaviour>

<https://scholar.google.com/scholar?start=40&hl=en&as_sdt=5,45&sciodt=0,45&cites=12471560834107398157&scipsc>=

<http://ieeexplore.ieee.org/document/6935498/?arnumber=6935498&tag=1>

<http://www.sciencedirect.com/science/article/pii/S0301479709002850>

1. Bazilian et al., “Considering the Energy, Water and Food Nexus.” [↑](#footnote-ref-1)