



PEPEPOW Whitepaper



A Community-Driven Ecosystem for Blockchain Enthusiasts

***From Memes to Momentum
Built to Meme, Built to Last***

***It is not the strongest of the species that survives, nor the
most intelligent; it is the one most adaptable to change.***

— Charles Darwin



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I. Introduction

This whitepaper aims to present the history, technology, specifications, community governance, and future development directions of the PEPEPOW project. PEPEPOW is committed to creating a **community-driven, transparent, stable, and adaptable** ecosystem, enabling crypto enthusiasts, miners, node operators, and developers to collectively drive the project's evolution.

As Darwin said, survival depends on adaptability to change. PEPEPOW embodies this spirit by emphasizing continuous learning, growth, and evolution in a fast-changing market environment. It empowers the community to participate and leave their mark on the ecosystem.

Disclaimer: This document does not constitute financial or investment advice. It serves as a reference for the technical and community governance aspects of the PEPEPOW project. Any future policy, protocol, or technical changes related to the project may be adjusted based on community consensus and actual needs.

II. Project Background and Origin

2.1 Origin and Vision

- **Launch Date:** PEPEPOW launched its Genesis Block on May 12, 2023, inspired by the PePe meme culture and the principles of decentralized currency.
- **Objective:** To provide a continuously evolving blockchain platform where developers, miners, node operators, holders, builders, and contributors worldwide can collaborate, benefit, and contribute to the community.
- **Principles:**
 1. **Community-Driven:** Governance and decision-making power are decentralized to the community through voting, discussions, and transparent mechanisms.
 2. **Open Collaboration:** Continuous exploration of cross-chain collaborations, multi-liquidity pools, and other integrations to foster synergies.



3. **Adaptability:** Flexibility in technical specifications, supply mechanisms, and reward models to meet market trends and community needs.

2.2 Milestones

Key events since the project's inception:

- 2023/05/12: Genesis Block launched.
- 2023/08/10: First hard fork; the community agreed to remove founder fees and update the core wallet.
- 2023/09/25: Listed on CoinGecko, improving market visibility.
- 2023/10/08 - 10/15: DAO nominations and appointments marked a new stage of community governance.
- 2024/01/14: Community vote approved a 5% developer fee for project development and integration needs.
- 2024/02/24: New Discord server launched to improve security and communication.
- 2024/08/29: Algorithm updated to XelisV2-pepew to improve mining and block production.
- 2024/12/24: IEO campaign on Dex-Trade expanded external exposure.
- 2026/04: Mandatory HooHash V110 hard fork introduced a new mining era for PEPEPOW, requiring node operators, miners, and pool operators to upgrade.
- 2026 and beyond: PEPEPOW development increasingly uses AI-assisted coding, debugging, documentation, monitoring, and community support workflows to help a small community maintain and expand the ecosystem more efficiently.

More details can be found through the PEPEPOW community website, project GitHub, explorers, and community channels.



III. Core Technology and Specifications

3.1 Consensus Mechanism and Algorithm

- **Algorithm:** PEPEPOW was initially adapted from Dash's Memehash, later transitioned to XelisV2-pepew, and subsequently moved to HooHash V110 through a mandatory hard fork.

- **Key Features:**
 1. **Speed and Cost:** PEPEPOW targets an average block time of approximately 20 seconds, enabling fast transaction confirmation with low fees.
 2. **HooHash Mining:** The HooHash V110 transition created a new mining phase for PEPEPOW. Miners, pools, and node operators must follow the current HooHash-compatible software requirements and network rules.
 3. **CPU and GPU Mining Ecosystem:** Compared with the earlier XelisV2-pepew phase, the HooHash era supports a broader mining ecosystem, including CPU and GPU mining tools. Mining software, performance, and compatibility may continue to evolve.
 4. **Security and Upgrade Discipline:** Mandatory protocol upgrades are used when necessary to protect network consensus. Node operators, miners, pools, and masternode operators should monitor release notes and community announcements to avoid running obsolete software.
 5. **Privacy Options:** Built-in privacy-oriented transaction features remain available for users who prefer transaction modes similar to cash-based confidentiality.

3.2 Dual Reward Mechanism: Miners and Masternodes

- **Dual Rewards:** Each block reward is distributed as 65% to miners and 35% to masternodes.

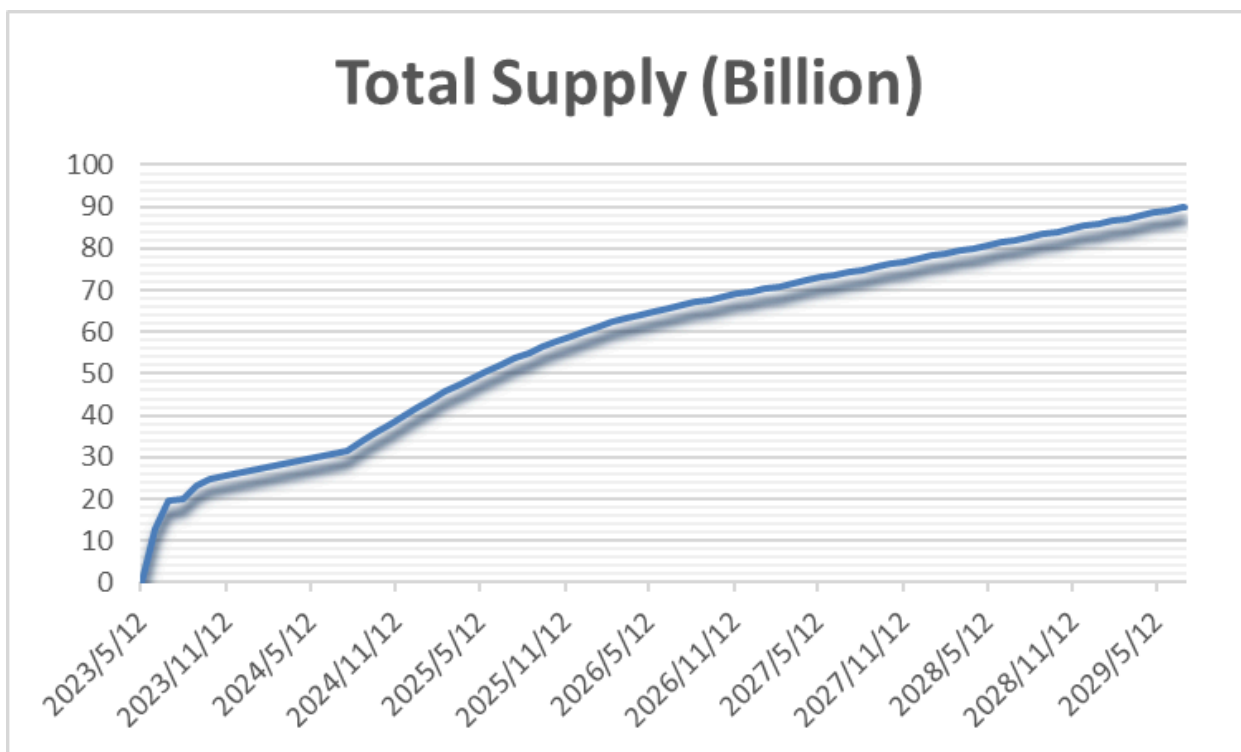
- **Masternodes:**
 - **Role:** Assist in governance, transaction acceleration, and consensus maintenance.



- **Requirements:** A collateral of 10,000,000 PEPEW and appropriate node configuration in the wallet.
- **Benefits:** Block rewards and governance voting rights to participate in proposals and decisions.

3.3 Reward Allocation and Supply Curve

- **Block Time:** Average of 20 seconds.
- **Block Rewards:** Gradually decrease with block height to ensure high early liquidity, with **Super Blocks** for tail emissions.
- **Super Blocks:** Every 1000 blocks, one "Super Block" rewards 2–5x the base block reward. When the total supply reaches 90 billion, only Super Blocks will issue small emissions to offset lost coins over time.
- **Initial Blocks:** High rewards (100,000 PEPEW) were allocated in the early blocks to incentivize participation and provide liquidity.
- **Subsequent Reductions:** Rewards gradually decrease, reaching a steady state to stabilize the token supply.
- **Long-Term Supply:** Beyond block 2,318,800, rewards are reduced by 500 PEPEW every 129,600 blocks until reaching a minimum of 5,000 PEPEW.
- The chart below illustrates the historical and future reward allocation, including the gradual reductions and the periodic Super Blocks.



Blocks Range	Reward (PEPEW)
1 - 129600	100,000
129601 - 259200	50,000
259201 - 385000	5,000
385001 - 514600	25,000
514601 - 644200	12,500
644201 - 773800	6,250
773801 - 1930000	5,000
1930001 - 2059600	17,000
2059601 - 2189200	16,500
2189201 - 2318800	16,000
>2318800	Reducing by 500 every 129,600 blocks until a minimum of 5,000



3.4 Wallet and Developer Fees (DevFee)

Version Updates:

- From v2.4.4.2, a 5% Dev Fee was implemented: 1% to main developers and 4% to DAO escrow participants.
- After the HooHash V110 hard fork, users should always check the project GitHub releases before installing or upgrading. Some releases are mandatory for consensus compatibility, while others are recommended or optional for stability, hardening, or platform-specific fixes.
- Wallet operators, miners, masternode operators, and pool operators should avoid relying on outdated binaries after mandatory hard forks.

Wallet Types:

- Desktop Wallet: Available for Windows and Linux, including x86_64 and AARCH64 builds when provided.
- Web Wallet: The community has explored **non-custodial web wallet** development for easier onboarding. Users should verify that they are using the current recommended wallet service and should not keep large balances in legacy or beta wallet services.
- Mobile Wallet: Mobile wallet support remains an important direction for broader adoption. Availability and integrations may change over time.

Safety Reminder:

- Users should back up wallet files, private keys, and recovery information before upgrades.
- Legacy services may be retired when safer replacements are available.
- Community members should verify wallet links through trusted community channels before use.

IV. Community Governance and DAO Structure

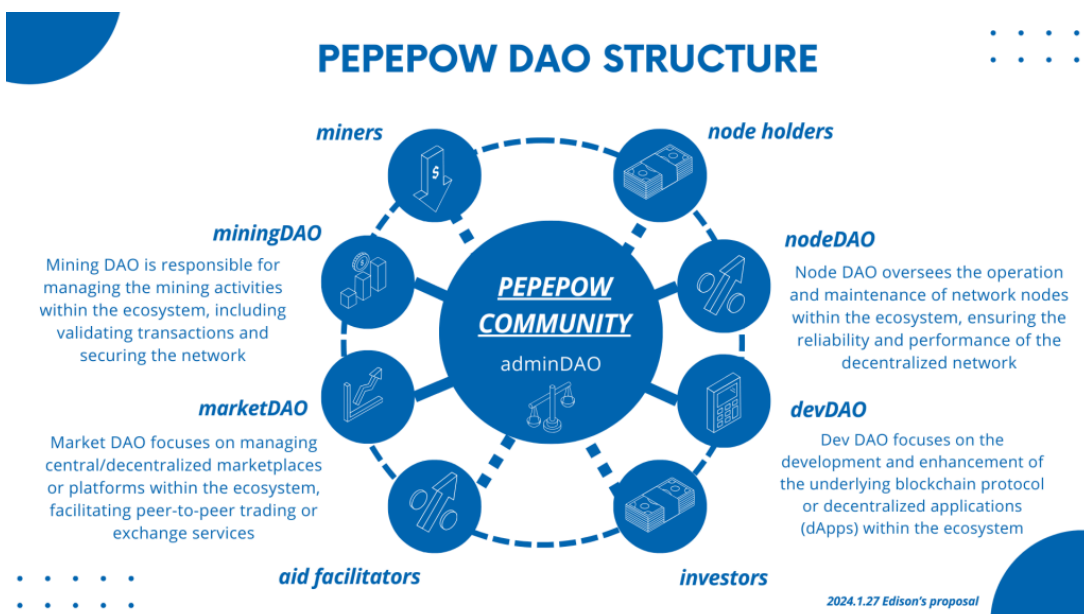
4.1 Decentralized Autonomous Organization (DAO)

PEPEPOW relies on DAO for core governance, allowing community members to actively participate in decision-making. DAO branches include:

1. **adminDAO**: Manages administration and financial allocations.



2. **miningDAO**: Focuses on mining-related policies, community operations, and algorithm proposals.
3. **nodeDAO**: Addresses masternode configurations, protocol parameters, and rewards.
4. **marketDAO**: Oversees exchange integrations, liquidity, marketing, and partnerships.
5. **devDAO**: Focuses on core development, wallet updates, and technical advancements.



Each branch independently handles proposals and ensures transparency by publishing results.

4.2 Voting Mechanism

- **Platform**: Voting happens mainly on Discord, with Twitter and Telegram offering supplementary input. Future plans include a DApp for better transparency.
- **Process**:
 1. **Proposal Announcement**: Proposals are shared on Discord and community channels with clear descriptions and objectives.
 2. **Discussion Period**: A set time is allocated for community feedback and adjustments, focusing on Discord, with input from other platforms.



3. **Voting Period:** Voting is open long enough to ensure fairness. Discord results carry the most weight, with other platforms providing additional insight.
4. **Execution:** Approved proposals are carried out by DAOs or developers, with progress updates shared.

4.3 Funding and Financial Management

- **Funding Sources:**

- Community donations.
- Mining pool contributions via community-designated or community-recognized pools.
- 4% of the 5% developer fee allocated to the DAO.

- **Fund Usage:**

1. **Grants:** Financial support for projects that benefit the ecosystem, such as DEX integration or enterprise applications.
2. **Network Infrastructure:** Rewards for developers, community managers, public relations, and maintenance teams.
3. **Reserve Fund:** A contingency fund for emergencies or project rescues, with diversified asset allocations.
4. **Marketing:** Promotion campaigns, outsourced projects, sponsorships, and event budgets.

4.4 AI-Assisted Development and Operations

PEPEPOW is a community-driven project with limited resources, so AI-assisted workflows can help extend the capacity of developers, maintainers, node operators, and documentation contributors.

AI tools may be used to support:

1. **Code Review and Debugging:**

- Reviewing wallet, explorer, pool, and API code.
- Finding likely causes of sync, mining, RPC, or deployment issues.
- Generating test cases and checking edge cases.



2. Infrastructure and Monitoring:

- Assisting with node, explorer, ElectrumX, API, pool, and website maintenance.
- Creating monitoring scripts, alert logic, and operational checklists.
- Helping operators summarize logs and detect abnormal behavior.

3. Documentation and Community Support:

- Producing clearer mining guides, wallet guides, masternode tutorials, and troubleshooting notes.
- Building AI helper bots or FAQ tools for newcomers.
- Translating and simplifying technical material for multilingual communities.

4. Governance and Transparency:

- Summarizing proposals, discussions, and technical options.
- Helping DAOs compare implementation paths before community voting.
- Supporting community contributors who are learning as they build.

AI assistance does not replace human responsibility. Security-sensitive changes, wallet releases, protocol upgrades, treasury operations, and public announcements should still be reviewed by experienced community members before deployment.



V. Current Status and Market

5.1 Market Access and Liquidity

- PEPEPOW is an early-stage community cryptocurrency. Exchange availability, liquidity, and trading volume may change over time as market conditions, exchange policies, community activity, and technical development evolve.
- Rather than relying on a fixed list of exchanges in this whitepaper, users should refer to the PEPEPOW community website, explorers, and active community channels for current market access information.

5.2 Market Volatility

- As an early-stage project, PEPEPOW's price and volume can be highly sensitive to large trades, mining activity, exchange availability, announcements, and broader market sentiment.
- Community development, miner participation, wallet accessibility, infrastructure reliability, and transparent communication are important factors for long-term resilience. However, none of these factors guarantees price performance.

5.3 Distribution and Rich List

- PEPEPOW is publicly distributed through mining, masternode rewards, market activity, and community participation.
- The rich list and address distribution can be reviewed through PEPEPOW explorers when available. Explorer availability and URLs may change as infrastructure improves.

5.4 Risk Reminder

This whitepaper is for technical and community reference only. It is not financial advice, investment advice, legal advice, or a guarantee of future value. Users should evaluate risks independently before mining, operating nodes, trading, holding, or building services around PEPEPOW.



VI. Future Development and Roadmap

The PEPEPOW roadmap focuses on practical infrastructure, wallet accessibility, developer tools, community applications, and long-term ecosystem expansion. Roadmap items may be reordered, merged, delayed, or revised based on technical feasibility, contributor availability, funding, and community consensus.

6.1 Core Infrastructure

1. API Server

- Purpose: REST backend for wallets, explorers, and external applications.
- Role: Provides fast balance, transaction, and network queries without requiring every application to operate a full custom backend.

2. ElectrumX Server

- Purpose: Lightweight backend for SPV and light wallets.
- Role: Enables fast address balance and transaction history queries without full node synchronization.

3. Masternode / Staking Tools and Monitoring

- Purpose: Tools and dashboards for masternode setup, reward tracking, status alerts, and operator visibility.
- Role: Helps node operators maintain network stability and respond to problems earlier.

6.2 Wallets and User Access

1. Non-Custodial Web Wallet

- Purpose: Browser-based wallet for key generation, balance viewing, and transaction sending without a custodian.
- Role: Improves onboarding while keeping user control of private keys.

2. Mobile Wallet

- Purpose: Android and iOS wallet with fast sync, PIN or biometric protection, QR scanning, and notifications.
- Role: Makes PEPEPOW easier to use for daily transfers and broader community adoption.

3. Telegram Mini Wallet Bot

- Purpose: Social wallet inside Telegram for tipping, micro-payments, and easy onboarding.



- Role: Supports community engagement and small-value transfers.

4. Multi-Signature Vault Wallet

- Purpose: Secure multi-signature treasury wallet for teams or DAOs.
- Role: Improves treasury safety by supporting approval workflows and optional time-locks.

6.3 Developer and Application Tools

1. JS/TS SDK (pepew-js)

- Purpose: Unified JavaScript and TypeScript toolkit for key derivation, transaction building, signing, and REST/WebSocket integration.
- Role: Makes it easier for developers to build wallets, payment tools, dashboards, and applications.

2. PepewPay - Payment Link / POS PWA

- Purpose: One-page merchant payment system with payment links, QR codes, and live confirmation.
- Role: Supports simple in-store and online PEPEW payments.

3. PEPEW Inscriptions and Viewer

- Purpose: On-chain creative ecosystem with explorer-based viewing.
- Role: Expands PEPEPOW use cases beyond transfers and mining.

4. Unity Game Kit v1

- Purpose: Demo toolkit for integrating PEPEPOW into Unity games.
- Role: Allows game developers to experiment with earning, spending, and wallet interaction inside games.

6.4 Cross-Chain and Liquidity Expansion

1. Minimal Oracle Gateway

- Purpose: Signed and verifiable price or event feeds for bridges and external applications.
- Role: Supports future cross-chain integrations and application-layer use cases.

2. Liquidity Pool with Wrapped PEPEW

- Purpose: Deploy wrapped PEPEW on EVM or other chains and create a USDT/wPEPEW liquidity pool.
- Role: Improves trading access and price discovery.

3. DEX Aggregator Integration



- Purpose: Integrate wrapped PEPEW into major DEX aggregators.
- Role: Expands visibility and improves user access to liquidity.

6.5 Community Education and AI Support

PEPEPOW will continue improving documentation for wallet setup, mining, masternodes, APIs, explorers, and developer tools.

AI-assisted FAQ systems, helper bots, documentation generators, and monitoring agents may be used to reduce the barrier for new users and make community support more scalable.



VII. Wallet Setup, Nodes, and Mining Guide

PEPEPOW provides tools and documentation to help users, miners, and node operators participate in the network.

1. Wallet Download:

- Users should download desktop wallets from the project [GitHub](#) or verified community links.
- Desktop wallets may be available for Windows and Linux, including x86_64 and AARCH64 builds when provided.
- Users should always verify that they are using the correct post-hard-fork version when a mandatory release is announced.

2. Mining:

- PEPEPOW mining currently belongs to the HooHash era.
- Miners should use current HooHash-compatible mining software and follow updated pool or solo mining instructions.
- CPU and GPU mining tools may differ by platform, architecture, and driver environment.
- Mining documentation should be updated whenever wallet releases, algorithms, pool endpoints, or miner software change.

3. Masternode Setup:

- Masternodes help support governance, transaction services, and network stability.
- Masternode operators should monitor mandatory release notes carefully.
- After some protocol upgrades, masternode operators may need to restart or reactivate masternodes after the node has resynchronized.

4. Infrastructure:

- Explorers, APIs, ElectrumX servers, web wallets, and monitoring dashboards are important parts of the PEPEPOW ecosystem.
- Infrastructure operators should use backups, monitoring, logs, and staged upgrades to reduce downtime.

Complete documentation can be found at:

- [PEPEPOW website](#)
- [PEPEPOW Discord](#)



VIII. Mining Software and Pool Infrastructure Development

Mining and pool infrastructure are essential parts of the PEPEPOW ecosystem. After the transition to HooHash V110, PEPEPOW requires updated mining tools, pool software, monitoring scripts, and operator documentation to support a stable post-hard-fork network.

Key development directions include:

1. Mining Software Support:

- Maintain clear setup instructions for CPU and GPU miners.
- Improve compatibility across Windows, Linux, x86_64, AARCH64, NVIDIA GPU, and AMD GPU environments where possible.
- Provide example configurations for solo mining and pool mining.
- Document known issues, driver requirements, performance tuning notes, and troubleshooting steps.

2. Pool Infrastructure:

- Develop and maintain HooHash-compatible mining pool software.
- Improve Stratum handling, share validation, block candidate detection, and reward accounting.
- Add better logging, monitoring, and alerting for pool operators.
- Provide safer default configurations to reduce misconfiguration risks for new pool maintainers.

3. Network Health and Decentralization:

- Encourage multiple independent pools to avoid excessive hashrate concentration.
- Support transparent pool statistics, miner hashrate tracking, and block discovery history.
- Help new pool operators deploy and maintain infrastructure using clear community documentation.

4. AI-Assisted Development:

- AI tools may assist with code review, debugging, log analysis, test generation, monitoring scripts, and documentation.



- Human review remains necessary for consensus-sensitive logic, payout handling, wallet integration, and production deployment.

Mining software and pool development are not only technical tasks. They directly affect network security, miner participation, decentralization, and long-term ecosystem resilience.



IX. Visual Identity and Community Media

PEPEPOW's visual identity reflects the same spirit as its Proof-of-Work foundation: effort, persistence, community contribution, and forward movement.

The PEPEPOW visual reference guideline provides a shared baseline for images, videos, websites, wallets, presentations, and social media materials. It is non-binding and exists to support creativity rather than restrict it.

Common visual themes may include:

1. Proof-of-Work Spirit:
 - Effort, persistence, construction, and accumulated contribution.
 - Mining, building, coding, and maintaining decentralized infrastructure.
2. Mascot and Character Direction:
 - Pepe the Frog may be used as a PEPEPOW mascot in original interpretations.
 - Common character concepts include miner, builder, developer, explorer, or community contributor.
 - A bright yellow miner helmet, glowing headlamp, and utility outfit can symbolize decentralized work and network maintenance.
3. Brand Integration:
 - PEPEPOW text may be integrated into clothing, badges, helmets, tools, or visual elements.
 - Text should be clear, correctly spelled, and part of the design rather than floating captions or unrelated subtitles.
4. Creative Freedom:
 - Futuristic semi-realistic cartoon, cinematic, painterly, anime-inspired, minimalist, technical, and abstract styles are all acceptable.
 - Community artists and AI-assisted creators are encouraged to experiment as long as the work reflects a constructive, contribution-oriented spirit.

Visual identity is not only marketing. It helps the community explain PEPEPOW's values in a way that is easier to understand, share, and remember.



X. Conclusion

PEPEPOW's core values are rooted in decentralized governance, community-driven development, Proof-of-Work participation, and adaptability.

From its early Memehash origin to XelisV2-pepew and later HooHash V110, PEPEPOW has shown that a small community can continue learning, upgrading, and rebuilding when conditions change.

The project's future depends on practical infrastructure, reliable wallets, mining participation, transparent governance, careful risk management, creative community identity, and responsible use of AI-assisted development tools.

PEPEPOW is not only a meme coin. It is a community experiment in persistence, adaptation, and decentralized contribution.

Thank you for supporting PEPEPOW. Together, the community can keep building a stronger and more useful decentralized ecosystem.

