

Review of: "Non-revenue Water Reduction"

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Potential competing interests: The paper insights into the benefits and strategies are commendable. Few modifications need to be done in order to enhance the paper.

I have reviewed your paper, and overall, it provides a strong foundation on the importance of SCADA systems and the need to reduce Non-Revenue Water (NRW) in smart cities. Your insights into the benefits and strategies are commendable. However, I would like to suggest a few modifications to enhance the paper further. Here are some key areas to consider:

1. The text doesn't address the potential cybersecurity vulnerabilities associated with SCADA systems. SCADA systems are known targets for cyber-attacks, and a comprehensive discussion on security measures and potential risks is necessary.
2. The text briefly mentions the use of flow meters and pressure measuring devices to reduce NRW but doesn't delve into the potential operational challenges, costs, and maintenance issues associated with implementing and managing such technology.
3. The text mentions reducing non-revenue water through measures like detecting leaks, stealth connections, and installing efficient water meters. However, it lacks specifics on the technological or procedural interventions to achieve these reductions.
4. With the emphasis on data-driven decision support, there's a need to address concerns related to data privacy, ownership, and the responsible use of data collected by SCADA systems, especially in the context of smart cities.
5. The text focuses on the technical aspects of NRW reduction but doesn't discuss potential social or environmental impacts. For instance, the installation of water meters may raise equity concerns or environmental impacts associated with the production and disposal of such devices.
6. While mentioning collaboration among departments, the text doesn't detail how these collaborations would take place, potential challenges in inter-departmental cooperation, or mechanisms to ensure effective coordination.
7. The text does not address the importance of a robust regulatory framework to govern water management practices in smart cities. Clear regulations are essential to ensure fair practices, data security, and accountability.