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Algorithmic maximization of energy productivity to achieve net-zero emissions for production sites

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Abstract

The industrial sector accounts for 25

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Keywords: mathematical optimization; production sites; transformation concepts; energy productivity; net-zero emissions;

1. Main Text

A study that is based on mathematical optimization is based on these elements: 1. description of the use case, motivation and estimated scenarios 2. description of the applied modelling, simulation and solution methods or heuristics 3. presentation of the study outcome 4. discussion of the study outcome and in best case derivation of clear influencing metrics of the study outcome 5. critical analysis influencing elements of the study (scenario, modelling, heuristic)

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¹ Footnote text.

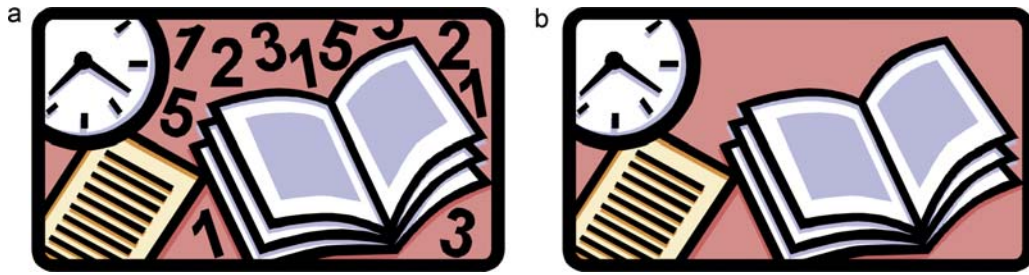


Fig. 1. (a) first picture; (b) second picture.

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$$X_r = \dot{Q}_{rad}'' / (\dot{Q}_{rad}'' + \dot{Q}_{conv}'')$$

$$\rho = \frac{\vec{E}}{J_c(T = \text{const.}) \cdot \left(P \cdot \left(\frac{\vec{E}}{E_c} \right)^m + (1 - P) \right)} \quad (1)$$

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Appendix A. An example appendix

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A.1. Example of a sub-heading within an appendix

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References

- [1] Gilbert Fridgen, Robert Keller, Marc-Fabian Körner, Michael Schöpf, [A holistic view on sector coupling](#), Energy Policy 147 (2020) 111913. doi:10.1016/j.enpol.2020.111913.
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