DYFUSION

DYFUSION: A user-friendly, scalable blockchain built for creatives, backed by an appreciating asset that rewards its holders.

ABSTRACT. A new era of user- experience focused design in blockchain development is here. Dyfusion blockchain network is fortified with protocols and DApps that have AI incorporated in them to makes it easier for ordinary people to use the Dyfusion network.
Global financial market cap hit $124T in Q2 of 2025, and Crypto market cap was at 3.34T around the same period. With issues of technical barrier to entry & limited liquidity flow from traditional finance (TadFi) to Crypto, there is a significant constraint in the adoption of the crypto economy.
To encourage users and developers, we modeled it after the Ethereum PoS consensus layer as it has a proven record of security and success. Our language will also be the same Solidity language used to attract the Ethereum developer community and facilitate their easy onboarding to the Dyfusion blockchain.
In summary, copying the good part of Ethereum PoS, yet making it cheaper and easier to use will be the key in attracting the $124trillion from legacy finance into Crypto.

What is Dyfusion Network?

Dyfusion is a blockchain network primarily built to improve the user-experience of both crypto native and non-crypto savvy users, provide a scalable infrastructure for all creatives

to express themselves on-chain and deliver an asset that is designed to only appreciate through a unique coin design.

The core solutions Dyfusion aims to bring are:

- Reduce friction and deliver ease of use by making Interfacing DApps, tools and protocols user-friendly.
- Create onboarding systems, multi-language interfaces, fiat onramps and offramps to bridge the gap.
- Develop creator-focused smart contracts, templates, modular creator toolkits and SDK's to simplify development processes into just plug and play or drag and drop rollouts.
- Introduce a unique deflationary 5% tax system on all transactions of native coin that burns supply and rewards Alpha and Gamma miner holders. Note only native coin is taxed and users have the right to deploy their own tokens without taxes, transfer their tokens on the network also without taxes.

Types of holders:

- Alpha Miners. These are people who bought the tokens pre-TGE and as such qualify to receive reflections from a percentage of taxes airdropped to their wallets. This list will be finalized before TGE and cannot be updated after TGE.
- Beta Miners. These are people who only performed tasks like tweeting to receive their allocation. They do not qualify to receive reflections from taxes. This list will

be finalized before TGE and cannot be updated after TGE.

- Gamma Miners. These are minters/ holders of our OG NFT membership pass. They qualify and will receive reflections from taxes airdropped to them. This list will be finalized before TGE and cannot be updated after TGE.
- Delta Miners. These are contributors to the ecosystem who have purchased any of our validator devices and as such will receive an allocation reserved for them and redeemable by scanning their device ID on our app. The devices include smart phones, routers and Dyfusion box validator nodes. They will not however receive reflections from taxes. Their rewards will be validator rewards.

TAXATION AND ENTROPIC REFLECTIONS

Taxation is at 3 points: buying, selling and transfers. All taxes are the same. buy tax is 5%, sell tax is 5%, transfer tax is 5%

SELL-BUY-RATIO (SBR)

All reflections and allocations are automatically regulated by an SBR bot.
SBR or Sell Buy Ratio is defined as total integer value of sells divided by total integer value of buys.
Formula of SBR
SBR = Total sells ÷ Total buys

This means that the bigger the sell, the higher the SBR ratio as it approaches the polarities of positive integers. Allocations for reflections will have high rewards but low burn rates

The smaller the sell, the smaller the SBR ratio as it approaches the polarities of negative integers. Allocations for reflections will have low rewards but high burn rates.

Equal or almost equal buy and sell values will approach an SBR of 1 and that will be indicative of an equilibrium. Allocations for reflections will be a median of the upper and lower limits of opposite polarities of volatile states.

ALLOCATION TABLE ACCORDING TO SELL-BUY-RATIO(SBR)

Tier	SBR	Pre-Launch Buyers	NFT Holders	Token Burn Mechanism	Rationale
Accumulation	x<0.5	40%	25%	35%	Standard rewards for participation & strong deflation
Consolidation	0.5>0.8	42%	28%	30%	Stabilizing to encourage holding and maintain momentum
Equilibrium	0.8>1.2	45%	30%	25%	Neutral zone, supply & demand in balance. Priority shifts toward holders
Pressure	1.2>2.0	48%	32%	20%	Soften sell pressure with more direct incentives
Defense	2.0>3.0	57%	33%	10%	Maximum protection for long-term believers and defense of floor price
Recovery	x>3	60%	35%	5%	Reignite community strength and rebuilding momentum

DYFUSION THEORY

Dyfusion’s native coin is built to be deflationary with a burn mechanism that keeps burning till 50% of total supply is burnt forever. The allocation from the 5% taxes on all transactions

given to the token burn mechanism will continue till our target is reached. After which that allocation will be stopped. All taxations after burning 50% supply will be stopped permanently. All rewards connected to taxations will also be stopped at that point.

DYFUSION HALF-LIFE/NUCLEAR DECAY/EXPONENTIAL DECAY

Half-Life – Definition and Formula according to Nuclear Physics

Definition:

The half-life of a radioactive substance is the time required for half of the radioactive nuclei in a sample to decay. It is a measure of the rate at which a radioactive material undergoes nuclear decay and transforms into a different element or isotope.

Formula:

The half-life ($T_{1/2}$) is related to the decay constant (λ) by the equation:

$$T_{1/2} = \ln(2) / \lambda$$

Where:
- $T_{1/2}$ = half-life (in seconds, minutes, years, etc.)
- λ = decay constant (units: time^{-1})
- $\ln(2) \approx 0.693$

Exponential Decay Formula

To find the quantity of material remaining after time t:

$$N(t) = N_0 \cdot e^{(-\lambda t)}$$

Where:
- N_0 = initial quantity of the substance
- $N(t)$ = quantity remaining at time t

With Ethereum as a case study, we developed a model by using predictive analysis to project how long it will take to reach a 50% supply through our burn mechanism.

Preamble: Given that Ethereum has a total supply 120million ETH and the rate of burn (Dyfusion half-life/nuclear decay/ exponential decay) is at 75,000 ETH/day.
Total ETH to burn = 60 million ETH
At 75,000 ETH/day, the time to burn 60 million ETH:
60,000,000 ÷ 75,000 =800 days.
That's roughly 2 years and 2.5months.

PYTHON CODE CREATED FOR THE PREDICTIVE ANALYSIS

```
import numpy as np
import matplotlib.pyplot as plt

# Initial parameters
initial_supply = 120_000_000 # ETH
daily_tx_volume = 1_500_000 # ETH/day
burn_rate = 0.05 # 5% tax
days = 5000 # simulate for about 13.7 years

# Prepare array to store supply over time
supply = np.zeros(days)
supply[0] = initial_supply

# Simulate supply burn over time with exponential decay
for day in range(1, days):
daily_burn = burn_rate * daily_tx_volume
if daily_burn > supply[day - 1]:
daily_burn = supply[day - 1]
supply[day] = supply[day - 1] - daily_burn
if supply[day] <= initial_supply / 2:
halving_day = day
break
else:
halving_day = None

# Convert halving day to years and months
years = halving_day // 365
months = (halving_day % 365) // 30

# Plot supply decay over time
plt.figure(figsize=(10, 5))
plt.plot(supply[:halving_day+30])
```

```
plt.axhline(initial_supply / 2, color='r', linestyle='--', label='Half Supply')
plt.title('Supply Decay with 5% Burn Tax')
plt.xlabel('Days')
plt.ylabel('Supply (ETH)')
plt.legend()
plt.grid(True)
plt.tight_layout()
plt.show()

print(f"Time to halve supply: {years} years and {months} months (≈ {halving_day} days)")
```

At 50% supply, no more Dyfusion coins can be destroyed and the coin attempts to begin to satisfy the 1st law of Thermodynamics and the Law of Conservation of Energy, that says that "Energy can neither be created nor destroyed". Since it cannot be created or destroyed anymore, it then truly becomes energy. A form of digital energy comprised of the financial power of a global ecosystem that serves as a store of value and a mode of payment.

STEPS TO EXPEDITE DYFUSION HALF-LIFE (NUCLEAR DECAY)

- **Build a developer and user centered community with incentives for developers/new builders to boost usage of chain, increasing transactions per second (TPS) and directly impacting half-life.**
- **Launch a token following the XEN crypto token model to be given freely to the community and spike burn rates through gas transactions.**

- Incentivize validator participation by launching native community node devices with an app and perks to encourage participation in the network.

TO PROJECTS BUILDING ON DYFUSION NETWORK

- Taxes are only on the transactions of the native Dyfusion coin. Meaning you can develop all your protocols, tokens and NFTs without having any taxes on them on the network. You have full control over your logic and you can decide how you want your contracts to function. Therefore, the taxes are only on transferring the Dyfusion coin but not on any other token built on the network.

CONCLUSION

Dyfusion is more than a blockchain. It is a high-performance financial engine built to unlock the next wave of global capital migration into digital assets. By leveraging the battle-tested Ethereum PoS architecture and enhancing it with a superior user experience, lower costs, and creator-first tooling, Dyfusion positions itself as the natural onramp for traditional capital into decentralized finance. The network's deflationary design is not just a supply control mechanism, but an economic transformation strategy. As 50% of the supply is permanently burned, Dyfusion transitions from a transactional currency into a form of digital energy, satisfying the law of conservation by becoming non-inflationary, non-dilutive, and self-sustaining. This milestone redefines its token

from a utility asset to a long-term store of value. With native incentives for validators, developers, NFT creators, and end users, Dyfusion aligns every stakeholder toward one goal: rapid adoption and sustained value creation. The chain is open, tax-flexible for developers, and positioned to encourage global adoption. Dyfusion offers a clear proposition: a deflationary, user-friendly blockchain with AI-integrated apps, exponential upside, real utility, and a roadmap grounded in both economic physics and ecosystem logic.

The future of digital value is forming.
Dyfusion is where it begins

REFERENCES

1. Buterin, V. (2022). "A Proof-of-Stake Finality Mechanism for Ethereum." Ethereum Foundation. https://ethereum.org/en/whitepaper/
2. CoinMarketCap. (2025). "Global Cryptocurrency Market Capitalization." https://coinmarketcap.com/global-charts/
3. World Bank. (2025). "Global Market Capitalization Data Q2." https://www.worldbank.org/en/research
4. Nakamoto, S. (2008). "Bitcoin: A Peer-to-Peer Electronic Cash System." https://bitcoin.org/bitcoin.pdf
5. OpenZeppelin. (2024). "Solidity Smart Contract Development Standards." https://docs.openzeppelin.com/contracts/
6. XEN Crypto. (2022). "XEN Tokenomics and Community Minting Model." https://xencrypto.io/
7. International Atomic Energy Agency (IAEA). (n.d.). "Half-life and Exponential Decay: Nuclear Physics Overview." https://www.iaea.org
8. Halliday, D., Resnick, R., & Walker, J. (2013). "Fundamentals of Physics" (10th ed.). Wiley.
9. NumPy Developers. (2024). "NumPy: Fundamental Package for Scientific Computing in Python." https://numpy.org/doc/
10. Matplotlib Development Team. (2024). "Matplotlib: Visualization with Python." https://matplotlib.org/stable/users/index.html