







# **ECB Token Whitepaper**

A Decentralized CO<sub>2</sub> & Methane Market Powering Nature Revitalization



### **Abstract**

ECB Token (ECOBAL) is a meme utility token on the Solana blockchain with a mission to decentralize carbon and methane finance while directly funding global forest conservation. With a fixed supply of 4.06 billion tokens—symbolic of the world's forest hectares—ECB Dynamics leverages an open-market ecosystem that issues verifiable CO<sub>2</sub> (CO<sub>2</sub>T) and methane (METH) credits. A dual-token architecture ensures MiCA compliance and channels liquidity into a non-profit that stewards real-world nature revitalization. Participants stake ECB to earn environmental credits, uniting blockchain freedom with tangible ecological impact.

#### 1. Introduction

#### Decentralizing Carbon Finance

Traditional carbon markets are fragmented by red tape, limiting participation and transparency. ECB Dynamics removes barriers by creating a fully decentralized, permissionless system for CO<sub>2</sub> and CH<sub>4</sub> ownership.

#### Meme-Driven Mission

Leveraging the viral energy of meme culture, ECB Token galvanizes a global community to fund and celebrate real-world forest stewardship through a transparent, market-driven approach.

# 2. Why Decentralize CO2?

- → Open-Market Access:
  - ◆ Anyone can stake, trade, or hold without centralized approvals.
- → Transparent Valuation:
  - ◆ Token prices driven by supply and demand, not bureaucratic quotas.
- → Incentivized Stewardship:
  - Stake to earn credits tied directly to measured sequestration, aligning financial reward with environmental impact.

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### 3. Dual-Token Architecture

Token	Role	Supply & Primary Asset	Metric
ECB	Public Meme Token	4,060,000,000 – forest hectare units	1ECB = 1 hectare primary asset
LECB	Private Impact Ledger	Unlimited; represents stewarded land	1 LECB = 1 hectare stewarded land
CO <sub>2</sub> T	Carbon Credit	Minted = $\Sigma$ (verified CO <sub>2</sub> capture)	1CO <sub>2</sub> T = 1kg CO <sub>2</sub>
METH	Methane Credit	Minted = $\Sigma$ (verified CH <sub>4</sub> digestion)	1 METH = 1 L CH <sub>4</sub>

A non-profit holds LECB ledger and liquidity pool for nature revitalization funding.

#### 4. Tokenomics & Distribution

- → ECB Token:
  - ◆ Total supply 4.06 billion; 20% reserved for conservation fund; 80% released via public sale and incentives.
- → Liquidity Pool:
  - ◆ Entire ECB-USD(S) LP transferred to independent non-profit.
- → Credit Tokens:
  - ◆ CO<sub>2</sub>T and METH minted exclusively via staking; non-taxable, freely transferable.

### 5. Staking Mechanism & Reward Flow

- 1. Stake: Lock ECB in the smart contract.
- 2. Verify: On-chain oracles ingest certified sequestration data (Ecobal and partners).
- 3. Mint: CO<sub>2</sub>T and METH minted proportional to CO<sub>2</sub>T and CH<sub>4</sub> metrics.
- 4. Distribute: Daily rewards to stakers relative to stake share.
- 5. Utilize: Trade on open market or burn in ECB Dynamics widgets for verified offset claims.

### 6. Technical Architecture

- Blockchain: Solana for high throughput and low fees.
- Smart Contracts: Audited programs for staking, minting, and governance.
- Data Oracles: Integrate Poznan University, Sentinel-2 remote sensing, and third-party audits.
- Security: Bug bounty program and multi-sig treasury.

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### 7. Governance

- Token-Weighted Voting: Proposals for protocol upgrades, land onboarding, reserve allocation.
- Community Grants: Fund nature revitalization, biodiversity, and agroforestry initiatives via governance treasury.

## 8. Use Cases & Impact

- Individuals: Earn and trade CO<sub>2</sub>T/METH while supporting nature revitalization.
- Corporates: Integrate credits into ESG reporting, showcase transparent climate action.
- NGOs & Govts: Leverage decentralized data for policy insights and project monitoring.

### **Key Benefits**

- Alternative to ETS: Market-driven, minimal bureaucracy.
- Verified Offset: On-chain audit trail prevents greenwashing.
- Usufruct Model: Engage landowners without land transfer.

# 9. Roadmap

Phase	Milestone	
Q3 2025	Launch staking wallet; transfer LP to non-profit; initial CO <sub>2</sub> T/METH minting	
Q4 2025	Deploy data oracles; launch beta marketplace for CO <sub>2</sub> T & METH	
Q1 2026	Governance module live; first community grants awarded	
Q2 2026	Onboard global land partners; publish LECB ledger; cross-chain expansion	

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# 10. Appendices

### A. CO<sub>2</sub> Certification Details

• Source: Poznan University of Life Sciences

• Rate:  $\sim 10,200 \text{ kg CO}_2/\text{ha·yr}$ ; 143 ha  $\rightarrow 1,458,600 \text{ CO}_2\text{T/yr}$ .

## B. Methane Capture Data

• Source: European Forest Microbial Studies

• Rate:  $\sim$ 6 kg CH<sub>4</sub>/ha·yr (8.2–16.6 g/tree·yr; 500 trees/ha)  $\rightarrow$  1,196,910 METH/yr.

## C. Global Forest Coverage

Continent	Forest Area (m²)	Equivalent ECB Tokens (1 tkn = 10,000 m²)
Europe	1,015 trillion	~101.5 million
Asia	1,530 trillion	~153 million
Africa	1,000 trillion	~100 million
N. America	750 billion	~75 million
S. America	842 billion	~84.2 million
Oceania	200 billion	~20 million

### D. Glossary

• ECB Token: Meme utility token for funding conservation.

• LECB Token: Ledger of stewarded land; private.

• **CO**<sub>2</sub>**T Token**: 1 kg CO<sub>2</sub> credit.

• **METH Token:** 1 L CH<sub>4</sub> credit.

Usufruct Rights: Tokenization via land usage agreements.

• Burn Mechanism: Retire credits for verified offset.

For on-chain audits and further details, visit:

https://solscan.io/token/ecb2AKX2L3cmcVb4QW8FGHEfHNDKCu6MfNNU8dFKBag

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