

# Potential of water loss reduction in distribution systems - Case study focusing in Brazilian regional service providers

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**Título:** Potential of water loss reduction in distribution systems - Case study focusing in Brazilian regional service providers

**Descrição:** This work studies three Brazilian regional water service providers in order to evaluate their operational water loss reduction potentials. A Data Envelopment Analysis (DEA) was produced in order to determinate the amount of water loss that could be reduced in Minas Gerais, Paraná and São Paulo, where the main operation is conducted by regional firms. This analysis was realized using the Sistema Nacional de Informações sobre Saneamento (SNIS) - a Brazilian sanitation data system. Based on the inputs (a) connections per network length, (b) family units per connection and (c) family units average consumption, it was possible to identify, via DEA, the efficient water loss - variable considered as a bad output - in the distribution systems. The results indicate efficient values, which would imply in a 12.1 p.p., 9.5 p.p. and 9.9 p.p. water loss reduction in the regional operators of Minas Gerais, Paraná and São Paulo, respectively.

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**Tamanho:** 149 Kb

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