

# Review of: "Increasing Renewables and Building Retrofit in a Coal-Based Cogeneration District Heating System"

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**Potential competing interests:** No potential competing interests to declare.

Overall, the research paper provides a well-structured and detailed analysis of the transition towards the fourth generation of district heating systems in a coal-based cogeneration context. The combination of theoretical background, literature review, case study, and scenario analysis contributes to a comprehensive understanding of the subject matter. The findings offer valuable insights for policymakers, researchers, and practitioners interested in the sustainable transformation of district heating systems. But I have a few concerns:

1. The values of different parameters of components used for the model are not given in the manuscript. For example, the capacity and efficiency of the CHP, Boiler, etc.
2. The initial investment cost for the implementation of this system is not considered, which might be very high.