

THESIS SUMMARY

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Thesis title: The Sustainability of Cryptocurrencies and the
Technology Behind It

Basis for writing the thesis :

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SUMMARY

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Ever wondered if the digital coins people or perhaps might as well you use impact the environment? They have the potential to shape our world in more ways than we realize! Imagine a world where money isn't just about wealth, but also about our planet's health. That's what I discuss in my thesis - the sustainability of cryptocurrencies. My thesis is like a big adventure exploring how digital money works. My goal is to help us learn about blockchain, the technology behind it all, and see how it affects our daily lives. The thesis is about the mysteries of cryptocurrency and its energy footprint, uncovering how these virtual coins relate to the air we breathe and the world we live in. It isn't just about understanding, but rather about unveiling the potential for positive change and sustainability.

In this exploration, we start with the basics, breaking down blockchain - the secret sauce behind cryptocurrencies. From Bitcoin to Ethereum, I analyze these digital currencies, even the "smaller" and not so famous ones like Polygon and Solana. I don't just stop at their names, I investigated their energy usage, comparing them to everyday things like sending emails or using banks. Then I also wrote about mining, the energy-thirsty backbone of these digital wonders, and about exploring renewable energy's potential to transform this landscape. But it's not just about technology. Elon Musk's tweets echo across the crypto space, sparking debates on sustainability. I'll dissect his influence, his role in shaping the market, and how his vision could redefine the industry's environmental impact. Not stopping there, we navigate the labyrinth of laws and regulations governing this digital realm, peeking into international organizations' involvement.

As our journey progresses, a crucial truth surfaces - renewable energy holds the key. It's not just about making transactions faster or cheaper; it's about transforming this digital world into a force for environmental good. From solar power to geothermal energy, I'm exploring how these innovations intertwine with the cryptocurrency landscape, shaping a greener, sustainable future.

Imagine a world where your vote is secure, your medical records are easily accessible yet completely private. That's the power of blockchain - a technology we're just beginning to grasp. Beyond currency, it holds the potential to revolutionize how we govern, how we store information, and even how we combat climate change.

The concept of carbon offsetting, once unfamiliar to many, could become a powerful tool in our fight against climate change, and blockchain technology could be its driving force. Think of blockchain as a guardian of trust and transparency, ensuring that your actions leave a positive mark on the environment. By adopting blockchain's convenience and transparency, we can open doors to initiatives that not only secure our data but also offset the carbon footprint of our transactions.

The future isn't just digital. It's about making our digital world sustainable. My thesis helps us discover the power we hold the power to transform a currency into a force for good.