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About Theta Fuel (TFUEL)

Theta Fuel (TFUEL) is one of the two native tokens on the Theta Network. TFUEL should not be mistaken for Theta Token ([THETA](#)), which is the governance token of the Theta blockchain supported by thousands of community-run Guardian nodes and its Enterprise validators including Google, Binance, Blockchain ventures, Gumi and Samsung.

TFUEL is the second token (gas token) of the Theta blockchain that serves as the utility token in decentralized video and data delivery. This means that it is used to power all on-chain operations like payments to relayers for sharing a video stream, or for deploying and interacting with smart contracts, and as fees associated with transacting NTFs and DeFi applications.

In addition, it is also used to incentivize users in the ecosystem who share their redundant computing power as Edge Compute nodes as well as bandwidth resources as Edge Caching nodes for video streams and other data. Relayers earn TFUEL for every video stream they relay to other users on the network.

What Makes Theta Fuel Different?

Theta's main use case is decentralizing video streaming, data delivery and edge computing, making it more efficient, cost-effective and fair for industry participants. The network runs on a native blockchain, with two native tokens, known as Theta ([THETA](#)) and Theta Fuel (TFUEL), powering the internal economy.

Theta's appeal is threefold: viewers get rewarded with better quality streaming service, content creators improve their earnings and middlemen — video platforms — save money on building infrastructure and increase advertising, subscription revenues. Users have an incentive to both watch network content and share network resources, as rewards come in the form of TFUEL tokens.

The platform is open source, and token holders receive governance powers as with many proof-of-stake ([PoS](#))-based blockchain ecosystems. In addition to video, data and computing, Theta caters to developers looking to launch decentralized applications ([DApps](#)) such as DeFi and [NFTs](#) on its fully featured EVM-compatible smart contract platform.

How Is the Theta Network Secured?

The Theta Blockchain relies on a proof-of-stake consensus algorithm. It, however, adds a multi-level Byzantine Fault Tolerance (BFT) consensus mechanism on its [blockchain](#) to achieve better security along with higher transaction throughput.

At the time of Theta Mainnet launch in March 2019, Theta introduced Guardian Nodes. With the Guardian Node, no single entity controls the majority of THETA tokens being staked at any one time. This further helps the network achieve a high transaction throughput of 1000+ TPS.

Theta uses a financial incentive scheme to ensure user participation in governance activities, and hence its network is secured by its own users.

How Many TFUEL Coins Are There in Circulation?

As earlier mentioned, there are two coins in the Theta ecosystem; THETA and TFUEL. Both coins are used as the main tools for interaction on the Theta blockchain, yet serve different functions.

There are currently 5,232,675,200 TFUEL coins in circulation, which grows each year as new TFUEL is generated for staking rewards. Theta Tokens are fixed and at their max supply, which means there are 1,000,000,000 coins in circulation which will never increase.

Theta runs on the proof-of-stake algorithm, which means staking is possible. Since the amount of THETA in circulation is the max supply there will ever be, TFUEL is the reward for staking on the network. To qualify for staking, you have to stake at least 1,000 THETA to a Guardian Node or run your own Guardian Node.

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