

**Kwietniewski, M. Application of Water Loss Indicators as a Measure of its Distribution Effectiveness in Water Supply Systems. *Ochrona Srodowiska* 2013, Vol. 35, No. 4, pp. 9–16.**

**Abstract:** Application of international standards of water loss estimates to the effectiveness assessment of water distribution system translates into the opportunity to improve quality of water supply system management. The water loss percentage indicator is found not to be useful for water loss estimates as it does not take into account many factors significantly affecting the magnitude of losses. The presented considerations relate to global standards for water distribution system management, recommended by the International Water Association (IWA). A key measure used to evaluate the effectiveness of water distribution in water supply systems is the infrastructure leakage index (ILI). Great usefulness of this parameter is illustrated by the exemplary evaluation of water distribution system for the medium-sized town of Siedlce. The results obtained (ILI in the range of 2–4) confirm that in order to increase profitability of water supply systems there is a potential for improvements in terms of network pressure management, leakage control, and network maintenance.

**Keywords:** Water distribution system, water loss indicator, ILI.