Review of: "Non-revenue Water Reduction"

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Potential competing interests: No potential competing interests to declare.

The paper on "Non-revenue Water Reduction" presents a comprehensive examination of leveraging SCADA systems in water management to mitigate non-revenue water (NRW) issues, an essential topic for the sustainability and efficiency of water resources in smart cities. It is notable for its in-depth discussion of the causes, impacts, and actionable solutions for NRW, including the use of advanced technologies such as flow meters, pressure sensors, and AI integration for data analysis and system management. The inclusion of real-world data and outcomes from specific regions like Esna significantly enhances its practical relevance, demonstrating the application and effectiveness of the proposed strategies in reducing water loss and improving system efficiency.

However, for the paper to solidify its contribution to the field, it must clearly delineate its originality and the novelty of its approaches compared to existing literature. The rigour of data analysis, the robustness of methodologies employed, and the validity of the conclusions drawn are crucial elements that need to be highlighted. Ensuring that the paper articulates how its findings advance the current state of knowledge or address gaps in existing research will be key to its acceptance for publication.

The paper's organisation and clarity of presentation appear to facilitate understanding, making it accessible to a broad audience, including those not deeply familiar with SCADA systems or water management technologies. Future success in publication would also depend on a thorough literature review, demonstrating awareness of and engagement with current research trends and dialogues within the water management community. Addressing these considerations will enhance the paper's suitability for publication, offering valuable insights into NRW reduction strategies and contributing to the ongoing efforts in sustainable water management in smart cities.