

# Review of: "The Role of Green Legacy in Promoting Sustainable Development and Combating Climate Change"

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

The research manuscript provides valuable insights into the impact of the Green Legacy initiative on sustainable development and climate change in Ethiopia. However, there are a few scientific criticisms that can be strongly revised.

1. **Lack of comprehensive literature review**: The manuscript mentions a research gap in the existing scholarly literature specifically examining the impact of the Green Legacy on climate change mitigation and adaptation. It would be beneficial to have a more detailed discussion on the existing studies and their limitations to provide a stronger foundation for the research. There are several information or facts that the country planted more than 25 billion trees in recent few years through mobilizing millions of people.

2. **Limited methodology description**: The manuscript briefly mentions the use of mixed research methods, questionnaires, interviews, and logit regression analysis. However, it lacks details on the sample size, sampling technique, data collection process, and statistical analysis methods employed. It is also scientifically quantified and proved in data in terms of representation of the landscape and this kind of big topic or context. Providing more information on these aspects would enhance the credibility and replicability of the study.

3. **Inadequate discussion of limitations**: The manuscript briefly mentions some challenges faced during the Green Legacy initiative, such as water scarcity and overexploited forests. However, it does not elaborate on how these challenges were addressed or how they may have influenced the research findings. It is important to acknowledge and discuss the limitations of the study to provide a more comprehensive understanding of the research outcomes.

4. **Lack of clarity on the negative effect of planting and growing trees on climate change**: The manuscript states that the results of the study revealed a negative effect of planting and growing trees on climate change. However, it does not provide any explanation or interpretation of this finding. It would be helpful to elaborate on the mechanisms through which tree planting may have a negative effect on climate change, as this goes against the widely accepted understanding that trees play a crucial role in carbon sequestration and climate change mitigation.

5. **Limited generalizability**: The manuscript mentions that the research findings can contribute to the understanding of large-scale reforestation initiatives and their effectiveness in combating climate change. However, it does not provide information on the study's geographical scope, sample representativeness, or the extent to which the findings can be generalized to other regions or countries. Clarifying the generalizability of the research findings would enhance their applicability and relevance to broader contexts.

Overall, addressing these scientific criticisms would strengthen the research to be published and its implications for sustainable development and climate change mitigation in Ethiopia. So, **major revision** is needed.