

# **A Comparative Analysis of Partial and Aggregated Assessment of Water Infrastructure Performance: Empirical Findings from Uganda**

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## **Abstract:**

Almost all water supply policy makers and managers in developing countries (and in some developed countries) are faced with enormous challenges of improving managerial efficiencies and productivity. Some managers have tended to judge improvements in water supply management based on partial performance indicators. The question is which of these partial indicators do you use to say, unequivocally, that the company is approaching best-practice? In this study, we utilize an input stochastic frontier analysis (SFA) distance function to compute an aggregate measure – technical efficiency (catch-up). We use unbalanced panel data from 12-15 NWSC-Ugandan water utilities for the period 2000-2006. The study concludes that individual partial operating efficiency indicators may exhibit varied improvement and statistical consistency trends compared to performance compatible technical efficiency trends for water infrastructure management.

**Key Words:** Input SFA distance function, partial performance indicators, water infrastructure management

**For more details please refer to the Journal**