|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Coin Name | Kilowatts | TVL per kWh | Verification method for transactions | Speed of transactions? | Size of Network | Release Date |
| Bitcoin | 89,780,000,000 kWh | $10,224,775,841 annual electricity costs | Proof of work | 4.6 transactions/second | 324 GB | 2009 |
| Ethereum | 17,300,000,000 kWh |  | Proof of Work & Stake | 15 transactions/second | 991.56 GB | 2015 |
| Avalanche (AVAX) | 489,311 kWh | $18,454 per kWh | Proof of stake | 4500 transaction/second | 2 GB | 2015 |
| Solana | 1,967,930 kWh | $4,395 per kWh | Proof of stake | 65,000 transaction/second | 200 GB with various nodes | 2020 |
| Cardano | 598,755 kWh | $120 per kWh | Proof of stake | 250 transactions/second | 88 KB | 2017 |

https://avalanche.today/avalanche-is-a-green-coin-consume-35000x-less-energy-than-ethereum-and-200000x-less-than-bitcoin/

If you want to know what each blockchain consumes and its ratio depending on the TVL (Total Value Lock), these are the results:

|  |  |  |
| --- | --- | --- |
| Blockchain | Energy consumption | TVL per kWh |
| Polkadot | 70,237 kWh | $19.18 per kWh |
| Tezos | 94,120 kWh | $943 per kWh |
| Avalanche | 489,311 kWh | $18,454 per kWh |
| Algorand | 512,671 kWh | $161 per kWh |
| Cardano | 598,755 kWh | $120 per kWh |
| Solana | 1,967,930 kWh | $4,395 per kWh |
| 'thereum | 17,300,000,000 kWh |  |
| Bitcoin | 89,780,000,000 kWh |  |