

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.

The article evaluates district heating systems connected to cogeneration units and energy efficiency measures applied to buildings. The article classifies district heating in five distinct generations but it is not clear what are the criteria used to determine such classifications. Could you define each one of the generations?

The authors cite their previous works as the source of data. Is it possible to summarize the key data used in the model in a table? It is hard to understand the results without the underlying data. Please consider a supplementary file with the variables.

It is not clear if the existing cogeneration system and the future cogeneration system is a bottoming cycle or topping cycle. Is it possible to add a diagram showing the type of the cogeneration system considered?

The baseline or the system boundary is not clear. Are you considering the total heat demand of the city or the district heating system. Moreover, if RE is adopted at the city heating system level, it will cause the same effect in terms of emission reductions. Another piece of information missing is the share of electricity used for heating.