

# AgroReGenerations Carbon Offset Position Paper V1.0

July 2025

## Purpose and Context

This Position Paper V1.0 responds to an open call for innovative carbon removal solutions, aligning AgroReGenerations' holistic, open-source, and SDG-driven carbon offset model with growing market demand for verifiable, anti-greenwashing climate action. It complements our three-page Carbon Offset Model presentation currently available on our website.

## Who We Are

AgroReGenerations is a regenerative systems initiative empowering smallholder farmers and their communities through SDG-aligned regenerative pilots. We combine open-source tools, verifiable data systems, and generational education to build transparent, impact-focused carbon offset pools across diverse biomes.

## Our Holistic Approach

We reject narrow agroecology or tree-planting-only offset strategies, while respecting efforts that contribute to net zero goals. Our model emphasizes resilience, equity, and SDG-aligned outcomes, including biodiversity, soil health, food security, youth and gender inclusion, and education, ensuring long-term regenerative and climate-positive outcomes.

## Immediate Actions

We are prioritizing rapid, scalable actions across our current biomes: Kenya (dual-biome anchor projects), NTB Indonesia (blue carbon and volcanic soils), and Southern Europe. These efforts include biochar deployment as an immediate-impact strategy, validated soil audits, and pilot pools prepared for coding and public audit. Funding accelerates this timeline significantly.

## Medium- to Long-Term Goals

Our medium-term plan focuses on codifying a full smart contract architecture, integrating regional pools via a public dashboard (for buyers, validators, and stakeholders) while maintaining a private operational dashboard (AgroConnect) for farmers and verified contributors. Our long-term vision includes developing permanent carbon sink projects, such as rehabilitated quarry sites in Italy (Abruzzo) for geo-resilient conservation, education, and irreversible sequestration zones, while ensuring ancestral land rights and stewardship remain central.

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## Governance and Transparency

While we avoid traditional DAOs due to security and manipulation concerns, our governance is fully transparent and auditable. Regional pools will operate through whitelisted advisory voting mechanisms, public audit via our platform, and ongoing.

## Future Vision

Beyond biochar and blue carbon, our future scaling includes enhanced agroecology and multi-pool global expansion across the Americas, Nordic and Arctic innovation pilots, and greater Europe and SEAP. All systems remain open source, equity-driven, and publicly auditable.

## Credits

**Authored by:** Epidaurus / AgroReGenerations Core Team  
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#### Team Peer Reviewers:

AgroRegenerations Founding Team

(special recognition to Michael Jones and Tahrira Sultana)

*Note: Additional validation discussions underway with other third-party partners.*

# AgroRegenerations Carbon Offset Model

## Measurable Climate + Social Impact | Anti-Greenwashing | Equity-Driven | Planetary Resilience

AgroRegenerations Carbon Offsets are not a license to pollute. They create measurable, evolving, and multi-dimensional climate and social impact, recognizing that true climate action is not just about CO<sub>2</sub> math but also about biodiversity, agroecology, smallholder livelihoods, and community resilience.

### Key design principles:

- Hard-coded anti-greenwashing (~76% token burns)
- Integrated ecological + financial incentives for farmers (~16% pool)
- Publicly auditable, open-source architecture, with non-transferable NFT badges for buyers
- Eight coded impact pools (can expand as needed) linked to real-world projects, designed to expand and deepen over time in alignment with partner networks and on-ground realities:

Kenya Dual Biome Biome (Mount Kenya + Lake Victoria)

Lombok, Indonesia (Tropical Forest Regeneration)

Italy + Spain (Mediterranean Agriculture)

Amazon (future, under review)

Bangladesh (Mangrove Restoration)

Nordic/Europe (future, under review)

North America (future, under review)

Pilot Innovation Pool (future, under review)

### Mission Commitments:

- Internal MRV (measurement, reporting, verification) tools – we are the core validator – using soil testing, field data, and digital dashboards
- AI/ML agents, satellite or remote sensing (where applicable), third-party soil test reports, and partner data to reinforce and refine impact measurement
- Continuous refinement of metrics with evolving best practices and third-party audits
- Impact reported not only in approximate CO<sub>2</sub> equivalence but also across biodiversity gains, community resilience, regenerative land management, and SDG-aligned benefits

# Systematic Mechanics and Flow



## How It Works:

1. Buyer purchases offset + selects pool
2. Tokens locked for exactly one year (12 months + 6 hours)
3. Upon unlock:
  - a. **~76%** permanently burned
  - b. **~16%** to verified farmers (via AgroConnect):  
*Farmers can optionally lock ~10–20% of rewards into a special stability staking pool that doubles by the next season*
  - c. **~80%** stablecoins + ~20% EPiD tokens
- d. **~8%** to validator + tools fund (covers both internal MRV and third-party audits)

## NFT Badge:

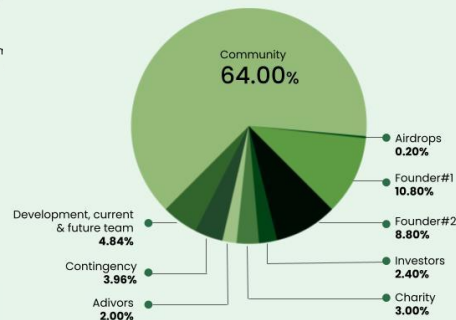
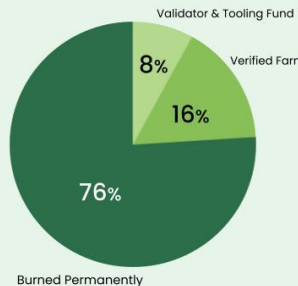
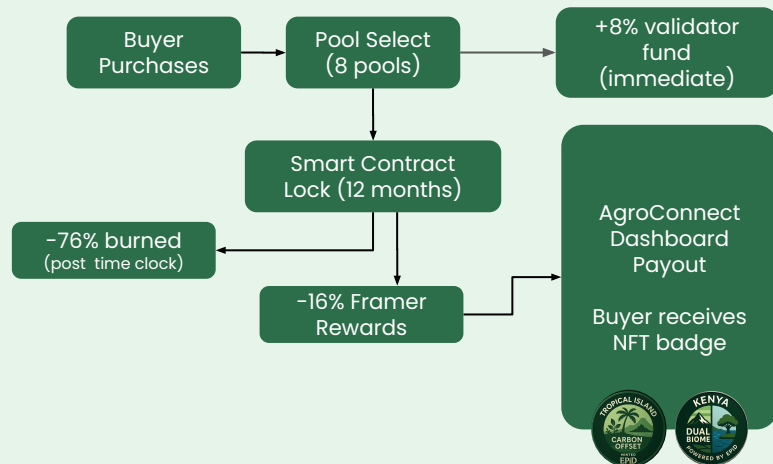
Each buyer receives a non-transferable, symbolic NFT badge showing their chosen region and impact type — not resellable, purely for participation validation.

## Matching Pool:

- ❖ Up to 2% of total token supply over four years
  - 20% from operations, 80% from founder wallets
- ❖ After cap is reached, replenishment: one-third revenue, one-third operations, one-third founders, reviewed annually
- ❖ Buyers' experience remains consistent; matching operates internally

## Liquidity + Pools Layer

- ❖ Separate liquidity pool (LP) underpins price stability
- ❖ Eight coded impact pools: backend mechanics fixed, descriptions flexible to match partner scaling
- ❖ AgroConnect acts as the delivery and reporting interface — not a speculative or custodial marketplace.



# Technical Architectural & Governance

## Coded Components (Automated Flows)

- Smart contract lock + timed release  
Fixed percentage allocations (burn, farmer, validator)
- Matching pool triggers + cap counters  
NFT badge issuance
- Internal dashboard integrations (AgroConnect, EPiDAgro)
- Optional farmer staking pool (future stability pool)

## Manual Components (Governance)

- Regional pool expansions and evolving descriptions
- Validator and audit partner selection
- Liquidity + matching management
- Transparent, off-chain governance (non-DAO, fully open-source and traceable)

## Summary Statement

The AgroRegenerations system is built to:

