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Carbonew Hold Partners

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Empowering Sustainable Wealth Creation through Tokenized Carbon Credits and Biodiversity Assets

#### 1 Abstract

Carbonew Hold Partners (https://carbonew.net), as an international investor in Sustencarbon Serviços Ambientais projects, specializes in mobilizing assets that generate carbon credits through net-zero ecosystem projects (https://sustencarbon.eco.br, https://sustencarbon.com). Our actions create economically transactable biodiversity assets, enabling 24/7 global trading in a fluid green economy with high added value, backed by real-world guarantees.

We manage biodiversity assets (commodities) and carbon credits, transformed into futures to meet the sustainable objectives of stakeholders in biodiversity valuation projects. These projects are highly desirable, with multi-stage economic management, essential for cleaning the planets atmosphere, halting global warming threats, and fostering financial sustainability. Our regenerative, high-yield commodities align with significant global capital markets, supported by structured contracts and futures markets.

The result is the compensation of polluting activities worldwide through a socially just, sustainable green economy. By decentralizing our commercial activities via tokenized carbon offsets, agricultural properties, and production through the BCO2e token (https://bco2e.com), we have built a decentralized marketplace (https://carbonew.net) and exchange (https://carbonew.exchange) for trading:

- Projects combining agriculture, livestock, and environmental offsets;
- Greenhouse gas emission offsets through retirement and transfer;
- Our products and services.

BCO2e offers a tokenized solution that combines carbon credits, sustainable forestry projects, and biodiversity product industrialization, providing token holders with real ownership of profits, registered carbon credits, and a decentralized digital wallet. This whitepaper details the infrastructure behind BCO2e, including involved companies, smart contract structures, and transparent, decentralized operations.

#### 2 Introduction to BCO2e

The green investment market is complex, despite global and national regulations. Traditional markets offer futures trading accessible to few. BCO2e simplifies the trading of net-zero biodiversity assets and carbon credits in both conventional and decentralized markets, making ownership and trading accessible to all.

BCO2e enables crypto trading with any currency, with the ability to transfer credits to the real world. Unlike traditional markets, where large-scale investors hold physical materials or trade carbon ETFs, BCO2e offers a diversified, blockchain-backed digital asset. Each token represents a fraction of productive land and 20 metric tons of verified carbon equivalent (tCO2e), custodied by regulated third parties and traded on https://carbonew.exchange.

# 3 A Brief History of Carbon Credits

A carbon credit represents the right to emit one metric ton of carbon dioxide or equivalent greenhouse gas (tCO2e). Biodiversity assets are certified natural products (commodities) tradable in futures markets as net-zero products. Carbon markets aim to mitigate greenhouse gas concentration growth by capping emissions and allocating them via regulated and voluntary markets.

These assets rely on natural bases like land and germplasm banks. BCO2es approach uses market mechanisms to drive low-emission industrial and commercial processes, financing carbon reduction through global trading. Voluntary offsets are aggregated from individual projects, with BCO2e facilitating trading via its decentralized exchange.

#### 4 The Current Carbon Market

Carbon credit legalization has created a global market, assigning monetary value to pollution costs. Businesses, like a factory emitting 100,000 tons of greenhouse gases annually, may face a cap (e.g., 80,000 tons) and must purchase credits to offset excess emissions. BCO2e enables this through verified projects, such as methane recovery or low-emission machinery, ensuring compliance and sustainability.

## 5 Existing Carbon ETFs

Carbon ETFs track captured carbon value and are traded by large players on stock exchanges (e.g., B3, https://www.investing.com, https://carboncredits.com). Unlike BCO2e, these are less accessible to retail investors, requiring brokerage accounts and lacking the diversified, physical asset backing of BCO2e tokens.

# 6 BCO2e Design

#### 6.1 Fundamentals

Each BCO2e token is a digital asset representing fractional ownership of land, agricultural commodities, and verified carbon credits. Custodied by regulated third parties, its value tracks real-time market indices (e.g., B3, https://www.investing.com). Tokens enable emission offsets and are tradable 24/7 on blockchain platforms.

#### 6.2 ESG Classification

BCO2e adheres to CCBA standards (https://www.climate-standards.org/ccb-standards) and UN Sustainable Development Goals (https://brasil.un.org). ESG ratings, assessed via PBGHG protocols (https://sistema-registropublicodeemissoes.fgv.br), assign 13 stars based on sustainability, updated annually and publicly accessible.

# 7 Exchange Platform Momentum-Based Weighting

The tokens value is determined by supply-demand dynamics and a 12-month price performance index, adjusted for risk. Approximately 30% of the value is tied to the projects land and commodities, rebalanced constantly based on market prices. Real-time data reports summarize trading volume, volatility, and prices every 30 minutes.

# 8 Utility Token Stability

BCO2es utility token mitigates market volatility through a Manager Protocol that adjusts token prices within a stability band. Tokens are held in a vault, bought or sold to maintain alignment with market indices, minimizing speculation and ensuring liquidity.

## 9 Market Advantages

BCO2e addresses low liquidity and inadequate risk management in voluntary carbon markets by offering:

- Allocated: Backed by physically captured carbon, instantly transferable.
- Programmable: Smart contracts enable versatile trading and conversion.
- Accessible: Low entry barriers for retail investors.
- Low Fees: Minimal transaction and creation/destruction fees.
- Secure: Assets are segregated, protected from insolvency.
- **Decentralized**: No single entity controls the market.
- Diversified: Mitigates risk through varied biodiversity assets.

# 10 Using the BCO2e Token

Token holders can trade BCO2e on https://carbonew.exchange, convert to fiat or cryptocurrencies, and track market movements via the backoffice (https://backoffice.carbonew.exchange). The tokens serial numbers and physical characteristics are accessible, ensuring transparency.

# 11 Technology

BCO2e operates on the Solana blockchain, using fungible (ERC-20) and NFT (ERC-721/1155) tokens. Smart contracts ensure secure issuance, trading, and retirement of credits. The platform integrates oracles for external data and operates a DAO for community governance.

#### 12 Tokenomics

- Total Supply: 50 million tokens.
- **Distribution**: Marketplace (40%), Staking (15%), Team (4%), Marketing (6%), Strategic Reserve (35%).
- Emission Control: Limited to 2 million hectares.
- Funding Phases: \$10M (Seed), \$15M (Series A), \$20M (ICO/IDO), \$10M (Strategic).

# 13 Partnerships and Oversight

BCO2e partners with regulated custodians and market institutions, ensuring compliance and transparency. Governance is managed via an on-chain DAO, with voting proportional to token ownership. Independent audits by top-tier firms verify token alignment with physical carbon credits monthly.

### 14 Conclusion

BCO2e redefines sustainable investing by tokenizing carbon credits and biodiversity assets, offering a transparent, profitable, and accessible solution for retail and institutional investors. Join us at https://bco2e.com to participate in the green economy.