

# Energycoin: A peer to peer distributed energy generation, transfer, and transaction system

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iA [www.energycoin.org](http://www.energycoin.org) coming soon

**Abstract.** Using a proof of energy blockchain, a purely peer-to-peer version of metered electricity would allow direct payments or transfers of energy to be sent directly from one party to another without going through a financial institution. Using a cryptographically secured energy meter, if one has an electric vehicle and solar or other renewable electric generation tools, as well as a grid connection, we can simply say charge X watt hours to their energy balance/battery—the logical equivalent of a bitcoin wallet. I.e. if an EV driver were to move far from home they could simply charge at a friend's place and the grid would transfer the energy based on a cryptographically secured transaction. People can also add value to earn energy for services rendered, and directly trade or value objects based on the amount of energy required. Since  $E=mc^2$  we can incentivize energy to mass and mass to energy conversion efficiency. This would also incentivize overall energy efficiency, since cost will directly correspond to energy output.