

## PROOF OF WORK ENERGY CONSTRAINT ISSUES

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### ABSTRACT

*Organizations all across the world are under pressure to reduce their use of non-renewable energy sources and their environmental carbon footprints. However, as we can see, the average energy usage for a single bitcoin in 2021 could be equivalent to several hundred thousand transactions. This is higher the power consumption of Finland. As Higher miner income of BTC and BTH, the more powerful computer hardware and resources it can require. PoW consensus algorithm used in bitcoin mining should be questioned for such unaccountable power usage? This paper investigates various consensus mechanism used in cryptocurrencies to overcome high energy consumptions and make them more energy reliable.*

**KEYWORDS:** *PoW, PoS, PoH, PoET, PoC, BTH & BTS*

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