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ADVANCED RECYCLING METHODS

STOCOIN

White Paper



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TABLE OF CONTENTS

03	1. Executive Summary
04	2. Market Opportunity
05	3. Technology Overview
06	4. Business Model
07	4.1 Business Model
08	5. Financial Highlights
09	5.1 OPEX
10	5.2 Unit economics
11	6. Tokenomics & Fund Allocation
13	7. Roadmap
14	8. Team & Partners
15	9. Legal Structure & Disclaimers
16	10. Conclusion & Call to Action



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1. Executive Summary

STOCOIN is pioneering a new frontier where clean technology meets decentralized finance – creating a blockchain-powered GreenTech utility token.

At the core of our mission lies a groundbreaking industrial application: transforming textile waste into high-value resources through blockchain-integrated pyrolysis plants.

Every year, over 92 million tons of textile waste are generated, with less than 4% being recycled. STOCOIN's solution is a global network of modular, energy-efficient reactors that convert this waste into pyrolysis oil, refined carbon black, and CO₂ credits – with every output transparently tracked, tokenized, and distributed through the STOCOIN ecosystem.

But STOCOIN is more than waste conversion – it's a platform for clean industrial growth. By staking tokens, participating in governance, and engaging with infrastructure-linked services, participants gain access to protocol-based rewards tied to ecosystem activity and transparent exposure to real-world asset production. The project is supported by Stocon Group and strategic partners, with active operations in multiple regions and a roadmap toward large-scale deployment across Europe, Asia, and beyond. Initial expansion is focused on South Asia, with active development discussions in India for one of the first large-scale STOCOIN-enabled recycling facilities.

Our next milestone is the public token sale via PinkSale DEX in Q3 2025. With its combination of industrial revenue potential, blockchain transparency, and measurable ESG impact, STOCOIN introduces a new category of utility token – connecting decentralized finance with clean infrastructure.

Why Now?

- The combined voluntary and compliance carbon credit markets are projected to surpass \$3 trillion by 2030 (Grand View Research, BusinessWire).
- Textile waste is exploding, with 92 million tons produced annually and less than 4% recycled (Ellen MacArthur Foundation).
- STOCOIN is positioned at the intersection of these megatrends, converting waste into high-value outputs – pyrolysis oil, carbon black, carbon mesh, and tokenized CO₂ credits – creating a blockchain-backed cleantech utility ecosystem.

This is not just another cryptocurrency – it is a real-world asset token with tangible industrial underpinnings, designed to scale alongside one of the most urgent global sustainability challenges.



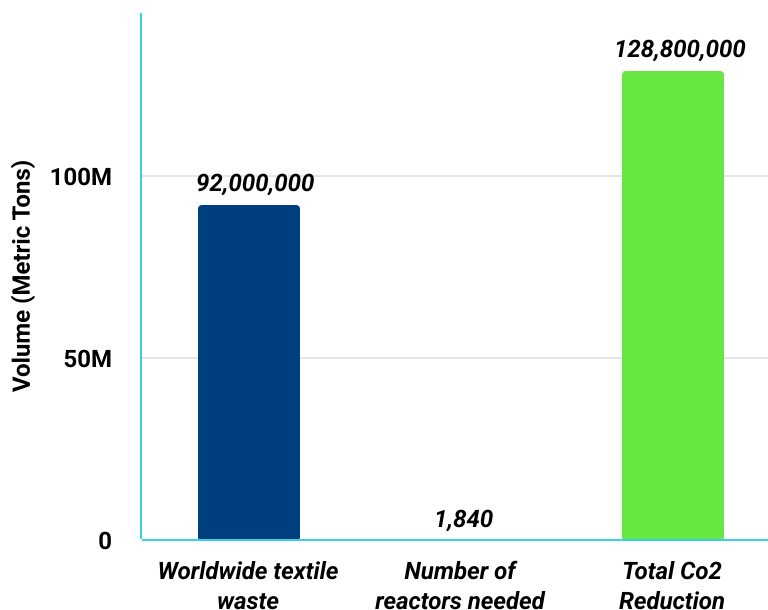
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| 2. Market Opportunity

The global textile industry generates over 92 million tons of waste every year. Despite growing regulatory pressure and ESG mandates, less than 4% is recycled.

The remainder is incinerated or exported – fueling pollution, driving social backlash, and raising compliance costs for global fashion brands.

At the same time, infrastructure stakeholders – from governments to construction firms – are under pressure to decarbonize supply chains. Demand for low-emission alternatives to steel is surging, as sustainable construction materials become a policy and procurement priority worldwide.



This convergence creates a unique market opportunity:

- **Waste-to-Value Tech**

Converting textile waste into high-demand outputs such as pyrolysis oil and carbon black is now both technically proven and economically viable – particularly with modular, decentralized facilities that can be deployed rapidly.

- **Sustainable Infrastructure Materials**

Carbon mesh, manufactured using recovered energy, delivers a high-performance, low-emission alternative to steel in bridge reinforcement and infrastructure projects – addressing a critical decarbonization challenge.

- **Carbon Credit Revenue**

Each pyrolysis plant can generate up to 70,000 tons of IoT-verified, tokenized CO₂ credits annually, aligned with lifecycle analysis benchmarks (IPCC, Worldsteel). This creates transparent, verifiable revenue streams for both compliance and voluntary markets.

When combined with the rise of tokenized ecosystems, the result is a powerful new model – one that directly links industrial output with blockchain participation and rewards, bridging real-world impact with digital value creation.

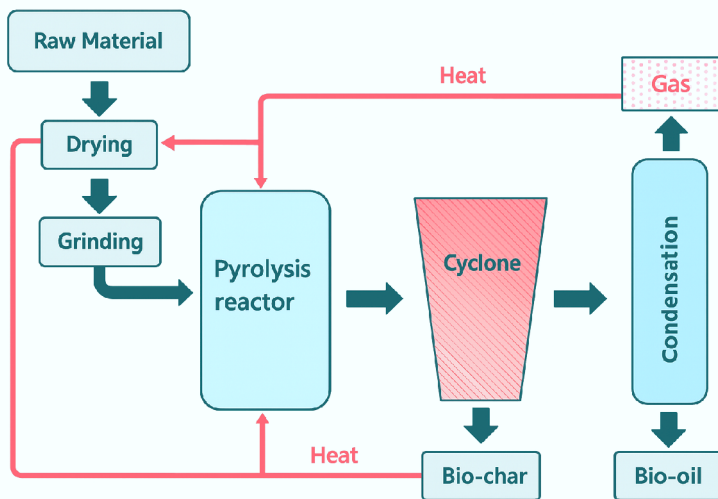


3. Technology Overview

At the heart of STOCOIN lies modular pyrolysis technology – a thermal decomposition process that converts textile waste into high-value resources without combustion.

This process delivers three primary outputs:

- Pyrolysis Oil – A synthetic fuel for industrial and energy applications.
- Refined Carbon Black – A critical material used in pharmaceuticals, rubber, plastics, and coatings.
- Syngas & Heat – Captured and recycled to power plant operations, reducing external energy demand.



Each facility processes up to 50,000 tons of textile waste annually, producing:

- ~17.5 million liters of pyrolysis oil
- ~12,500 tons of refined carbon black
- ~40,000–70,000 tons of verifiable CO₂ credits

Future Expansion – Carbon Mesh

In addition to core pyrolysis outputs, STOCOIN is developing carbon mesh as a high-value vertical. This innovation strengthens the ecosystem while maintaining a primary focus on pyrolysis oil, carbon black, and CO₂ credits.

Carbon mesh is a lightweight, corrosion-resistant reinforcement material designed to replace steel in bridges and infrastructure projects.

Key Advantages:

- Up to 80% lighter than steel
- ~90% lower CO₂ emissions during production
- Superior durability and performance
- Increasing demand from green infrastructure markets

By manufacturing and monetizing carbon mesh in-house, STOCOIN diversifies its revenue streams and captures added value from textile waste – creating a vertically integrated, circular, and scalable model.

On-Chain Transparency

All outputs are tokenized, IoT-verified on-chain, and linked to NFTs for full transparency and traceability.

This ensures that every liter of oil, ton of carbon black, and CO₂ credit is verifiable in real time, building unmatched trust with both industrial clients and investors.



| 4. Business Model

STOCOIN is structured around a multi-revenue, asset-backed business model that combines cleantech innovation with decentralized finance. Our approach is simple: convert waste into industrial value – and tokenize every step of the process.

Revenue Streams

- **Pyrolysis Oil Sales**
Supplied to industrial clients and energy distributors as a sustainable alternative to fossil fuels.
- **Carbon Black Distribution**
Delivered to manufacturers in automotive, pharmaceutical, and construction industries.
- **CO₂ Credit Tokenization**
Each plant generates up to 70,000 tons of IoT-verified CO₂ savings per year – tokenized and made accessible via environmental marketplaces.
- **Carbon Mesh Production (High-margin vertical)**
Manufactured using pyrolysis energy. Sold to infrastructure developers as a sustainable steel replacement.
- **Staking and Network Participation**
Protocol-based fees may be distributed through ecosystem reward mechanisms for STOCOIN holders.
These are dynamic, non-guaranteed, and purely tied to network activity, ensuring compliance as a utility token.

Impact Driver

One of the strongest value drivers of STOCOIN lies in its ability to generate high-integrity, tokenized CO₂ credits, linked directly to verifiable industrial impact.

Each modular pyrolysis plant is designed to process 50,000 tons of waste per year, yielding up to 70,000 tons of avoided CO₂ emissions, based on conservative, real-world calculations.

Emissions Avoidance Breakdown

Source of CO ₂ Avoidance	Ton CO ₂ /year	Explanation
Avoided landfill/incineration of textile waste	~40,000 t	Based on ~0.8 ton CO ₂ per ton waste avoided (IPCC/LCA data)
Fossil fuel substitution via recovered pyrolysis oil/gas	~200 t	Internal reuse of energy for heating ovens
Replacement of steel in construction via carbon mesh	~3,800 t	2,000 tons of steel replaced × 1.9 t CO ₂ /ton steel (Worldsteel data)
Additional process optimizations & system efficiency	~6,000–26,000 t	Includes avoided transport emissions, infrastructure footprint, biochar effect*
→ Total Estimated CO₂ Avoided per Plant	~70,000 tons	

Revenue potential is estimated at approximately €85 per ton of CO₂ credits, resulting in up to €5.95 million per plant per year, based on current voluntary carbon market benchmarks.

Certification Track (underway):

- ISO 14064-2 LCA analysis under development.
- Engagements initiated with Puro.Earth, Verra, South Pole, and DNV.
- Registration expected within ~3 months after commissioning of the first plant.

CO₂ Credit Revenue Model

STOCOIN's CO₂ revenue model combines real-time IoT-verified data with established certification frameworks to ensure market integrity and compliance. Credits are tokenized on-chain to guarantee traceability, transparency, and liquidity, addressing the trust gap in traditional registries.

STOCOIN will launch a proprietary CO₂ Exchange Platform, enabling the transparent trading of IoT-verified, tokenized carbon credits.

This platform will:

- Run on Ethereum Layer 2 (e.g., Arbitrum or Polygon) to ensure scalability and low transaction costs.
- Integrate with decentralized carbon registries (e.g., Toucan, KlimaDAO) while maintaining STOCOIN's unique IoT-verified data integrity.
- Allow direct CO₂ credit purchases using STOCOIN, creating native token demand and ecosystem utility.
- Provide smart contract-based APIs to support ESG and CSR reporting requirements for enterprises.
- Serve both institutional and retail participants, ensuring broad accessibility and market depth.



| 4.1 Business Model

All credits will be backed by IoT-verified, on-chain proof-of-output from STOCOIN's operational facilities. Third-party certification frameworks (e.g., Verra, Gold Standard) are under evaluation, but STOCOIN's native sensor-based tracking already ensures unmatched transparency. This establishes STOCOIN as a utility token enabling transparent access to cleantech CO₂ credits, rather than a speculative asset.

Token Utility (compliance-safe)

The STOCOIN token is designed as the operational utility of the ecosystem:

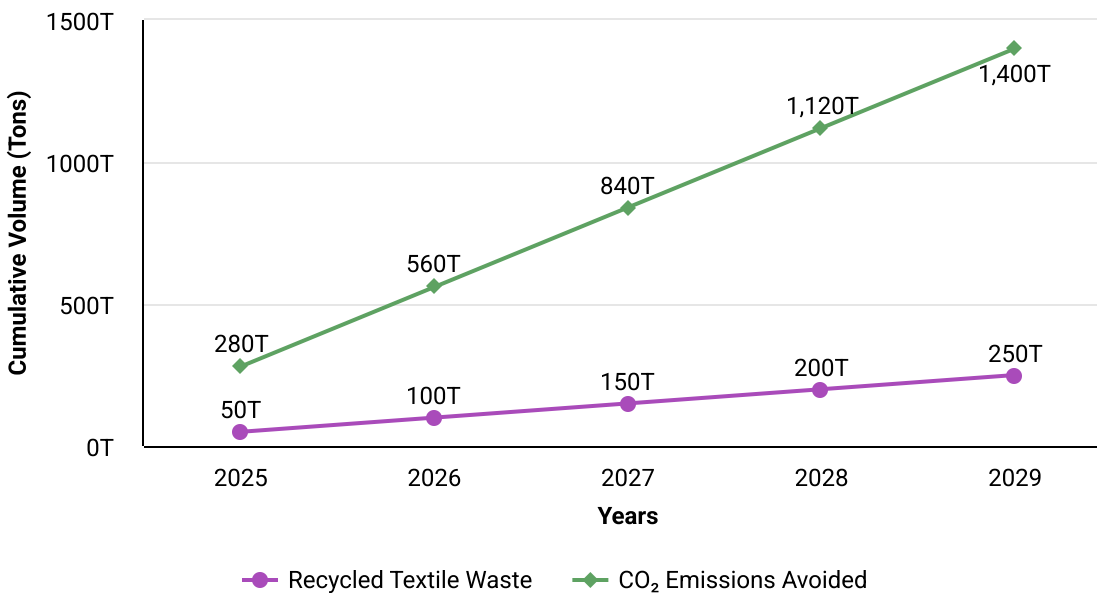
- Stake tokens to participate in protocol-based reward mechanisms.
- Use tokens to access plant capacity and acquire IoT-verified CO₂ credits.
- Vote in governance processes regarding new deployments and ecosystem policies.
- Trade NFT-linked credits and production data within the marketplace.
-

Modular & Scalable

Each facility is modular and can be deployed in 6–9 months, allowing rapid expansion across India, the EU, and other regions.

A DAO-lite model enables token holders to participate in governance without implying equity or ownership rights, ensuring regulatory alignment.

Cumulative Environmental Impact – Waste Recycled & CO₂ Emissions Avoided



By 2029, STOCOIN is projected to process 250,000 tons of textile waste and avoid approximately 1.4 million tons of CO₂ emissions – demonstrating a high-impact, scalable ESG opportunity.

This chart illustrates STOCOIN's projected environmental impact over five years, showing accumulated volumes of processed textile waste and CO₂ emissions avoided. The CO₂ savings estimate is based on lifecycle assessment (LCA) data indicating approximately 5.6 tons CO₂ equivalent avoided per ton of textile waste recycled.



5. Financial Highlights

STOCOIN’s financial model is rooted in tangible, high-margin industrial output. Each modular plant is engineered to deliver scalable and verifiable revenue, underpinned by real-world production data and IoT-based tracking.

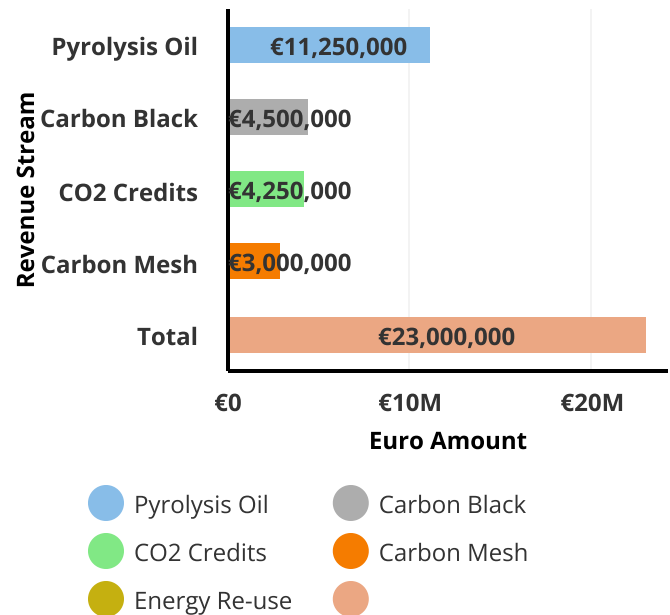
Estimated Plant-Level Economics

- Total annual revenue potential: ~€23M per plant
- Carbon mesh vertical (future expansion): margins exceeding 50%, with rapidly growing global demand for green construction materials.

This represents a strategic differentiator in STOCOIN’s long-term industrial value capture.

Revenue Stream	Annual Revenue (€)	Details
Pyrolysis Oil	€11,250,000	17.5M liters × €0.64 – sold to industrial clients
Recovered Carbon Black	€4,500,000	12,500 tons × €360 – sold to rubber, pigment, fuel sectors
CO ₂ Credits	€4,250,000	50,000 tons × €85 (Verra-certified, under registration)
Carbon Mesh Structures	€3,000,000	40,000 m ² × €75 – used in infrastructure/construction
Total Gross Revenue	€23,000,000	Based on 50,000 tons of annual textile waste input

Projected Gross Revenue – Year One (Visual Overview)



Operational Efficiency

- Plants operate at >85% energy efficiency through recovered syngas.
- Modular deployment ensures competitive CAPEX and rapid time-to-market.
- A DAO-lite governance model minimizes centralized overhead and enables responsive ecosystem decisions.

Token-Based Participation

STOCOIN is designed to incentivize active participation within its ecosystem. Token holders who stake support network security, infrastructure growth, and governance engagement.

- Rewards are usage-based and protocol-driven, reflecting actual ecosystem activity.
- Incentives are dynamic and non-guaranteed, evolving as the network scales.
- No fixed returns or promises are made – outcomes depend entirely on real-world production and user contribution.

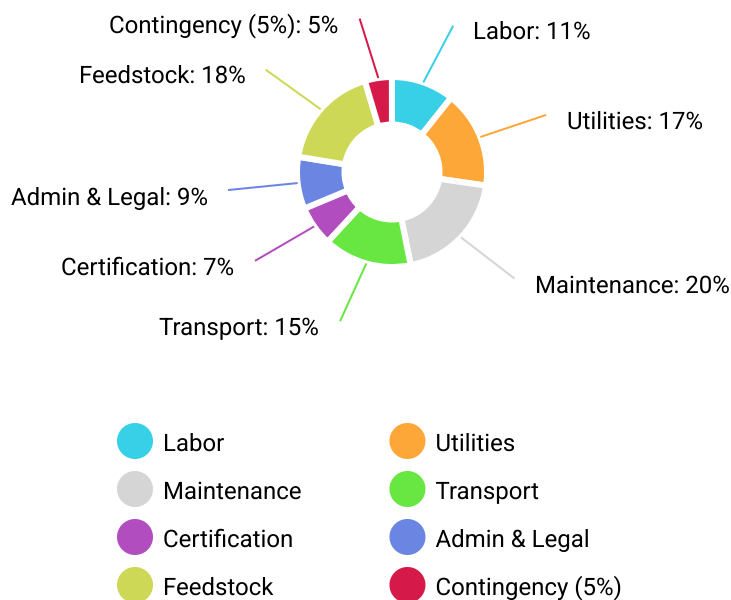
5.1 Financial Highlights

OPEX

Annual Operating Expenses (OPEX) Breakdown per Facility

Expense Category	Amount (€)	Description
Labor (30 FTE – India)	€450,000	€1,250/month incl. benefits × 30 FTE × 12 months
Utilities (Residual Power)	€580,000	Non-covered power needs beyond syngas recovery
Maintenance & Downtime	€610,000	Filters, wear parts, repair cycles
Logistics & Distribution	€525,000	Fuel & product transport, external sorting pickups
Auditing & Certification	€240,000	Verra, ISO, audits, LCA reporting
Admin, Legal & Insurance	€310,000	Overhead, accounting, legal, HQ ops
Feedstock Handling (50,000t)	€623,750	€12.47/ton avg. for collection, sorting, storage
Contingency Reserve (5%)	€161,250	Buffer for unforeseen costs (5% of OPEX)
Total Annual OPEX	€3,500,000	Fully inclusive operations model

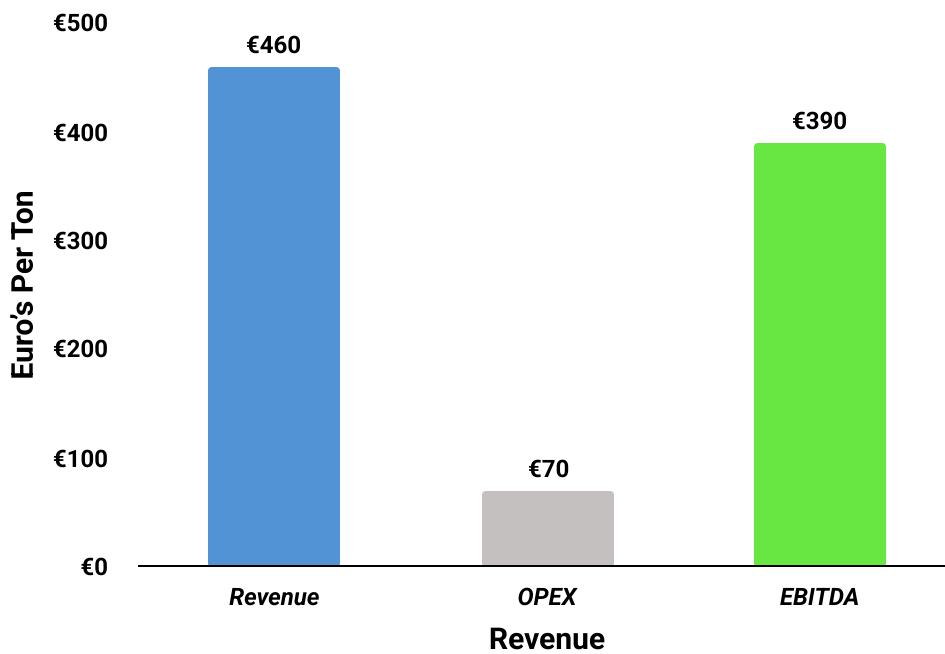
Annual Operating Cost Distribution (Visual Overview)



5.2 Financial Highlights

Unit Economics

Unit Economics – EBITDA Breakdown per Ton of Processed Textile Waste



At €460 revenue and €70 OPEX per ton, each unit of textile waste processed contributes approximately €390 in gross operating profit – a key metric of STOCOIN's financial efficiency.

Unit-level profitability per ton of textile waste processed at full plant capacity (50,000 tons/year). The chart illustrates the gross revenue generated, operational cost incurred, and resulting EBITDA margin per ton. STOCOIN achieves a high-margin model by combining low-cost feedstock, energy recovery, and vertical integration.



6. Tokenomics & Fund Allocation

Token Sale Structure

- Total Supply: 1,000,000,000 STOCOIN
- Tokens for Sale: 40% (400M tokens)
- Hard Cap: €80,000,000
- Soft Cap: €20,000,000

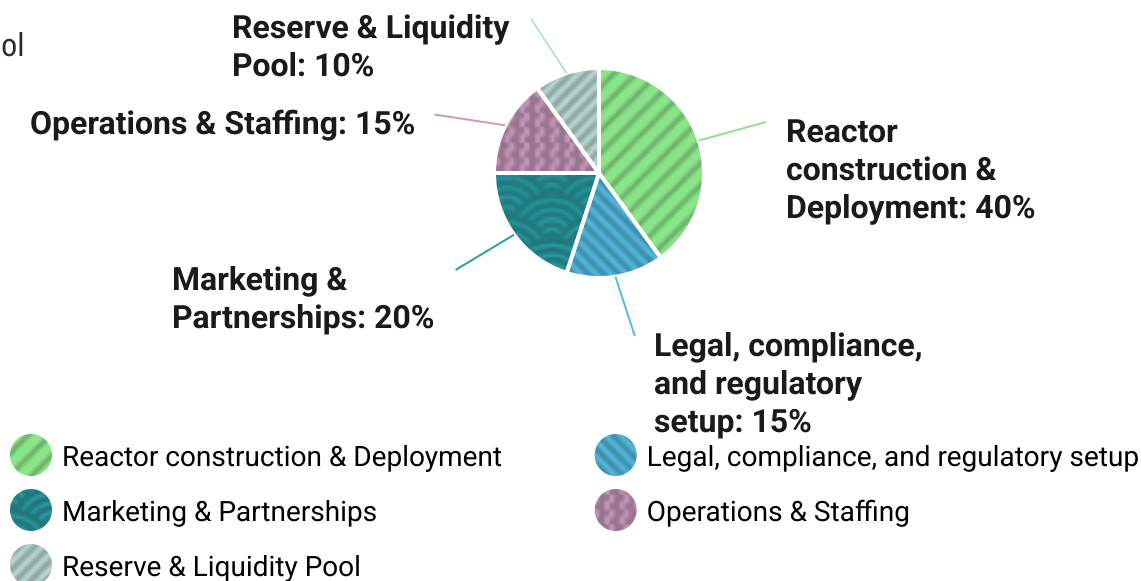
Sales Rounds	Tokens	Price	Raise
Private Sale	100M	€0.15	€15M
Public Sale	300M	€0.216	€65M
Total	400M	—	€80M

Allocation

Category	% of Supply	Vesting Details
Sale (Private + Public)	40%	No vesting – fully tradable at TGE
Team & Advisors	20%	6-month cliff, then monthly release over 12 months
Ecosystem & Partnerships	15%	3-month cliff, then monthly release over 12 months
Staking & Rewards	15%	Linear release over 36 months
Treasury & Reserves	10%	Fully flexible for strategic deals

Use of Funds:

- 40% Reactor construction & Deployment
- 15% R&D & Technology Development
- 20% Marketing & Partnerships
- 15% Operations & Staffing
- 10% Reserve & Liquidity Pool



Use of Funds

Category	Allocation	Amount (at €80M)	Purpose
Reactor Construction & Deployment	40%	€32M	Build and commission pyrolysis plants for textile waste-to-energy conversion
R&D & Technology Development	15%	€12M	Improve pyrolysis efficiency, carbon mesh innovation, blockchain integration
Marketing & Partnerships	20%	€16M	Global outreach, influencer campaigns, ESG partnerships
Operations & Staffing	15%	€12M	Salaries, facilities, and operational costs
Reserve & Liquidity Pool	10%	€8M	Market stabilization, emergency fund

Token Utility

STOCOIN enables participation in the cleantech infrastructure ecosystem:

- Stake tokens to support network operations and access protocol-based, non-guaranteed participation rewards.
- Access IoT-verified CO₂ credits, carbon mesh-linked NFTs, and future CleanTech services.
- Vote in protocol governance on plant deployments, ESG initiatives, and DAO-lite proposals.
- Transact within a decentralized marketplace for sustainable industrial outputs and services.

Legal Disclaimer:

STOCOIN is not a security and does not represent equity, debt, or profit rights.

It is a functional utility token designed to provide access, participation, and governance within a tokenized cleantech ecosystem.



7. Roadmap

ROADMAP

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We are building real- world infrastructure - backed by a clear, phased roadmap

Q2 - 2025

- Token infrastructure development

Q3 - 2025

- Public token sale via DEX, staking and governance launch

Q4 - 2025

- First reactor procurement and groundworks begin

Q1 - 2026

- Commissioning of the first operational plant Co2 exchange platform launch

2026-2027

- Expansion across India and EU bridge retrofit partnerships

Beyond

- DAO-based expansion Carbon mesh mass production infrastructure-linked NFT's

2027 and Beyond

- Global rollout of modular pyrolysis plants through DAO-driven proposals
- Scaling carbon mesh production for bridges, infrastructure, and public works
- Full ecosystem integration: CleanTech marketplace, enterprise APIs, and ESG reporting dashboards

STOCOIN's growth is tied to real infrastructure.

With every plant deployed, token utility expands, new stakeholders join, and the network compounds its economic and environmental value.



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| 8. Team & Partners

STOCON Group – Industrial & Engineering Alliance

An alliance of established industrial and engineering companies providing the operational foundation for STOCOIN's waste-to-value infrastructure.

Stocon Engineering (Belgium)

Specialist in advanced industrial process development, with decades of experience in scaling complex cleantech operations. Responsible for the design and optimization of STOCOIN's pyrolysis plants to ensure efficiency, reliability, and environmental performance.

Synergasia Engineering (Poland)

Engineering partner executing industrial projects for STOCON Group. Expertise spans construction, process development, facility management, and maintenance. Plays a central role in plant implementation and optimization. Synergasia also delivers major civil infrastructure projects such as bridge renovation, extending STOCOIN's reach into sustainable infrastructure.

Stocon Bharath (India)

Regional partner for South Asia, preparing to lead production of STOCOIN-powered textile recycling plants. Active discussions are underway in Andhra Pradesh for land acquisition and large-scale facility deployment.

Decentralized Smart Contract Auditors – Ensuring blockchain security and transparency through independent code audits.

Local Municipalities & Industrial Zones – Supporting plant deployment with permits, infrastructure access, and regional cooperation.

Web3 Infrastructure Platforms – Powering STOCOIN's governance, NFT integration, and decentralized marketplace logic.

Together, these partnerships combine industrial strength with blockchain infrastructure, enabling STOCOIN to deliver scalable cleantech projects and measurable environmental impact worldwide.



SYNERGASIA

ENGINEERING CIRCULAR SOLUTIONS



STOCON BHARATH PVT LTD



**STOCON
ENGINEERING**

- SMART SENSORS. REAL SAVINGS -



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| 9. Legal Structure & Disclaimers

Legal Structure

STOCOIN is developed and operated by a multidisciplinary team with expertise in industrial engineering, blockchain, and sustainability, with active projects in multiple regions.

The STOCOIN token is issued via a secure, privately-held smart contract wallet, with all transactions verifiable on-chain.

Token Status

STOCOIN is a utility token designed to enable:

- Access to network services and infrastructure-linked products
- Participation in governance processes
- Eligibility for protocol-based ecosystem incentives

STOCOIN does not represent equity, debt, profit rights, or ownership in any legal entity.

Risk Disclosure

Participation in STOCOIN involves inherent risks, including but not limited to:

- Regulatory changes in digital assets, energy, or carbon markets
- Potential infrastructure delays or supply chain disruptions
- Token value fluctuation due to market conditions
- Evolving standards for CO₂ credit recognition and monetization

STOCOIN does not guarantee fixed or financial returns.

Participants should carefully evaluate their own risk profile and are encouraged to seek independent legal, tax, and financial advice before acquiring or using the token.



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| 10. Conclusion & Call to Action

The global textile waste crisis is growing – but so is the opportunity to turn waste into wealth. STOCOIN delivers a verifiable, scalable solution that fuses blockchain innovation with clean industrial infrastructure.

This is not speculation.
This is a movement built on engineering, impact, and transparency.

By joining the STOCOIN ecosystem, you become part of a future where:

- CleanTech and DeFi drive a circular industrial economy
- Token holders participate in infrastructure governance
- Real-world CO₂ savings are tokenized into transparent value
- Infrastructure-backed tokens expand global economic inclusion

Get Involved

- Buy and stake STOCOIN to support the network
- Vote on ecosystem governance through DAO-lite proposals
- Earn non-guaranteed rewards tied to ecosystem activity
- Engage with the community to amplify impact

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Be early. Be impactful. Be part of the cleantech industrial revolution.