

Review of: "Quantifying the Environmental Impact: A Comparative Analysis of Consensus Algorithms in Blockchain for Carbon Footprint Reduction and Mitigating Climate Change"

Kun Li¹

¹ Maastricht University

Potential competing interests: No potential competing interests to declare.

The paper makes an important contribution to the discussion around blockchain and sustainability. It strikes a balance between technical detail and broader implications, making it accessible and informative. This intersection of technology and sustainability is crucial in today's world.

The paper proposes a clear methodology for assessing environmental impacts and provides a good framework for comparison. **Applying this methodology to actual case studies or real-world data would be beneficial.** This practical application could strengthen the paper's findings and provide more concrete examples.

The formula for calculating the carbon footprint is a valuable contribution, offering a tangible way to measure impact. **More discussion around the assumptions and limitations of this formula would be useful.** Additionally, incorporating some empirical data or simulations could enhance the analysis.