

Review of: "Revisiting the challenges of ozone depletion from a prospective LCA perspective"

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Potential competing interests: No potential competing interests to declare.

The authors of the reviewed article raise a very important issue of modelling phenomena related to the depletion of the ozone layer in connection with climate change both on a global and local scale.

The article is composed very well, and the selection of basic documents for the development of future scenarios is accurate. However, it could be slightly improved in details. Firstly, there is no need to repeat explanations of abbreviations used (see Introduction). Secondly, the shortened form of the United Nations Environment Programme used worldwide is UNEP.

In my opinion, the chemical aspects of the ozone depletion in the stratosphere have been described in sufficient detail, and the choice of characterisation factors is in line with current knowledge. However, it would have been beneficial to mention the processes responsible for mass transport, as modelling of chemical processes conditioned by the availability of reaction substrates are of consideration.

The conclusions are adequate to the analysis carried out in the article, but it would be good to explain the meaning of the term "dynamic substitution" of ODS for different countries.