Dash Greenpaper

Dash Green is Digital Cash You Can Spend Anywhere

Use Dash Green to make instant, private payments online or in-store using our secure open-source cryptocurrency hosted by thousands of users around the world.

Current State of the Digital Assets

Despite the pioneering efforts of Bitcoin and benefits such as improved security associated with Proof-of-Work (PoW) consensus algorithm, the cost of mining cannot be overlooked. At the peak of the crypto frenzy in late 2017, the cost of decent mining rigs ranged from anywhere around $1500 and above. This price does not include other associated costs such as electricity and cooling.

Recent research from the Oak Ridge Institute in Cincinnati, Ohio, puts the energy requirement of mining bitcoin at over twice of what is needed to mine most precious metals. For example, while it takes about 5 MJ (million joules) of energy to mine $1 worth of gold, it takes 19 MJ of energy to mine $1 worth of bitcoin. Other PoW cryptocurrencies are not left out of this equation.

Although this may not appear to be a problem in itself, the high costs of mining cryptocurrencies become very critical when subjects like global energy crisis and climate change are considered holistically.

Proof-of-Stake (PoS) consensus algorithm was suggested in 2011 and first implemented by Peercoin in 2012. The consensus algorithm eliminated the need for solving complex mathematical operations by miners, to validate transactions. Instead, "validators" are randomly selected to create the next block.

The amount of stake a user holds and how long they have been holding that particular cryptocurrency are some of the criteria used to select validators.

With regards to the costs required to run and validate transactions on PoW networks, PoS can be regarded as a more superior consensus protocol. This is because it requires far lesser electricity to run. Many existing and new blockchains either use the PoS protocol or have plans to migrate or implement a level of PoS consensus.

In addition to PoS, several blockchains are also adding masternodes to their network. The consensus is that masternodes add an extra layer of security, decentralization and functionality to a blockchain network.

"Masternodes host the entire blockchain (full nodes) and enable features such as InstantSend, PrivateSend, governance and voting."

In general, masternodes and PoS algorithm are without a doubt better for the world.

Introducing Dash Green

Dash Green, with the ticker DASHG, is an eco-friendly digital money system. It is eco-friendly because coins are created through a process known as "minting". Minting has a negligible effect on the environment – zero costs, zero environmental effects. It is also worth stating that all of Dash Green's sites are hosted in renewable energy data centers. This is particularly important at a time like this, where the effects of global warming are becoming more evident. We believe in contributing our quota to not just global decentralization, but a safer and greener environment.

Our network uses Proof-of-Stake and masternodes to enable "instant" and "private" transactions both online and in-store. In addition to being able to send DASHG to anyone, anywhere in the world, each transaction attracts a near-zero fee. Transactions are also kept anonymous and private through the implementation of Zerocoin Protocol.

"Dash Green is a unique fully-incentivized peer-to-peer network. Stakers are rewarded for securing the blockchain and masternodes are rewarded for validating, storing and serving the blockchain to users.

Masternodes represent a new layer of network servers that work in highly secure clusters called quorums to provide a variety of decentralized services, like instant transactions, privacy and governance, while eliminating the threat of low-cost network attacks."

Key Characteristics

- Proof-of-Stake

- Masternodes

- InstantSend

- Near-zero Transaction Fees

- Secured Network

- Zero Protocol

Coin Metrics

Ticker: DASHG

Algorithm: QUARK

Block Time: 60 Seconds

Coin Supply: 18,000,000

Masternode Collateral: 1,000 DASHG

Green Pay

Cryptocurrencies have undoubtedly proven themselves to be the payment option of the future – decentralized, transparent, anonymous, and secured. However, finding payment processors and where to use cryptocurrencies remain one of the primary barriers hindering wide-scale adoption. The situation has improved remarkably in comparison with 2 to 3 years ago. Nonetheless, there still a lot of ground to cover.

The saying that "time is money" has never been more relevant than in recent times. Delayed payments, limited payment options, high payment costs and security are some of the limitations of traditional payment processors.

Green Pay is a "Lightweight Payment Processor" that factors in key parameters like transaction speed, cost, ease-of-use, and size. The payment processor is anchored on our decentralized platform and focuses on using lesser energy/processing power, in line with our green vision.

Green Pay will be totally lightweight, making it easier to install and use on mobile devices for consumer-to-consumer transactions. Online merchants will also be able to seamlessly integrate Green Pay into their existing payment framework. Customers across the globe will be able to pay for products and services, or transfer funds almost instantaneously using DASHG.

GreenDEX

It is ironic, to say the least, that even though blockchain is touted for its decentralized nature, a large percentage of cryptocurrency transactions happen on centralized exchanges. Many of these exchanges operate in a similar manner to traditional financial institutions. The exchange is often privately-owned and operates within a well-defined jurisdiction. Customer funds are also held in centralized wallets controlled by these exchanges. This centralized nature of crypto exchanges nullifies and comprises the true essence of digital assets.

Interference from local regulatory authorities in the form of policies and laws, as well as an unstable regulatory environment, are some of the challenges centralized exchanges have to deal with.

The bottom line is that anything can go wrong with and on centralized exchanges and investors are always at the receiving end. The famous Mt Gox hack in February 2014 is a typical example. Investors are yet to recover their funds. More recently, CoinCheck and Bithumb in January and June 2018 are other cases of high-profile breaches exploiting the weakness of centralized exchanges. Bringing it even closer home, over 100,000 investors lost about $190 billion when the owner of Canada's largest crypto exchange, QuadrigaCX, died with the password to the company's asset stash.

The idea of decentralized exchanges (DEX) became popular in response to some of the concerns raised above. DEX facilitates peer-to-peer trading and transfer of digital assets on blockchain, without the need for a single coordinating unit or entity. So, instead of having all your digital assets sent to a centralized exchange in order for you

to trade, with a decentralized exchange, you can transact directly with another user. Think of it like trade by barter.

Our decentralized exchange, GreenDEX will not hold customer funds or information. Things like lengthy and cumbersome KYC and AML checks will not be required, since all that GreenDEX does is match trade orders on the platform.

GreenDEX allows for a trustless authentication and transfer of digital assets without interference from regulators, or the risk of losing funds.

"Take back the control of your funds and trades"

GreenDEX combines the responsiveness and user experience of a centralized exchange with the transparency and security of decentralized exchange. The platform will be a multi-crypto exchange, with DASHG being one of the primary digital assets.

Funds to be traded are locked in a specialized multi-signature wallet. Access to these funds is granted only to the trader, with restricted access to the Dash Green team.

A typical transfer case scenario will look like this:

Customer A wants to exchange 1BTC for 20ETH. He proceeds to create an account on GreenDEX. A specialized wallet is generated for him to deposit his 1BTC. Simultaneously, an order is created and he is matched with the best offer from other customers B, C, D, etc.

EcoNode & Cloud Staking

EcoNode is our energy-efficient home staking machine that will allow you to earn more from your favorite PoS cryptocurrency.

The chances of earning a significant amount from mining cryptocurrencies are very slim. EcoNode will replace expensive mining rigs, consume lesser energy, run 24/7, and allow you to stake your coins from your wallet.

Although users are not penalized for being offline when staking coins (unlike masternodes), the likelihood of earning more increases with your network uptime. Sadly, it is practically impossible to leave your Mac or PC on for 24 hours and connected to the internet just to stake coins. By using EcoNode, you will be able to stay connected to your network's servers wherever and whenever – in your office or bedroom.

With regards to coin options, we are working towards enabling the largest collection of PoS cryptocurrencies. You can be certain that you will be able to stake your favorite PoS on EcoNode.

In addition to our home staking machine, customers who may not want to purchase EcoNode have the option to deposit their coin on our cloud staking platform, while we handle the heavy lifting.