

# GREEN STACK

## STK

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*Stack it up.*

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A Proof of Space and Time Blockchain  
that pays developers to build on it.

### **Technical Whitepaper**

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[greenstack.network](https://greenstack.network)

## Abstract

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Green Stack (STK) is a Proof of Space and Time blockchain forked from Chia Network v2.7. It is designed around a single core thesis: a blockchain that attracts and compensates developers to build on it will grow faster, more sustainably, and more honestly than one that promises to build everything itself.

Green Stack makes three specific commitments that no existing Chia fork has made simultaneously: timelord operators are paid automatically at the consensus level, developers are paid from a documented premine for demonstrated on-chain results, and the chain is fully farmable and tradeable in the United States under the March 2026 SEC/CFTC digital commodity framework.

Existing Chia plots work on Green Stack with zero modification. Farmers dual-farm both chains with no additional hardware, no replotting, and no additional cost. Every STK earned is pure profit on top of an existing Chia operation.

This whitepaper describes Green Stack's design philosophy, token economics, developer rewards program, farmer commitments, and legal standing. It is written for Chia farmers, blockchain developers, and anyone evaluating Green Stack as a platform to build on or farm.

# 1. An Acknowledgment

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Green Stack would not exist without Chia Network. We say this plainly and we mean it.

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Bram Cohen and the Chia Network team built something genuinely novel — a production-hardened Proof of Space and Time blockchain with a sophisticated smart coin language, years of protocol refinement, and infrastructure that took a world-class engineering team years to create. The cryptographic foundations, the consensus mechanism, the Chialisp programming language, the pooling protocol, the full suite of on-chain primitives — none of this came from us. We inherited it, and we are grateful for it.

Green Stack is not a criticism of Chia. It is a fork — a different set of choices built on the same remarkable foundation. The founder of Green Stack is not a blockchain architect. He is a farmer and operator who ran Little Lambo Coin, a Chia fork, for over four years. The lessons learned during that time — watching Chia's community, living through its economic decisions, understanding what farmers actually experience — informed every design choice in Green Stack.

Where Chia chose the corporate path, Green Stack chooses the community path. Where Chia built for enterprise adoption and institutional investment, Green Stack builds for farmers and independent developers. The differences between the two chains are philosophical and economic, not technical. The technology beneath both is the same — and it is excellent.

We owe Chia Network a debt we openly acknowledge. This whitepaper exists to explain what we are doing differently, and why — not to diminish what they built.

## 2. The Problem Green Stack Solves

Most new blockchains follow one of two paths. They either promise to build a complete ecosystem themselves — and rarely deliver — or they launch with a token and hope developers show up on their own. Neither approach works reliably.

Chia took a third path: build excellent infrastructure and wait for enterprise adoption. Four years later, the infrastructure is excellent. The enterprise adoption has been slow. And in the meantime, the farmers who secured the network experienced declining rewards, a prefarm that overshadowed the market, and a coin they could not easily trade in the United States.

The Chia farming community is large, technically sophisticated, and frustrated. They have existing plots. They have existing hardware. They are already running full nodes. They want a chain that treats them as the primary stakeholder — not a secondary consideration behind corporate IPO ambitions.

### What Specifically Went Wrong

| Issue                          | Chia Experience  | Green Stack Approach   |
|--------------------------------|--|--|
| <b>51% prefarm</b>             | Created constant fear of founder dumps. Community trust never fully recovered.   | 26.9% premine. Farmers own 73.1% of total supply. Full transparency from block zero.           |
| <b>9,216 XCH/day at launch</b> | Relentless sell pressure before any ecosystem existed. Price declined for years. | 2,304 STK/day — 75% less. Lower reward is sustainable because farmers have zero hardware cost. |
| <b>Timelords unpaid</b>        | Critical network infrastructure ran on altruism. Few wanted to run one.          | 0.1% per-block reward paid automatically to winning timelord. Consensus enforced.              |
| <b>Silent prefarm sales</b>    | 404,016 XCH sold in 3 months with no schedule or explanation.                    | All premine sales announced publicly in advance. Monthly spending log published.               |
| <b>Double halving 2024</b>     | Reward halving + plot filter reduction within 3 months. Farmer exodus followed.  | One halving mechanism only. Every 3 years. No plot filter surprises.                           |
| <b>Not tradeable in USA</b>    | IPO strategy trapped XCH in SEC review limbo. US farmers cannot easily sell.     | STK is a digital commodity under March 2026 SEC/CFTC framework. Tradeable in USA day one.      |

## 3. The Green Stack Solution

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### 3.1 The Platform Model

Green Stack's thesis is simple: a blockchain that pays developers for results will attract better developers, more applications, and more farmers than a blockchain that promises to build everything itself.

We do not promise to build a DEX, an NFT marketplace, a gaming platform, or a mobile wallet. We promise to build and maintain the best possible foundation — and to pay developers from a documented premine to build everything else. This is the platform model. Ethereum did not build Uniswap. It built the foundation that made Uniswap possible. Green Stack applies the same principle at a scale appropriate for a new independent chain.

### 3.2 Zero-Cost Dual Farming

Green Stack uses the same Proof of Space format as Chia. Any existing Chia plot — including all compressed plot formats — works on Green Stack without modification. Farmers point their existing harvester at both chains and earn rewards from both simultaneously.

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**No new hardware. No replotting. No additional cost. Every STK earned is pure profit.**

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This single fact changes the economics of joining Green Stack completely. Chia farmers needed high block rewards to recoup hardware costs. Green Stack farmers have no hardware costs to recoup. Even a modest STK price at a low block reward is genuinely free money on top of what they already earn from Chia.

### 3.3 Timelord Rewards

On Chia mainnet, timelord operators run their hardware purely out of community spirit. They receive no compensation. Predictably, few want to run timelords, and those who do have little economic incentive to invest in faster hardware.

On Green Stack, every block automatically creates a coin worth 0.1% of the block reward and sends it to the winning timelord's wallet address. This is enforced at the consensus level — not a side program or a soft incentive. It creates genuine competition for fastest timelord, which benefits network speed and security for every farmer. This mechanism was invented for Little Lambo Coin in 2022 and has run continuously for over four years.

### 3.4 Honest Economics

Green Stack's premine is 26.9% of total eventual supply. Chia's prefarm was 51%. Those numbers tell a story without any additional commentary: on Green Stack, farmers own the majority of everything that will ever exist, from block one.

Every premine allocation is justified by real, quantified costs — documented in full and visible on the block explorer from block zero. The founder earns a perpetual 5% per-block reward encoded in consensus — transparent, immutable, and running forever. There are no hidden income streams. There are no surprise mechanisms. The source code is the truth.

## 4. Token Economics

### 4.1 Emission Schedule

Green Stack begins with a block reward of 0.5 STK — 75% less than Chia's launch reward. This is not arbitrary. It reflects the fundamental difference in farmer economics: Chia farmers needed high rewards to recoup hardware costs. Green Stack farmers have no hardware costs. Lower inflation means less sell pressure, better price support, and a more sustainable long-term emission curve.

| Period       | Years           | Reward/Block | STK Farmed        | Cumulative        |
|--------------|-----------------|--------------|-------------------|-------------------|
| Phase 1      | Years 1–3       | 0.5000 STK   | 2,522,880         | 2,522,880         |
| Phase 2      | Years 4–6       | 0.2500 STK   | 1,261,440         | 3,784,320         |
| Phase 3      | Years 7–9       | 0.1250 STK   | 630,720           | 4,415,040         |
| Phase 4      | Years 10–12     | 0.0625 STK   | 315,360           | 4,730,400         |
| Phase 5      | Years 13–15     | 0.0313 STK   | 157,680           | 4,888,080         |
| Phase 6+     | Years 16–18     | 0.0156 STK   | 78,840            | 4,966,920         |
| <b>TOTAL</b> | <b>21 years</b> | —            | <b>~4,966,920</b> | <b>~4,966,920</b> |

After Phase 6, a tail emission continues indefinitely at approximately 36 STK/day. The chain never has a zero-reward state — farmers are always incentivized to secure the network.

### 4.2 Comparison: STK vs Chia vs Bitcoin

| Metric                   | Green Stack    | Chia                | Bitcoin       |
|--------------------------|----------------|---------------------|---------------|
| Starting block reward    | 0.5 STK        | 2.0 XCH             | 50 BTC        |
| Daily emission at launch | 2,304 STK      | 9,216 XCH           | 7,200 BTC     |
| Halving schedule         | Every 3 years  | Every 3 years       | Every 4 years |
| Halving mechanisms       | 1              | 2 (reward + filter) | 1             |
| Premine / founder share  | 26.9%          | 51%                 | 0%            |
| Farmer share of supply   | 73.1%          | 49%                 | 100%          |
| Timelord incentive       | Paid per block | None                | N/A           |
| US exchange trading      | Yes — day one  | No — IPO limbo      | Yes           |

### 4.3 Premine Structure

A genesis premine of 1,800,000 STK is created at block zero and sent automatically to the founder's wallet — the same mechanism used by all Chia forks. The wallet address is published publicly at launch. Every allocation below represents a real, quantified cost:

| Allocation             | Amount               | Share       | Purpose                                       |
|------------------------|----------------------|-------------|---|
| Developer Grants Pool  | 700,000 STK          | 38.9%       | 5yr developer grant program                   |
| Founder Operating Fund | 500,000 STK          | 27.8%       | Operations, legal, servers, infrastructure    |
| Exchange Listings Fund | 200,000 STK          | 11.1%       | Phased exchange listing fees                  |
| Marketing & Community  | 150,000 STK          | 8.3%        | Genesis prize, airdrops, bounties, bug bounty |
| Emergency Reserve      | 150,000 STK          | 8.3%        | Legal surprises, audits, unknown costs        |
| Exchange & Liquidity   | 100,000 STK          | 5.6%        | Day-1 DEX trading pairs                       |
| <b>TOTAL</b>           | <b>1,800,000 STK</b> | <b>100%</b> | 26.9% of total supply — vs Chia's 51%         |

## 4.4 Genesis Block Prize

The first farmable block carries a special reward of 10,000 STK — funded from the Marketing allocation. Any farmer pointing their existing Chia plots at Green Stack on launch day has a real chance to win it. No new hardware required. The prize is announced 2–4 weeks before launch. No other Chia fork has done this.

## 4.5 Block Reward Breakdown

| Recipient     | Per Block         | Share       | Notes   |
|---------------|-------------------|-------------|---|
| Farmer / Pool | 0.4745 STK        | 94.9%       | Base farming reward                             |
| Founder       | 0.0250 STK        | 5.0%        | Perpetual — encoded in consensus, runs forever  |
| Timelord      | 0.0005 STK        | 0.1%        | Automatic — paid to winning timelord each block |
| <b>TOTAL</b>  | <b>0.5000 STK</b> | <b>100%</b> | Full block reward at launch                     |

## 5. Developer Rewards Program

700,000 STK from the genesis premine funds the Developer Grants Pool. This is the engine of the platform model. It is designed to sustain approximately five years of moderate ecosystem growth, with sufficient buffer to extend well beyond that if the fork grows slowly.

Unlike traditional crypto grant programs that pay developers upfront for promises, Green Stack pays for demonstrated on-chain results. The blockchain is the source of truth — all activity is verifiable, all payments are visible.

### 5.1 Grant Tiers

| Tier   | Grant      | Examples   | Payment Structure  |
|--------|------------|--|--|
| Tier 1 | 5,000 STK  | Block explorer, wallet plugin, price tracker, farming tools, documentation, tutorials        | Released on verified delivery                              |
| Tier 2 | 15,000 STK | Full wallet app, DEX integration, farming dashboard, mobile app, API services, pool software | 50% at milestone, 50% at launch + 30 days activity         |
| Tier 3 | 40,000 STK | Exchange integration, cross-chain bridge, DeFi protocol, major marketplace                   | 25% at start, 25% at milestone, 50% dripped over 12 months |

### 5.2 How Applications Work

- Submit a proposal via GitHub or the developer portal describing scope and expected on-chain impact
- Founder reviews and approves — based on quality, feasibility, and value to the STK ecosystem
- Approved grant locks STK into a time-vested on-chain coin assigned to the developer's wallet
- On-chain activity is monitored continuously — the blockchain is the only source of truth
- No activity for 90 days triggers automatic clawback — unspent STK returns to the pool

### 5.3 Why Performance-Based Pay Works

Serious developers welcome it. Only those who intend to disappear after receiving a grant will object to performance-based vesting. The clawback mechanism means the pool is never permanently depleted by an abandoned project. And because STK value grows with the ecosystem, a developer who builds something genuinely useful earns more as the chain succeeds — their interests are perfectly aligned with the chain's.

## 6. Commitments to Farmers

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The Farmer Compact — specific, written, verifiable commitments published at launch.

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The Chia farming community has seen broken promises, surprise protocol changes, and silent prefarm sales. Green Stack makes the opposite choice: specific, written commitments to farmers, published on the website at launch and maintained permanently.

### The Farmer Compact

- ✓ No surprise halvings or protocol changes — 90 days minimum public notice before any consensus change
- ✓ All premine sales announced publicly in advance — no silent dumps, ever
- ✓ Monthly premine spending log published in plain English — every transaction explained
- ✓ Founder wallet address and personal plot size disclosed at launch — verifiable by anyone on the explorer
- ✓ No promises we cannot keep — if we say we will build it, we build it
- ✓ Rewards display correctly from block one — the v2.7 wallet issues are resolved
- ✓ Public changelog for every protocol change — no undocumented modifications

These are not aspirational statements. They are specific commitments that farmers can verify, reference, and hold the founder accountable to. Every one of them is a direct response to a documented Chia community grievance.

### Farmer Experience Features

- Farming calculator on the website — enter your plot size, get estimated daily and monthly STK at current netSPACE
- Timelord leaderboard on the block explorer — who is winning the most timelord rewards, updated in real time
- Discord community bot — announces the genesis prize winner, milestone blocks, and timelord reward events
- Genesis coinbase message — an embedded permanent artifact in block zero: "Green Stack — May 2026 — Built by farmers, for farmers"
- Bug bounty program — STK rewards for responsible disclosure of security vulnerabilities
- Early farmer airdrop — 90-day snapshot rewards farmers who joined in the first three months

## 7. Legal Standing in the United States

Green Stack is farmable and tradeable in the United States from day one. This section explains why — and why Chia is not.

### 7.1 The Regulatory Environment

On January 23, 2025, the Trump administration signed an executive order explicitly declaring that US policy is to support the growth of digital assets and blockchain technology. The prior enforcement-heavy approach was reversed. Approximately 89 crypto enforcement cases were dropped or frozen.

On March 17, 2026, the SEC and CFTC jointly issued a formal framework establishing a five-category token taxonomy. Digital commodities — crypto assets deriving their value from the operation of a functional blockchain — were explicitly classified as non-securities. Protocol farming activities were confirmed as generally not constituting securities transactions.

### 7.2 Where STK Fits

| Test                           | Green Stack Answer  |
|--------------------------------|---|
| Tokens sold for USD?           | No. STK is earned by farming only. No ICO, no presale, no token sale.   |
| Investment contract?           | No. Farmers provide storage space in exchange for protocol rewards — identical in character to Bitcoin mining.          |
| Profit from founder's efforts? | No. STK value is determined by the market and the ecosystem, not by managerial decisions of the founder.                |
| Functional blockchain?         | Yes. The chain operates independently from day one. STK is intrinsically linked to its operation.                       |
| Verdict                        | <b>STK qualifies as a digital commodity under the March 2026 SEC/CFTC framework. Farmable and tradeable in the USA.</b> |

### 7.3 Why Chia Cannot Trade in the USA — And Why STK Can

Chia Network Inc. pursued a corporate IPO by filing an S-1 registration statement with the SEC. This decision — while legally understandable for a venture-backed company — created a structural trap: XCH cannot trade freely on US exchanges while the company's equity is under SEC review, because XCH could be classified as an unregistered security tied to that equity offering.

Green Stack has none of these structural characteristics. There is no corporation. There is no IPO. There is no S-1. There are no venture capital investors. There are no shareholders whose equity interests are tied to STK. The chain is open-source infrastructure built by an independent founder who earns STK by farming — exactly the same way every other participant does.

**US Chia farmers have been growing a coin they cannot easily sell domestically for years. On Green Stack, you farm it and sell it — right here in the USA.**

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This is not a legal opinion. Consultation with a crypto-friendly attorney has been completed prior to launch. Nothing in this whitepaper constitutes financial or legal advice.

## 8. Technical Foundation

### 8.1 Fork Base

Green Stack forks from chia-blockchain v2.7 — the current mainline Chia release. Starting from v2.7 provides:

- All Chia hard forks activated from genesis — no legacy compatibility burden
- Latest security patches and three-plus years of production hardening
- Full v2 plot format support including all compressed plot formats
- Modern Rust-based `chia_rs` library for consensus constants
- Complete primitive suite: CATs, NFTs, Offers, Clawback, DIDs, DataLayer, State Channels, Chialisp

### 8.2 Chain Parameters

| Parameter                | Value   |
|--------------------------|---|
| Chain Name               | Green Stack   |
| Ticker                   | STK   |
| Address Prefix (Mainnet) | stk   |
| Address Prefix (Testnet) | tstk  |
| Block Time               | ~18.75 seconds  |
| Full Node Port           | 6800  |
| Consensus                | Proof of Space and Time (PoST)                        |
| Smart Coin Language      | Chialisp  |
| Plot Compatibility       | All Chia v1 and v2 plots including compressed formats |
| Genesis Message          | Embedded permanently in block zero coinbase data      |

### 8.3 Built-in Developer Primitives

Every developer building on Green Stack has access to the full Chia primitive suite from day one — at no additional cost:

- CATs — launch any fungible token with custom issuance rules
- NFTs — mint, transfer, and trade with permanent on-chain royalties
- Offers — peer-to-peer atomic swaps of any assets, zero counterparty risk, no exchange needed
- Clawback — programmable coin recall within a configurable time window
- DIDs — decentralized identity built into every wallet
- DataLayer — decentralized data store with fraud-proof integrity proofs
- Chialisp — Turing-complete smart coin language for custom on-chain logic
- State Channels — off-chain computation framework for games and high-frequency applications



## 9. Track Record

Green Stack is built by the founder of Little Lambo Coin (LLC), a Chia fork launched in 2022. LLC was not a theoretical project. Last checked in early 2026 it was still producing blocks — quietly, with no active development, no founder involvement, and no marketing. Just a chain that kept running.

| LLC Metric                   | Status   |
|------------------------------|--|
| Current block height         | Over 4.3 million blocks at last check — early 2026                 |
| Peak netSPACE                | 25+ PiB at peak  |
| Founder involvement required | None — ran independently for years with no intervention            |
| Timelord reward mechanism    | Operational for 4+ years — the same mechanism Green Stack inherits |
| Chain status                 | Fully operational  |

LLC proved three things that matter for Green Stack: the timelord reward mechanism works at scale, a Chia fork can sustain itself without constant founder attention, and the founder knows what it takes to get a chain off the ground and keep it running. Green Stack is not a first attempt. It is an informed second generation built on four years of hard-won lessons.

## 10. Summary

| Question                       | Answer  |
|--------------------------------|---|
| What is Green Stack?           | A Proof of Space and Time blockchain platform — we build the foundation, developers build the ecosystem |
| Who can farm it?               | Anyone with existing Chia plots — zero new hardware, dual farm for pure profit                          |
| What is the block reward?      | 0.5 STK at launch — 75% less inflation than Chia. Halves every 3 years.                                 |
| What is the total supply?      | ~6.77M STK over 21 years. Premine is 26.9% — vs Chia's 51%. Farmers own 73.1%.                          |
| What is the genesis prize?     | 10,000 STK for whoever farms block one — any size farm can win  |
| How do timelords earn?         | 0.1% per block, automatically, consensus enforced — fastest wins  |
| How do developers earn?        | Tiered grants (5K / 15K / 40K STK) — results only, milestone-vested, clawback protected                 |
| Can US farmers trade it?       | Yes — STK is a digital commodity under the March 2026 SEC/CFTC framework                                |
| Why not just farm Chia?        | You can do both simultaneously. STK is free money on top of what you already farm.                      |
| Who built it?                  | Founder of Little Lambo Coin — running for 4+ years, 25+ PiB at peak netspace                           |
| What does Green Stack promise? | <b>We build the chain. You build on it. We pay you for results. Everyone wins.</b>                      |

### Green Stack | STK | greenstack.network

We build the chain. You build on it. We pay you for results. Everyone wins.  
 May 2026