

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.

Reviewer's Comments

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Full Title: Increasing Renewables and Building Retrofit in a Coal-Based Cogeneration District Heating System

Article Type: Research Article

The manuscript entitled "Increasing Renewables and Building Retrofit in a Coal-Based Cogeneration District Heating System" presents the role of energy efficiency in buildings and the coupling of the power and heating sectors in a cogeneration coal-based district heating system, considering technical and environmental boundary conditions.

The study presented the integration of renewable energy sources via power heat technologies and savings in the primary energy supply. This can be considered to overcome the problem of primary energy supply savings and emissions.

However, in my opinion, for improvement, some minor corrections are required in this work as follows:

- 1. The abstract does not give the clear objective of the problem.
- 2. The problem statement and objectives are not clear.
- 3. How did the author utilize the CEEP process?
- 4. How did the author integrate the wind system with the coal-based system, and what are the specifications and parameters used for the wind system?
- 5. The subheadings 4.1 and 4.2 are not clear.
- 6. The author should elaborate on section 4 with some numerical values or with graphical representation.
- 7. The author should mention some numerical values in the abstract.
- 8. Elaborate on the results analysis section.
- 9. The manuscript is not well structured grammatically.
- 10. How did the CO2 emissions decrease in this case study? Author, clarify with some results.

Hence, in my opinion, after this minor revision, the manuscript may be accepted.