

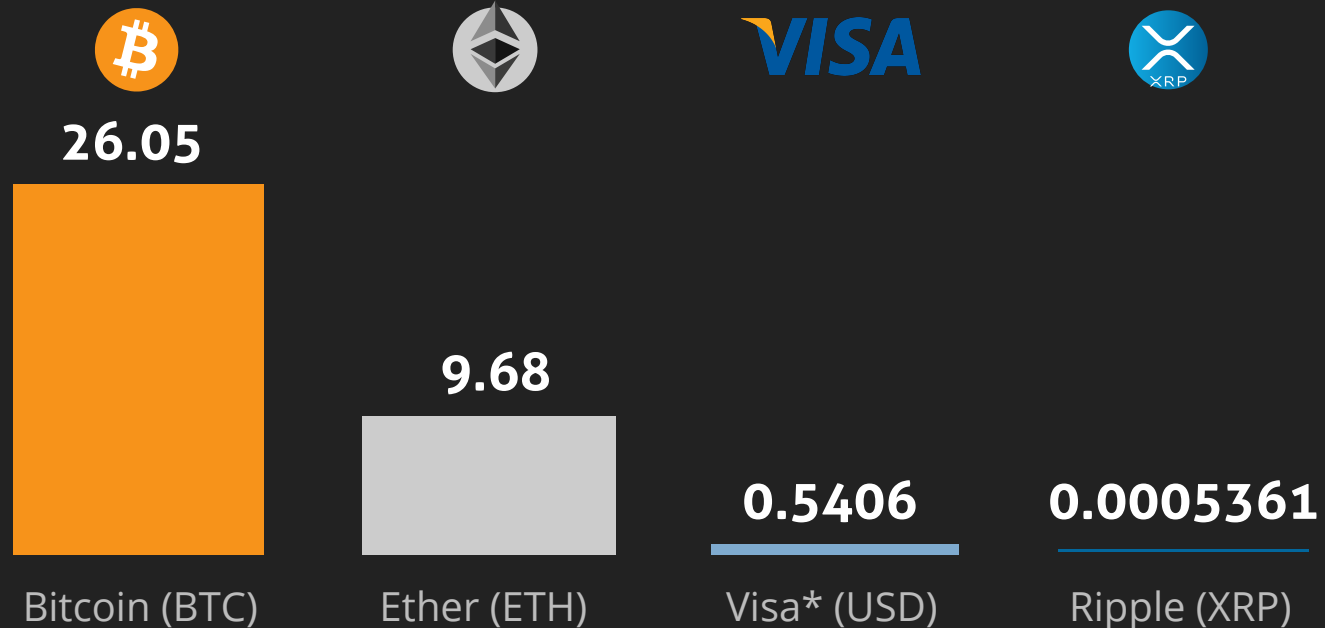
ECO-FRIENDLY CURRENCIES

Sid John Leopold and Niclas Englesson

SLIDE 1

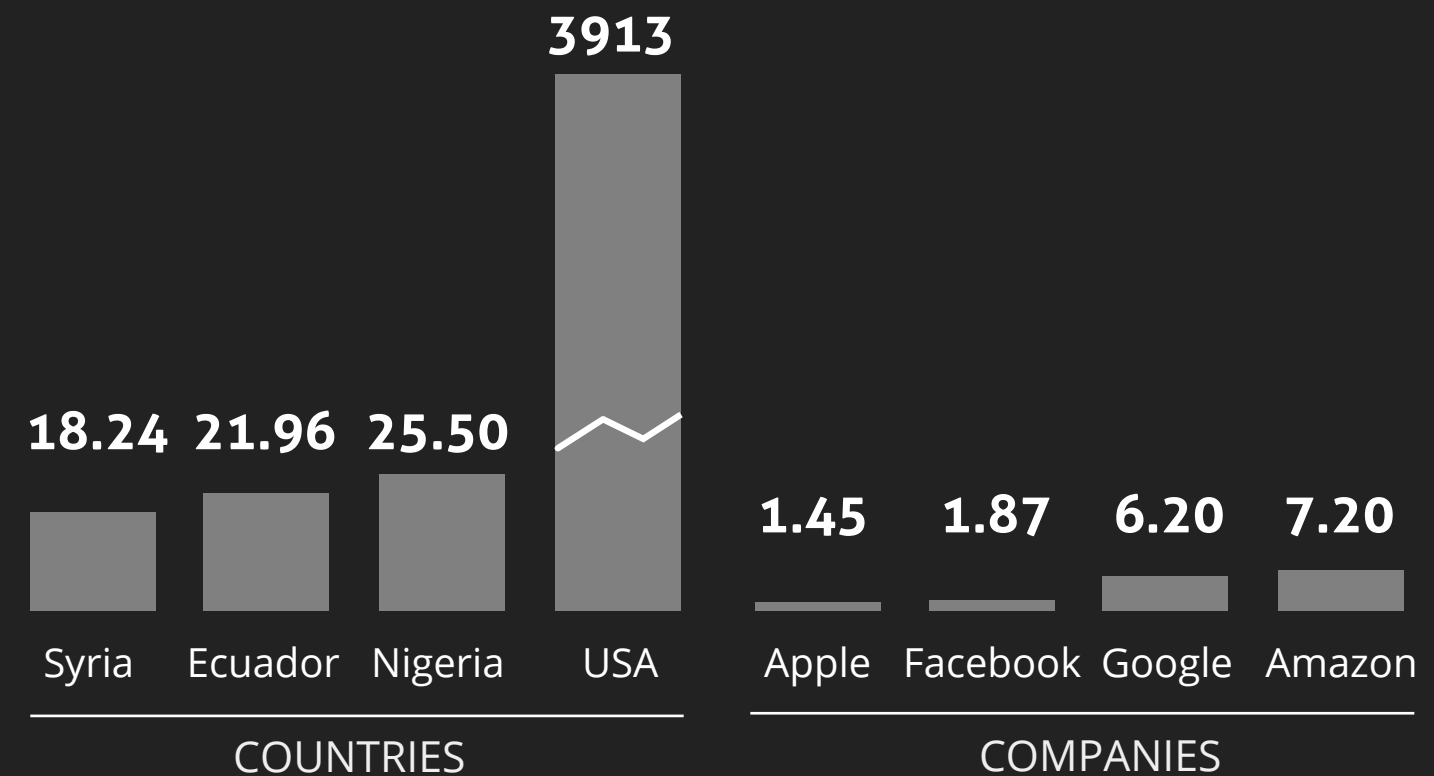
Annual electricity consumption

(cryptocurrencies; TWh)



* indicates electricity consumption via Visa network (USD)

Annual electricity consumption (TWh)



How much is 1 TWh?



Scotland has a population a little over 5 million and requires 25 TWh of electrical energy each year

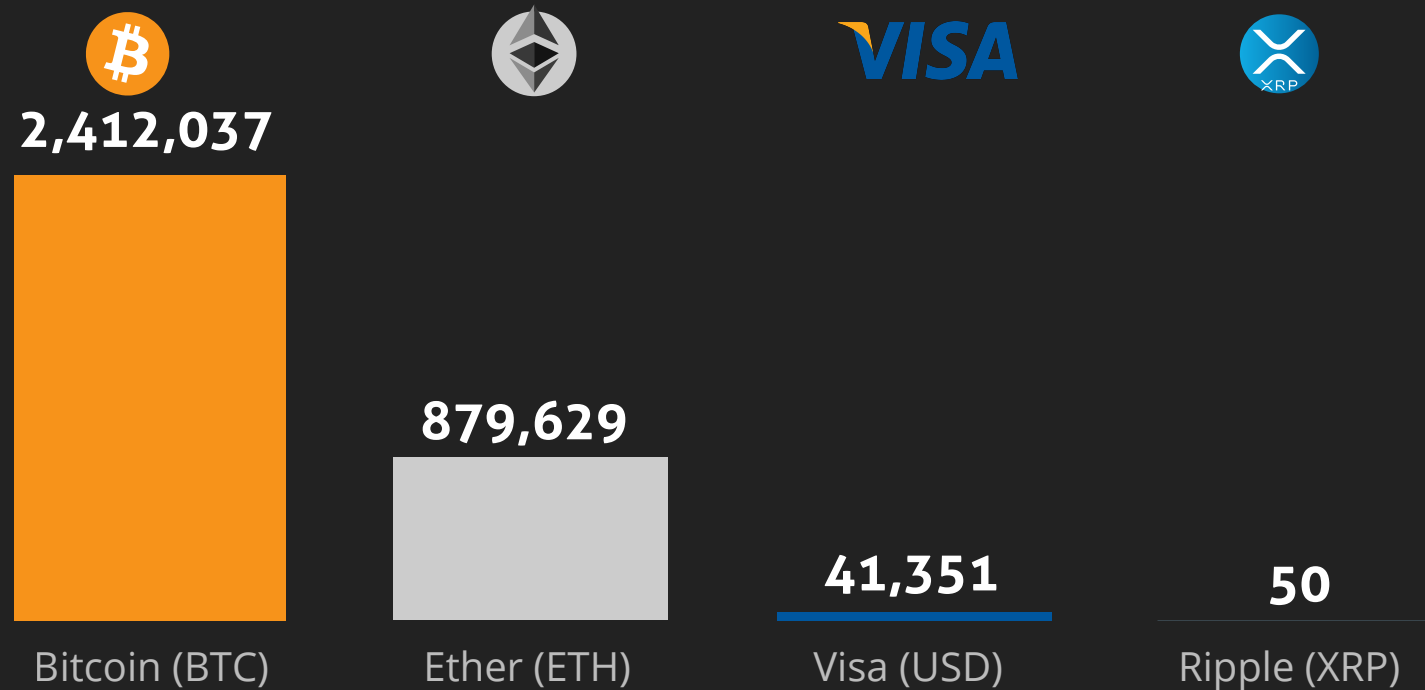
TWh = TeraWatt Hour = 1,000,000,000,000 Wh

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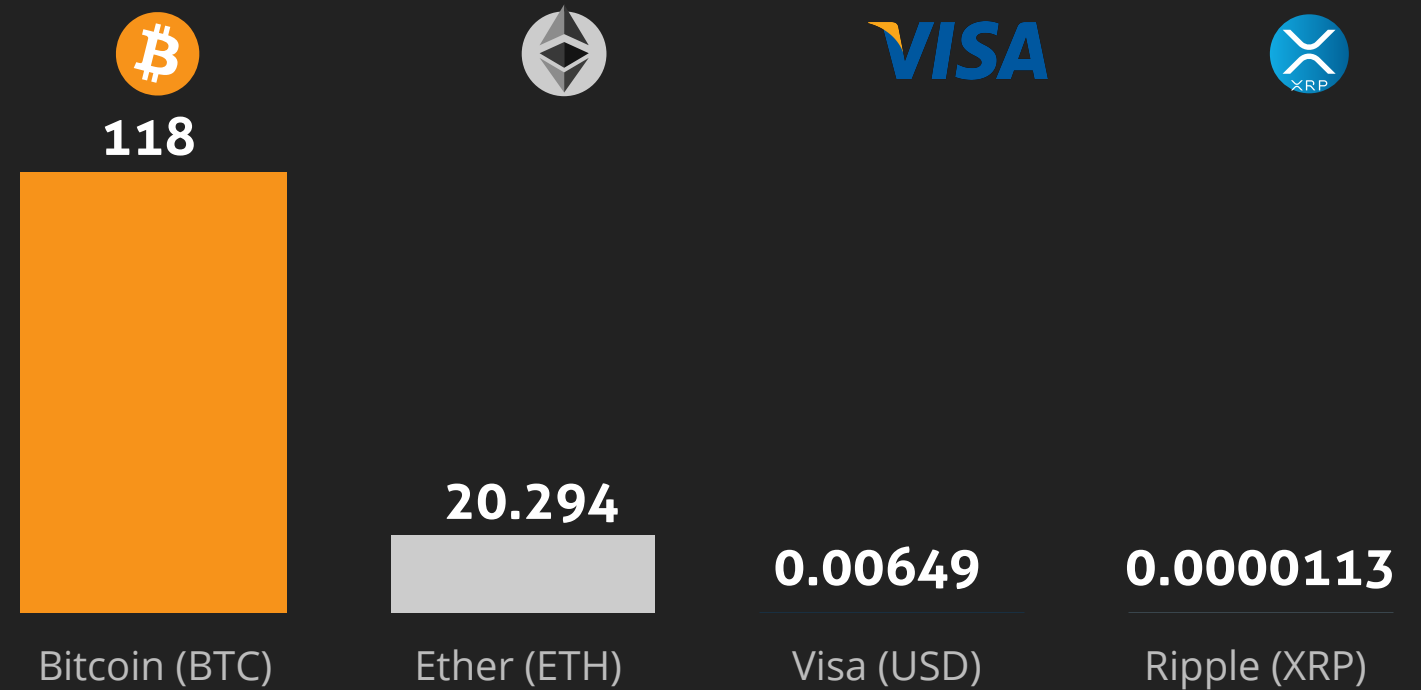
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SLIDE 2

Number of U.S. households that could be powered by each currency



Electricity consumed per transaction (KWh)



How much is 1 kWh?



Fan heaters require between 1 and 3 kW to power them, so if you leave it on for an hour it will have consumed between 1 and 3 kWh, depending on the setting you have the heater on.

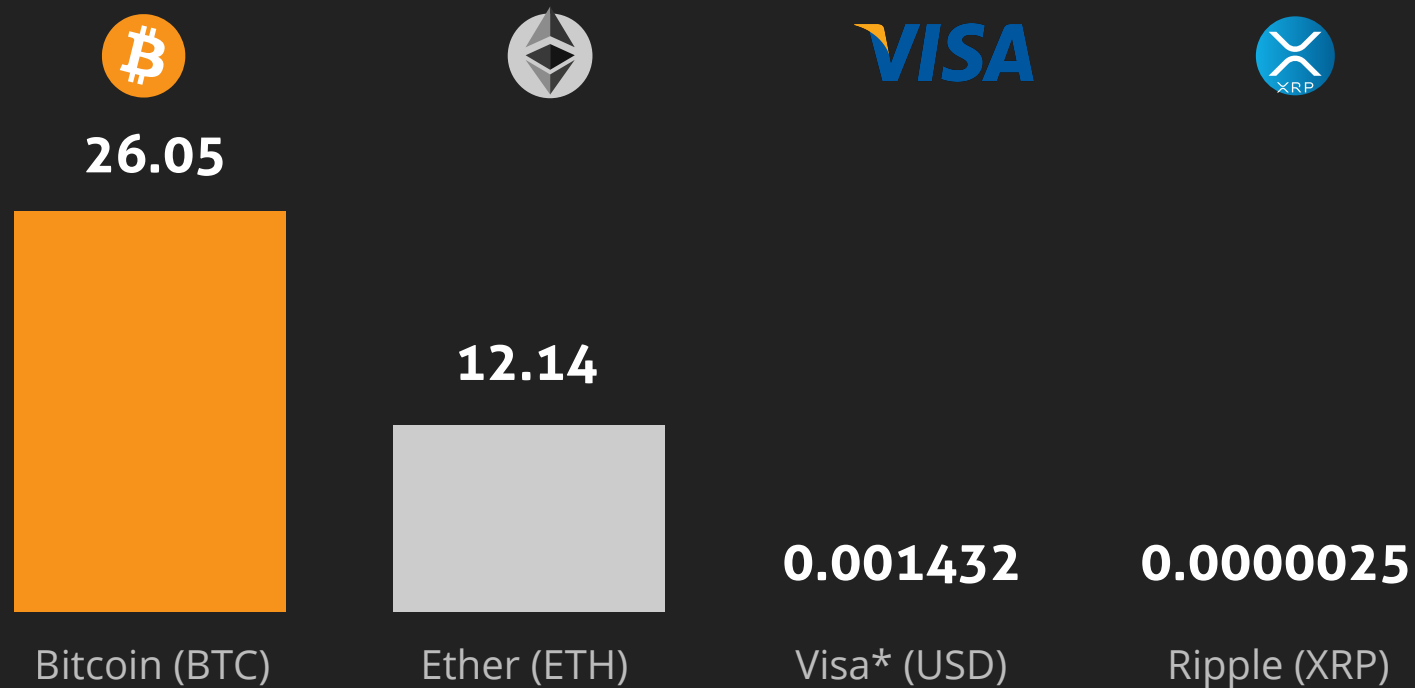
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SLIDE 3

Hypothetical annual electricity consumption with 220M transactions*

*Bitcoins hypothetical maximum per annum



Number of light bulbs, dishwashers and driven car miles that could be powered by the energy use of 220M transactions


	Light Bulbs	Dishwashers	Driven Car Miles
Bitcoin (BTC)	149 M	70 M	115 M
Ether (ETH)	69 M	32 M	52 M
Visa	8,177	3,826	6 M
Ripple (XRP)	14	6	11,018

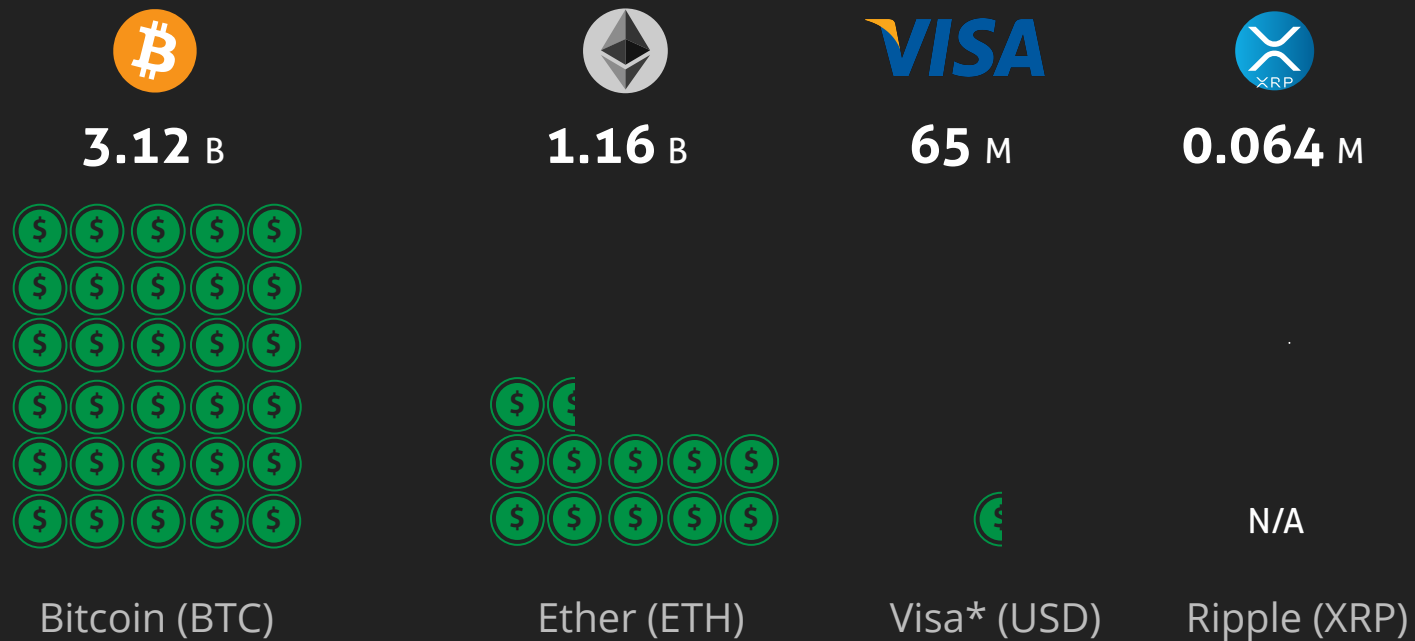
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SLIDE 4

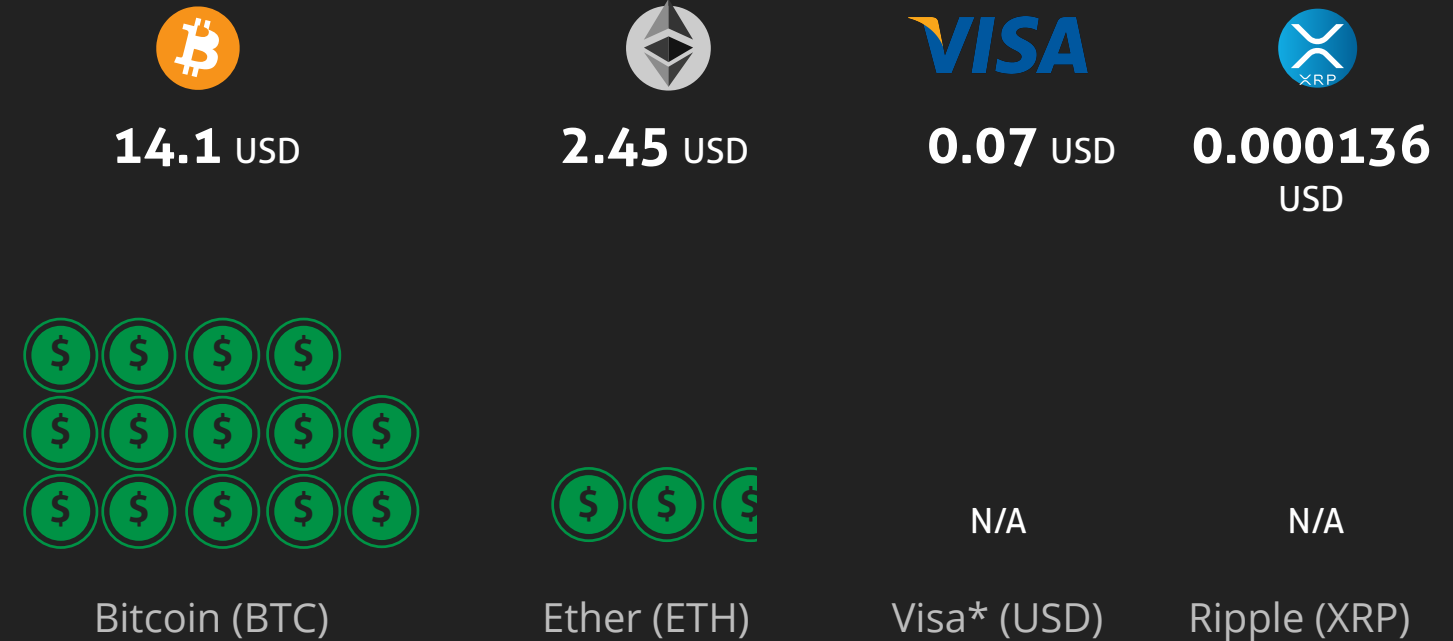
Cost in USD for current annual energy usage

(USD, billions)  = \$100 M



Cost in USD per transaction

 = \$1



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CONCLUSION

**XRP (RIPPLE) IS THE MOST SUSTAINABLE
AND THE MOST EFFICIENT CURRENCY
IN TERMS OF ENERGY CONSUMPTION**

XRP works as a bridge currency where the systems upholding the current currencies can utilize Ripple's XRP for moving their native assets more efficiently and consequently costing less in terms of electricity, CO2 emissions and cost less in any currency of your choice that you utilize with XRP.



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