

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

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Potential competing interests: No potential competing interests to declare.

A few points before this can be considered a research article:

-further review of consensus methods are necessary. There are many more methods than the ones mentioned, and the detail is important. For example, how many clock cycles are required for a validator to reach consensus? How many validators are in the network? Not all PoW algorithms are the same, similar for PoS.

-hypothetical data is inappropriate at any level. Additionally, there is no indication about where and how you will get real data

-the premise of per-transaction activity is weak. For example, proof of work mining in Bitcoin is independent of transaction volume and scales according to different factors in the network

In my opinion this is a draft of a proposal. Much work is still required. Good luck!