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Interactive comment on "WaterMet^2: a tool for integrated analysis of sustainability-based performance of urban water systems" *by* K. Behzadian et al.

Anonymous Referee #2

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The paper presents a really interesting and promising tool for the assessment of sustainability-based performance of urban water systems and the evaluation of strategic planning policies and intervention options. The manuscript is clear, well written and logically structured. The title and the abstract reflect the content of the paper. The description of the methodology, despite being clear, is very concise; a few more details would have been appreciated. Likewise, it would be nice to have a few more details about the calibration of the WaterMet2 model of Oslo water system, reported in the case study section. The model seems capable of describing and analysing the main issues and phenomena involved in the quantification of metabolism-related performance of urban water systems. Of course, being conceptual and mass balance

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based, the model cannot describe phenomena whose description would require the execution of hydraulic simulations (such as the dependence of leakages in water distribution systems on nodal pressures) and thus it requires specific assumptions to be made.

Minor technical observations: - Please add the meaning of WTW acronym at page 4, line 25 (even if the meaning is clear). - Please add the meaning of WWTW acronym at page 5, line 10 (even if the meaning is clear). - Please add WTW acronym and meaning in Fig. 1 caption. - Please complete Fig. 2 caption with all model elements' acronyms and meanings. The STO element is missing in the figure. - Please review line 25 and 27, page 11, to emend typing errors.

Interactive comment on Drink. Water Eng. Sci. Discuss., 7, 1, 2014.