BRN Whitepaper v1.0

Project Name:

BRN - Burn Relationship Network

Project Vision:

In an era of increasing distrust, BRN proposes a crypto-economic model that promotes trust, cooperation, and reputational signaling through innovative on-chain mechanisms.

Unlike speculative tokens, BRN is not designed for price appreciation. It serves as a functional trust token, aiming to deter dishonest behavior and foster collaboration within decentralized environments.

1. Core Mechanisms

1.1 Bilateral Burn Mechanism

Definition:

When user A initiates a burn targeting user B, both A and B lose an equal number of BRN tokens from their wallets.

Features:

- A can initiate the burn unilaterally, without B's consent;
- A incurs a real cost - punishment is not free;
- Daily or per-address limits can be implemented to prevent abuse.

Purpose:

The bilateral burn mechanism serves as an on-chain emotional and reputational enforcement tool. It

creates an environment where cooperation becomes the rational, low-cost strategy.

Examples:

- A pays B for a service that is never delivered. A initiates a 10 BRN burn: both A and B lose 10 BRN;
- Addresses frequently targeted by burns accumulate reputational damage, visible on-chain.

1.2 Proof of Use (PoU) Mechanism

Definition:

To promote genuine utility, BRN rewards wallets that actively engage in transactions or value exchanges. Speculative holding and inactivity are discouraged.

Design:

- Rewards are distributed from a dynamic PoU inflation pool (targeted at 2%-8% annually);
- Distribution is periodic (weekly or monthly), based on activity scores;
- Dashboards can visualize PoU rankings and wallet-level metrics.

Value Proposition:

BRN gains value through usage. Active participation is treated as a contribution to the network economy and is rewarded accordingly.

1.3 T+N Anti-Abuse Mechanism

Definition:

Newly received BRN tokens are subject to a mandatory lock-up period of T days (default T+1), during which they cannot be transferred, burned, or used for PoU rewards.

Benefits:

- Prevents scammers from immediately offloading tokens and avoiding punishment;
- Blocks bots from recycling funds to exploit PoU incentives;
- Increases the traceability and integrity of token movement.

2. BRN Positioning & Mission

2.1 A Decentralized Trust Token

- Facilitates on-chain accountability and penalties without third-party enforcement.

2.2 Anti-Fraud Infrastructure

- Enables users to directly penalize dishonest actors, making fraud publicly visible and economically costly.

2.3 A Utility-Driven Token Economy

- BRN is designed to be spent and circulated - not just held. Use it to earn it.

3. Application Scenarios

- Peer-to-Peer Payments & Social Gifting: Embed trust incentives into everyday transactions.
- DAO Governance with Burn Voting: Reputational stake is required for decision-making.
- Decentralized Reputation Systems: Burn history contributes to trust scores.

4. Governance Design

- All protocol parameters (burn limits, PoU logic, T+N delay) are subject to BRN DAO governance;
- DAO members can propose and vote on changes to inflation rates, penalty logic, and incentive rules;
- BRN will act as the native governance token within this system.

5. Experimental Design Notice

This whitepaper introduces a conceptual economic design. It does not imply immediate implementation or token issuance by the author.

Developers, researchers, and communities are encouraged to explore, adapt, and responsibly implement the BRN model under appropriate legal frameworks.

The following parameters are illustrative and open to further community-led refinement:

- Token Name: Burn Relationship Network
- Token Symbol: BRN
- Suggested Chains: Ethereum / Solana / Base (TBD)
- Initial Supply: 1,000,000 BRN (with dynamic inflation enabled)
- Allocation Plan: Team 10%, PoU Pool 40%, DAO Reserve 20%, Airdrop 30%
- Key Features: Bilateral burn system, PoU-based inflation, DAO governance

6. Acknowledgment & Originality Statement

This whitepaper was authored by Bai Li, who proposes BRN as a crypto-economic framework to reward cooperation, penalize misconduct, and embed emotional expression into tokenized interactions.

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