



AppleTree (APTESG)

Whitepaper

The currency of a sustainable future

Project Information

Project Name: **AppleTree**

Token Symbol: **APTESG**

Blockchain: **Arbitrum**

Token Standard: **ERC-20**

Decimals: **18**

Smart Contract Address: [0x58665cf4742476532ca2387bcc1631af21c10c79](https://arb1.arbitrum.io/address/0x58665cf4742476532ca2387bcc1631af21c10c79)

Official Website: <https://appletreetoken.com>

dApp: <https://dapp.appletreetoken.com>

ESG Dashboard: <https://dapp.appletreetoken.com/esg-dashboard>

Official Email: info@appletreetoken.com

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Legal Disclaimer

This document is for informational purposes only and does not constitute financial, investment, legal, or tax advice.

The APTESG token is intended to function as a utility token within the AppleTree ecosystem. It does not represent ownership, equity, or rights to profits.

Participation in the AppleTree ecosystem involves risks, including but not limited to technological risks, regulatory uncertainty, and market volatility.

Nothing in this document should be interpreted as an offer to sell or a solicitation of an offer to buy any financial instrument.

Readers should conduct their own research and consult professional advisors before making any decision related to digital assets.

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Executive Summary

AppleTree is a blockchain-powered sustainability ecosystem designed to incentivize responsible business practices through Environmental, Social, and Governance (ESG) standards.

The project introduces a transparent and verifiable certification system where companies can demonstrate their ESG commitment while gaining visibility and credibility through blockchain technology.

At the core of the ecosystem is the APTESG token, an ERC-20 utility token deployed on the Arbitrum network, used to facilitate participation, incentives, and ecosystem interactions.

AppleTree combines three key components:

1. ESG Certification Infrastructure

The AppleTree ESG Dashboard allows companies to submit ESG data, upload supporting evidence, and undergo a structured verification process. Certified companies receive a blockchain-verifiable ESG status and appear in the public AppleTree directory.

2. Incentive-Driven Token Economy

The APTESG token incentivizes participation within the ecosystem through mechanisms such as staking rewards, liquidity incentives, and ESG certification bonuses. These mechanisms encourage long-term engagement and sustainability adoption.

3. Transparency Through Blockchain

Certification results, ESG reports, and verification artifacts are anchored to decentralized technologies such as blockchain and IPFS, ensuring transparency, traceability, and public accountability.

The AppleTree ecosystem aims to bridge the gap between sustainability initiatives and blockchain technology by creating a system where responsible behavior is measurable, verifiable, and economically incentivized.

Through its ESG certification platform, token incentives, and transparent reporting infrastructure, AppleTree seeks to contribute to the global transition toward a more responsible and sustainable economy.

Introduction



In the rapidly evolving landscape of blockchain technologies, AppleTree stands out as an innovative project that combines sustainability and technology to address one of the most pressing challenges of our time: promoting responsible practices that align with Environmental, Social, and Governance (ESG) principles. The initiative aims to create an inclusive ecosystem where individuals and companies can collaborate to achieve sustainability goals, rewarding virtuous behaviors through the use of the APTESEG token.

AppleTree is not just a technological project but a movement that embraces a new vision for the future. In a world where trust between businesses, governments, and citizens is often challenged, the transparency and immutability offered by blockchain become essential tools to ensure accountability and credibility. Through the APTESEG token, AppleTree provides an incentivizing system that rewards ESG-certified companies and supports individuals actively contributing to the growth of the ecosystem.

In a global context where ESG investments are growing exponentially, AppleTree positions itself as a pioneer of a new era in which technology not only supports sustainability but accelerates it. AppleTree's mission is clear: to use blockchain to create value, promoting a fairer and more responsible economy.

Vision

AppleTree envisions an ecosystem where sustainability is not just an ideal but a tangible, incentivized reality. We imagine a future in which every company, regardless of size, is motivated to implement sustainable practices through the recognition offered by the APTESEG system. Through blockchain technology, we aim to build a transparent, secure, and accessible platform that enables everyone to participate in global change.

Our vision goes beyond promoting ESG standards to include education and empowerment. We believe that every individual has the potential to contribute to a more sustainable future, and we want to provide the tools and incentives to make it happen. With AppleTree, sustainability becomes not just an ethical choice but also an economically advantageous decision.

Mission

AppleTree was created with an ambitious mission: to leverage the power of blockchain to accelerate the adoption of ESG practices on a global scale. Our mission is structured around three fundamental pillars:

1. [Incentivizing Sustainability](#): Offering tangible rewards, in the form of APTESEG tokens, to those who adopt sustainable practices or support the ecosystem.
2. [Promoting Transparency](#): Utilizing blockchain technology to create an immutable, universally accessible ledger that guarantees the credibility of ESG certifications.
3. [Facilitating Collaboration](#): Building a global network of companies, accredited organizations, and individuals working together to achieve common sustainability goals.

AppleTree goes beyond simply rewarding virtuous behaviors; it seeks to educate the public about the importance of ESG standards, fostering a community that is both aware and committed to change.

Long-Term Goals

AppleTree's goals extend beyond the creation of a blockchain ecosystem. We aim to build a future where sustainability is a priority across all economic sectors, with the APTESG token acting as a catalyst for this transformation. Our objectives include:

1. [Global Adoption of the APTESG Token](#): Working to establish APTESG as a standard for rewarding ESG behaviors, adopted by companies, governments, and individuals.
2. [Partnerships with Accredited Organizations](#): Establishing collaborations with internationally recognized ESG certification bodies to ensure the validity and credibility of issued certifications.
3. [Network Expansion](#): Creating a global network of ESG-certified companies, fostering collaboration and the exchange of best practices.
4. [Education and Awareness](#): Investing in educational campaigns to raise awareness of the benefits of ESG standards and blockchain adoption.
5. [Development of New Features](#): Integrating new technologies, such as NFTs and decentralized governance tools, to enhance interaction and system adoption.
6. [Tangible Impacts on the ESG Sector](#): Regularly monitoring and reporting progress achieved through the APTESG system, demonstrating the project's positive impact on global sustainability.

AppleTree is a forward-looking project driven by ambition and determination, recognizing that meaningful change requires effort and collaboration. We firmly believe that, with the support of our community, we can transform the vision of a more sustainable world into a concrete reality.

Market Analysis



Market Analysis: Insights on the ESG Sector and Blockchain Integration

In recent years, the Environmental, Social, and Governance (ESG) sector has grown rapidly, becoming a top priority for companies, investors, and governments worldwide. According to recent estimates, assets managed with ESG criteria have exceeded \$35 trillion, representing more than one-third of the global total assets under management. This growth not only underscores the importance of sustainable practices but also highlights a shift toward a more responsible global economy.

The Growth of the ESG Sector

The adoption of ESG standards is driven by several factors, including:

- [Consumer Demand](#): Modern consumers are increasingly conscious of sustainability, preferring products and services that respect the environment and human rights.
- [Regulatory Pressure](#): Governments and international organizations are implementing stricter regulations to require companies to reduce carbon emissions, promote equity, and adopt transparent practices.
- [Investor Preferences](#): Institutional investors are focusing more on ESG criteria, recognizing that companies with sustainable practices are more likely to achieve long-term success.

Despite this impressive growth, the ESG sector faces significant challenges, including a lack of transparency, the absence of uniform standards for ESG assessment, and "greenwashing," where companies claim to be sustainable without genuine commitment. This is where blockchain technology comes into play.

Blockchain as a Solution to ESG Challenges

Blockchain offers a range of benefits that make it an ideal solution for addressing the ESG sector's challenges. Key advantages include:

1. [Transparency and Immutability](#): Blockchain creates an immutable ledger of transactions and data, enabling companies to document and demonstrate their commitment to sustainable practices.
2. [Accountability](#): Blockchain enables real-time monitoring of ESG standards compliance, ensuring companies cannot falsify or manipulate data. This is particularly important for combating greenwashing.
3. [Accessibility and Inclusion](#): Blockchain-based solutions can be leveraged by small and medium enterprises, which often lack the resources for expensive sustainability programs. Through tokenization, companies can access financial incentives for implementing ESG practices.
4. [Economic Incentives](#): Blockchain facilitates the creation of reward systems based on tokens. In AppleTree's case, the APTESG token is used to reward companies meeting ESG standards.
5. [Supply Chain Traceability](#): Blockchain can be used to track the origin of materials and products, ensuring they are ethically and sustainably sourced. This is particularly relevant in industries such as fashion, food, and technology.

AppleTree: Market Positioning

AppleTree is strategically positioned at the intersection of sustainability and technological innovation. Offering a unique combination of economic incentives, transparency, and accountability, the project aims to become a benchmark in the emerging ESG token market.

Through the APTESG token, AppleTree not only rewards virtuous behaviors but also creates a sustainable economic system connecting companies, consumers, and investors.

Future Perspectives

The future of the ESG sector will depend on the ability to implement tools that ensure transparency and provide incentives for companies. Blockchain is not just a technology but a catalyst for systemic change. With the growing adoption of blockchain-based solutions, the ESG market is set to become more accessible, inclusive, and responsible.

AppleTree not only capitalizes on this trend but amplifies it, creating a sustainable model that can be replicated globally. The combination of technology, sustainability, and economic incentives provides a clear vision of how the future of the ESG sector can be transformed.

Challenges and Opportunities

Current Issues in the ESG Sector

Despite the growing focus on Environmental, Social, and Governance (ESG) criteria, the sector remains plagued by numerous challenges that hinder its full potential. The key obstacles include:

1. [Lack of Transparency](#): One of the major issues in the ESG sector is the difficulty in verifying companies' adherence to declared standards. Many organizations publish sustainability reports, but there is no uniform method to ensure the accuracy and completeness of this information, fostering distrust among investors and consumers.
2. [Greenwashing](#): Greenwashing is an increasingly common practice where companies promote a sustainable image without genuinely adopting responsible practices. This not only damages the credibility of the ESG sector but also distorts the market, penalizing genuinely committed companies.
3. [High Certification Costs](#): Obtaining ESG certifications is often a complex and costly process, which can be prohibitive for small and medium enterprises (SMEs). This limits participation and reduces the overall impact of the ESG sector.
4. [Lack of Uniform Standards](#): There is no universal regulation or set of criteria for measuring corporate sustainability. This creates confusion among companies, investors, and other stakeholders, making it difficult to compare ESG performance across organizations.
5. [Barriers to Consumer Access](#): Consumers often lack direct access to a company's ESG information or fail to understand how their choices impact the market. This limits their ability to make informed decisions and drive change.
6. [Traceability Challenges](#): In industries with complex supply chains, such as fashion and agriculture, it is difficult to trace the origin of materials and verify whether they were sourced sustainably and responsibly.

Opportunities Presented by AppleTree and Blockchain

Despite these challenges, the ESG sector presents immense opportunities, especially when integrated with innovative technologies like blockchain. AppleTree positions itself as a solution to bridge existing gaps, transforming challenges into opportunities:

- Total Transparency**: Blockchain enables the creation of an immutable and publicly accessible ledger where companies can document their ESG progress. This eliminates the need for self-reported data and ensures unprecedented transparency.
 - **Opportunity for AppleTree**: AppleTree can become a benchmark for ESG certification recording, offering a platform where data is verifiable and accessible to all.
- Combatting Greenwashing**: Through decentralized verification of ESG data on the blockchain, AppleTree eliminates the possibility of companies claiming false progress. This creates a fairer market where truly sustainable companies are rewarded.
 - **Opportunity for AppleTree**: Position itself as a reliable platform for ESG verification by collaborating with accredited organizations and promoting high standards of authenticity.
- Reducing Certification Costs**: Blockchain automates much of the verification process, reducing operational costs for obtaining certifications. This makes the ESG sector more accessible, especially for SMEs.
 - **Opportunity for AppleTree**: Offer competitively priced digital ESG certifications, attracting a larger number of companies to the ecosystem.
- Economic Incentives**: AppleTree uses the APTESG token to incentivize sustainable behaviors, offering rewards for participating in the ESG system. This not only motivates companies but also creates an ecosystem where participants directly benefit from their contributions.
 - **Opportunity for AppleTree**: Become the first globally used ESG token as an incentive tool for companies and consumers.
- Standardization of ESG Criteria**: Through smart contracts, AppleTree can implement uniform ESG criteria automatically applied to all participating companies. This simplifies the certification process and provides greater clarity to stakeholders.
 - **Opportunity for AppleTree**: Develop and promote globally accepted ESG standards by collaborating with organizations and governments.
- Consumer Education**: AppleTree's platform can be used to educate consumers about the importance of ESG standards and how their decisions influence the market. This increases awareness and participation.
 - **Opportunity for AppleTree**: Create a global community of informed users who use the APTESG token to promote positive change.
- Supply Chain Traceability**: AppleTree can leverage blockchain to track the origin of materials, offering stakeholders a comprehensive view of the supply chain. This is particularly useful in sectors like agriculture and fashion, where traceability is a major challenge.
 - **Opportunity for AppleTree**: Collaborate with companies to implement blockchain-based traceability solutions, enhancing consumer trust.

AppleTree's Strategic Positioning

AppleTree is uniquely positioned to capitalize on the opportunities offered by the ESG sector and blockchain technology. By integrating transparency, economic incentives, and sustainability, the project can address the sector's primary challenges and transform them into competitive advantages. With the APTESG token at its core, AppleTree aims to create a self-sustaining ecosystem where every participant contributes to global change and benefits from it.

In a rapidly evolving market, AppleTree stands out as one of the few initiatives capable of combining technological innovation with tangible social impact. This combination not only ensures short-term success but also lays the foundation for sustainable growth in the long term.

Solutions Offered by AppleTree



AppleTree positions itself as a revolutionary platform addressing the major challenges of the ESG (Environmental, Social, Governance) sector through blockchain integration and incentive mechanisms based on the APTESG token. Below are the key solutions AppleTree provides to resolve market issues, delivering transparency, fairness, and sustainability.

Transparency and Immutability with Blockchain

A major challenge in the ESG sector is the lack of transparency in companies' declared sustainable practices. AppleTree addresses this by leveraging blockchain technology to ensure immutable and publicly accessible ESG data records.

How it works:

Every ESG certification and transaction related to corporate progress is recorded on the blockchain. This distributed ledger ensures that data cannot be altered or manipulated.

Benefits:

- Reduces the risk of greenwashing.
- Enhances trust among investors, consumers, and companies.
- Provides direct, transparent access to information for all stakeholders.

Accessible Digital ESG Certifications

AppleTree offers blockchain-based digital certifications, reducing the cost and complexity of traditional processes. This is particularly beneficial for small and medium enterprises (SMEs), often excluded from ESG programs due to high expenses.

Key Features:

- Certifications issued directly on the blockchain, ensuring authenticity.
- Simplified processes through smart contracts that automate ESG criteria verification. Lower costs compared to traditional certifications.

Benefits:

- Inclusion of more companies in the ESG ecosystem.
- Promotion of large-scale sustainability, engaging SMEs.
- Strengthened credibility through blockchain technology.

Economic Incentives via the APTESG Token

The core of the AppleTree ecosystem is the APTESG token, designed to incentivize virtuous behavior by companies and participants.

Specific Solutions:

Liquidity Bonuses: AppleTree rewards users providing market liquidity with a 10% bonus in tokens for each contribution, up to a maximum of 1,000,000 tokens.

Staking: Users can stake their tokens and receive a bonus of up to 10%, with a maximum limit of 1,000,000 tokens distributed.

Company Certifications: The first 50 companies obtaining ESG certification receive a bonus of 1,000 tokens each, totaling 50,000 tokens.

Benefits:

- Creation of a self-sustaining ecosystem based on incentives.
- Promotion of sustainability through tangible rewards.
- Active engagement of the community and businesses.

Annual Treasury Allocation

AppleTree introduces a mechanism designed to support ESG-certified companies through a potential annual allocation of up to 10% of the ecosystem treasury. This mechanism aims to reward companies demonstrating ongoing commitment to ESG standards.

How it works:

Up to 10% of the treasury may be allocated among ESG-certified companies based on measurable ESG progress and ecosystem participation. The allocation is determined according to the evaluation of sustainability initiatives and their impact.

Benefits:

- Long-term incentives to maintain and improve ESG practices.
- Creation of a continuous accountability mechanism for companies.
- Fair and transparent allocation of treasury resources.

Education and Awareness

AppleTree goes beyond offering technological tools by committing to educating the community on the importance of ESG standards. Through awareness and training initiatives, the project aims to build an informed and active community.

Proposed Solutions:

- Development of educational content on blockchain and ESG standards.
- Organization of events and workshops to engage the community.
- Launch of an e-learning platform to provide free educational resources.

Benefits:

- Increased awareness of the benefits of sustainability.
 - Engagement of a global community of participants.
 - Support for companies and individuals in adopting more responsible
-

ESG Dashboard



The AppleTree ESG Dashboard is the core digital infrastructure that enables companies to submit, verify, and publicly demonstrate their ESG commitments within the AppleTree ecosystem.

The system is designed to support a complete ESG certification workflow, combining structured data submission, document verification, scoring mechanisms, and public transparency.

The screenshot displays the AppleTree ESG Certification Dashboard. The interface includes a header with the AppleTree logo and 'ESG CERTIFICATION DASHBOARD' text, and a 'Connect Wallet' button in the top right corner. The main content area is divided into several sections:

- Verify your company:** A section with a green 'Start company verification' button and a note that the average verification time is 24-72 hours. A link to 'Learn about the treasury distribution policy' is also present.
- Certified Companies (2):** A section showing two certified companies, with a search bar and a list of companies. The companies are categorized by status: REGENERATIVE, IMPACT, TRUSTED, VERIFIED, and NOT CERTIFIED.
- Map:** A globe map showing the countries covered by the dashboard, with a green dot indicating the location of a certified company. The map is labeled with continents and countries, including Canada, Greenland, Svalbard, Russia, ASIA, Iceland, Norway, Belarus, Kyrgyzstan, United Kingdom, EUROPE, Turkmenistan, Spain, Greece, Iraq, Pakistan, Tunisia, Morocco, Algeria, Libya, Egypt, Oman, Mauritania, Mali, Niger, Chad, Ethiopia, Senegal, Mauritania, Mali, Niger, Chad, Ethiopia, Senegal, CAMEROON, TANZANIA, Mozambique, SOUTH AMERICA, and Namibia.

The background of the dashboard is a scenic image of a tree and wind turbines, with a green dot on the map indicating the location of a certified company.

Company Verification Workflow



Companies can initiate an ESG verification request through the dashboard interface.

The submission process includes multiple sections covering key ESG dimensions:

- Company Information
- Environmental Practices
- Social Responsibility
- Governance Standards
- Transparency and Consent

Organizations provide structured answers to ESG questions and may upload supporting documentation as evidence. The platform supports document uploads through secure storage integrations, ensuring traceability and verifiable records.

The submission lifecycle is tracked directly within the interface, allowing companies to monitor the status of their request (e.g., pending review, approved, rejected, or requiring additional information).

ESG Scoring and Certification Engine

The backend infrastructure includes a structured ESG scoring model that records evaluation data for each submitted response.

Reviewer inputs and evidence validation contribute to aggregated Environmental, Social, and Governance scores.

A dedicated certification engine evaluates the final result and determines the certification level based on defined criteria such as:

- minimum verified evidence
- critical ESG questions
- answer quality thresholds
- reviewer confidence

Certification levels may include progressive tiers designed to reflect the maturity of a company's ESG practices.

ESG Reports and Public Transparency

Once approved, companies may appear within the public ESG directory, where users can explore certified organizations through an interactive dashboard.

Certification results are published through multiple transparency layers:

- public company certification pages
- visible ESG badges and certification levels
- verification QR codes

ESG reports accessible through IPFS-based document references

The reporting pipeline generates structured ESG reports in JSON and PDF format, ensuring both human-readable and machine-readable transparency.

This architecture allows AppleTree to combine verification processes with public accountability, enabling companies to demonstrate measurable ESG engagement while allowing users to independently verify certification artifacts.

ESG Certification Levels



The AppleTree ESG certification framework is designed to recognize different levels of environmental, social, and governance maturity among participating companies.

Rather than applying a simple binary certification model (certified / not certified), AppleTree introduces a progressive certification structure that reflects the real ESG journey of an organization.

Each certification level represents a different stage of ESG adoption, transparency, and measurable impact.

Verified

The Verified level represents the entry point of the AppleTree ESG certification system.

At this stage, a company has successfully completed the ESG verification process and provided sufficient documentation to demonstrate basic compliance with the required Environmental, Social, and Governance standards.

This level confirms that:

- the company has completed the ESG questionnaire
- supporting documentation has been reviewed
- minimum ESG criteria are satisfied

Verified companies appear in the public ESG directory and receive their first certification badge.

Trusted

The Trusted level is granted to companies that demonstrate stronger ESG engagement and provide a higher level of verified evidence supporting their practices.

Organizations at this level typically show:

- consistent ESG policies
- stronger governance transparency
- documented sustainability initiatives
- higher overall ESG evaluation scores

The Trusted badge signals that the company has moved beyond basic compliance and has started implementing structured ESG practices.

Impact

The Impact level recognizes companies that demonstrate measurable positive outcomes related to environmental sustainability, social responsibility, or governance improvements.

At this stage, organizations typically provide stronger evidence of real-world impact, such as:

- sustainability initiatives
- measurable environmental improvements
- community or social contributions
- transparent governance frameworks

The Impact level indicates that ESG principles are actively integrated into the company's operations.

Regenerative

The Regenerative level represents the highest certification tier within the AppleTree ESG framework.

Companies reaching this level demonstrate a long-term commitment to sustainability and actively contribute to positive environmental and social outcomes beyond standard ESG practices.

Regenerative organizations typically:

- implement advanced sustainability initiatives
- pursue long-term environmental restoration or circular economy models
- contribute positively to communities and ecosystems
- maintain high transparency and governance standards

This level reflects organizations that are not only minimizing harm but actively creating positive systemic impact.

Platform Terms and Conditions

Access to and use of the AppleTree ESG Dashboard is governed by the official Terms of Service and Privacy Policy available on the AppleTree website.

Companies submitting ESG data through the platform agree to comply with the applicable terms, including transparency requirements, data protection policies, and certification conditions

The ESG certification process provided through the AppleTree Dashboard is designed to promote transparency and responsible practices. However, certification does not constitute financial, legal, or investment advice.

Tokenomics of AppleTree

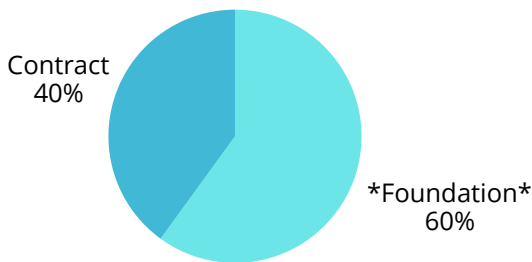


The tokenomics of AppleTree has been carefully designed to ensure sustainability, balanced incentives, and transparency, creating an ecosystem that promotes Environmental, Social, and Governance (ESG) sustainability. The APTESG token is the core element of the entire ecosystem, used to reward virtuous behaviors, incentivize participation, and foster the ecosystem's growth.

Total Supply and Distribution

The total supply of APTESG is capped at 55,000,000 tokens, no more token will be created, ensuring transparency and economic stability. The token distribution has been planned to balance immediate needs and long-term project goals.

Token Distribution



Foundation: 33,000,000 tokens (60%) [locked by financial team]

The majority of the tokens are allocated to the Foundation to ensure liquidity and initial project management. This fund will be used to support project development, strategic collaborations, and promotional activities.

Contract: 22,000,000 tokens (40%)

These tokens are allocated to the smart contract to fund key incentives and initiatives, including:

Liquidity Bonuses: Incentives for liquidity providers, capped at 1,000,000 tokens.

Staking Bonuses: Rewards for users participating in staking, capped at 1,000,000 tokens.

ESG Certification: Incentives for the first 50 ESG-certified companies, with a total allocation of 50,000 tokens.

APTESG Rewards



BONUS SYSTEM

AppleTree is committed to creating an incentive-driven ecosystem that rewards sustainable behaviors. The main distribution mechanisms include:

Liquidity Bonuses

The liquidity bonus is designed for users who want to support the APTESG token's liquidity on Uniswap.

How it works:

- The user provides ETH on the Arbitrum network by filling out the dedicated field in the dApp.
- The contract automatically calculates the equivalent amount of APTESG tokens based on the current price.
- A new official liquidity position is created on Uniswap.
- The owner of the position is the contract owner, and users cannot withdraw this liquidity.
- The user receives the equivalent amount of APTESG. The User can withdraw 2% every day up to 50 days.
- After 30 days, the user can claim an extra 10% bonus in APTESG directly from the dApp.

Requirements:

- KYC-verified user.
- ETH must be provided on Arbitrum.
- Bonus is claimable after 30 days.
- The dApp will display the bonus amount and time remaining until it becomes available.

Example: If a user provides liquidity equivalent to 1,000 tokens, they will receive a total of 1,100 tokens.

Allocated Budget: 1,000,000 (APTESG) tokens.



Staking Bonuses

By staking APTESG tokens, users can earn up to a 10% bonus, depending on how long the tokens are locked.

How it works:

The user accesses the dApp, enters the desired amount of APTESG to stake, and clicks "Stake Tokens". The tokens are locked in the contract.

Users can withdraw their staked tokens at any time, but the bonus depends on the staking duration:

Staking duration	Bonus Unlocked
0 - 90 days	0% (no bonus)
91 - 180 days	30% bonus
181 - 270 days	50% bonus
271 - 364 days	75% bonus
365 + days	100% bonus

Example:

If you stake 1,000 APTESG and leave it for 12 months, you'll receive 1,100 APTESG (your stake + 10% bonus).

If you stake 1,000 APTESG and leave it for 1 days, you'll receive 1,000 APTESG (no bonus).



Requirements:

KYC-verified user.

Bonus can be claimed anytime via the dApp, based on time elapsed.

Company Certification Bonus – 1,000 APTESG + Annual Treasury Share

Companies can apply for ESG certification and earn dedicated rewards within the AppleTree ecosystem.

[How it works:](#)

The company pays a certification fee of 3000 APTESG.

The company must be KYC-verified as a business entity.

The company must contact the team via the official website and submit the required documents for ESG certification eligibility.

Once approved, the company receives a 1,000 APTESG bonus (only for the first 50 certified companies).

[Allocated Budget for Certification Bonus:](#) 50,000 APTESG

Additionally, up to 10% of the treasury may be allocated annually, at the discretion of the protocol, to support certified companies demonstrating measurable ESG progress.

Allocation decisions are based on qualitative and quantitative ESG engagement criteria, evaluated by the AppleTree protocol team during the current centralized governance phase.

This allocation is discretionary, not automatic, and does not constitute a financial return, dividend, or investment yield.

The program is designed as an ecosystem incentive mechanism aimed at encouraging sustainable practices and long-term participation, not as a profit-distribution model.

The value of the APTESG token is primarily driven by its utility within the AppleTree ecosystem and its role in supporting sustainable initiatives.

Key factors influencing its value include:

1. Utility

- Payment for ESG certifications.
- Incentives for liquidity providers and stakers.
- Medium of exchange for activities within the ecosystem.

2. Growing Demand

- The annual treasury distribution and incentive programs support ecosystem participation and long-term utility.
- Adoption by companies and ecosystem participants may increase the utility and demand for APTESEG within the AppleTree ecosystem.

3. Sustainability

- The transparency and immutability of the blockchain ensure the system's credibility.
- Using the token to promote ESG practices contributes to its perceived value and long-term utility.

Participation in the program does not create entitlement to any specific allocation. Allocation criteria and program structure may evolve as the ecosystem develops.



AppleTree Roadmap



The AppleTree roadmap outlines the strategic development of the project, focusing on building a transparent blockchain ecosystem that promotes sustainability, responsible business practices, and ESG (Environmental, Social, and Governance) standards.

The roadmap is structured in phases that reflect the natural evolution of the project: from the initial technological foundation to ecosystem activation and long-term expansion.

Initial Roadmap – Foundation Phase 2025

The initial phase of the AppleTree project focused on building the technological and community foundations required to launch the ecosystem.

Key objectives of this phase included:

- **Smart Contract Development**

Development and deployment of the APTEG ERC-20 smart contract on the Arbitrum network, including the implementation of the project's core tokenomics.

- **Token Launch**

Official launch of the APTEG token and initial availability on decentralized trading platforms.

- **Liquidity and Incentive Mechanisms**

Implementation of ecosystem incentive mechanisms, including staking rewards and liquidity bonuses designed to encourage participation and support token stability.

- **Platform Infrastructure**

Development of the initial infrastructure required to support the AppleTree ESG ecosystem and its future certification framework.

- **Community Creation**

Establishment of the first AppleTree community through social media channels, project documentation, and early supporter engagement.

This phase laid the technological and community foundations necessary for the activation of the AppleTree ESG ecosystem.

AppleTree Roadmap 2026 – Ecosystem Activation



The 2026 roadmap focuses on activating the AppleTree ESG ecosystem, expanding the community, and strengthening the credibility of the project through partnerships, security improvements, and ecosystem growth.

The objective of this phase is to transition AppleTree from a foundational blockchain project into an operational sustainability ecosystem.

Q1 2026 - ESG Platform Launch

- Completion and release of the AppleTree ESG Dashboard
- Testing and validation of the ESG evaluation framework
- Internal testing of the certification system
- Preparation for onboarding the first pilot companies

Q2 2026 - Pilot Companies Program

- Launch of the AppleTree Pilot Program
- Onboarding of 5-10 pilot companies to test the ESG certification framework
- Free participation for early companies to evaluate and improve the model
- Collection of feedback to refine the ESG scoring methodology
- Initial ESG certifications issued through the AppleTree platform

Q3 2026 - Ecosystem Growth

- Expansion of the AppleTree community
- Increased participation in staking and liquidity incentive programs
- Community engagement through AMA sessions, online events, and educational content
- Development of strategic partnerships with sustainability-oriented organizations and companies

Q4 2026 - Market Expansion and Credibility

- Completion of a smart contract security audit
- Application for listings on major crypto data platforms such as CoinMarketCap and CoinGecko
- Expansion of marketing initiatives and brand awareness
- Continued growth of the AppleTree ecosystem and user base

End of 2026 - Legal Framework Preparation

- Initial evaluation of the legal structuring of the AppleTree project
- Exploration of regulatory frameworks for ESG certification activities
- Preparation for long-term partnerships with institutions and sustainability organizations

Long-Term Vision

- Beyond 2026, AppleTree aims to expand its ecosystem and strengthen its position as a blockchain-based infrastructure for ESG certification and sustainability incentives.
- Future development directions include:
- Expansion of ESG Certification
- Gradual onboarding of additional companies and organizations committed to sustainable practices.

Token Utility Expansion

- Increased use of the APTESG token within the ecosystem, including participation incentives, governance mechanisms, and sustainability rewards.

Transparency and Reporting

- Publication of periodic ecosystem reports to provide transparency regarding certified companies, project progress, and treasury activities.

Global Ecosystem Growth

- Expansion of the AppleTree community and ecosystem across multiple regions, promoting the adoption of transparent ESG standards through blockchain technology.
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AppleTree Marketing Strategy



AppleTree's marketing strategy focuses on increasing awareness, educating the public, and acquiring users to promote the adoption of the APTESEG token and ESG certifications. The strategy combines digital approaches, strategic partnerships, and community engagement to ensure a global and lasting impact.

Marketing Strategy Objectives

1. Increase Awareness:

- Establish AppleTree as an innovator in the ESG sector integrated with blockchain. Position the APTESEG token as a valuable resource for incentivizing sustainable practices.

2. Educate and Inform:

- Raise awareness among businesses and consumers about the importance of ESG standards.
- Explain how blockchain improves transparency and the effectiveness of ESG practices.

3. Acquire Users and Partners:

- Attract companies seeking to certify their ESG progress.
- Engage investors and liquidity providers to build a strong ecosystem.

Marketing Channels

AppleTree will use a combination of digital and offline channels to reach a diverse audience:

1. Digital Marketing:

- Social Media
- Content Marketing
- SEO and SEM

2. Community Engagement:

- AMA Events (Ask Me Anything)
- Referral Programs
- Discussion Groups

3. Strategic Collaborations:

- Partnerships with Companies
- Influencer Collaborations

4. Events and Conferences:

- Attend international blockchain and ESG conferences to promote AppleTree as a leader in the sector.
 - Host webinars and educational workshops to engage businesses and consumers.
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Security and Technologies Used in AppleTree

Security and technological innovation are the foundational pillars of AppleTree, designed to ensure a reliable, transparent, and scalable ecosystem. By integrating blockchain and leveraging cutting-edge technologies, AppleTree aims to provide a secure environment for both ESG-certified companies and individual participants.

Security: A Core Pillar

Security is central to AppleTree's development. With a blockchain-based ecosystem, the project adopts best practices and technical solutions to safeguard users and data.

1. Protection Against Attacks:

- **Reentrancy Protection:** The ReentrancyGuard module in the smart contracts blocks attempts to execute reentrancy attacks.
- **Access Restrictions:** The AccessControl framework ensures that only authorized users can perform critical actions, such as parameter modifications or fund management.

2. KYC (Know Your Customer): Investor Verification

- AppleTree integrates an advanced KYC functionality to verify the identity of investors, ensuring a safer and more compliant environment. This feature is designed to prevent fraudulent activities, promote transparency, and ensure that all participants meet the required standards.

Benefits of KYC:

- Prevention of money laundering and illicit activities.
- Increased trust among users and investors.
- Compliance with international legal and regulatory requirements.

3. Blockchain Immutability:

- All transactions and critical data are recorded on the blockchain, ensuring immutability and transparency. This eliminates the risk of unauthorized tampering.

4. Secure Fund Distribution:

- Funds, including treasury tokens and bonuses, are distributed through smart contracts, reducing the likelihood of human error or fraudulent activities.

Advantage: Transparent and verifiable fund distribution accessible to everyone.

5. Backup and Recovery:

- Critical data, such as access keys and certification information, are managed using secure backup practices and recovery mechanisms, minimizing risks of data loss.

Technologies Used

AppleTree leverages a range of innovative technologies to build a reliable and scalable ecosystem tailored to the needs of businesses and consumers.

1. Arbitrum Blockchain:

- The Arbitrum blockchain provides a secure and established infrastructure, with a robust developer community and support for complex smart contracts.

Key Features:

- Compatibility with ERC-20 standards for the APTESG token.
- Easy integration with decentralized tools and platforms like Uniswap.

2. Smart Contracts:

AppleTree smart contracts handle all core operations, including:

- Token distribution.
- Staking and bonus management.
- ESG certifications and annual incentives.

Technology:

- Written in Solidity, these contracts comply with Ethereum's security standards.

3. Decentralized Oracles:

- AppleTree integrates decentralized oracles (e.g., Chainlink) to connect external data to the blockchain, ensuring accurate and up-to-date information.

Use Cases:

- Calculating companies' ESG progress.
- Assessing market conditions for treasury fund distribution.

4. Web3 Platform:

- AppleTree provides an intuitive Web3 interface for users to interact with the system directly from their wallets (e.g., MetaMask).

Features:

- Viewing ESG certifications.
- Accessing staking and liquidity bonuses.
- Participating in governance.

Transaction Security

1. Transaction Protection:

Every transaction is verified using robust cryptographic mechanisms, ensuring only authorized parties can interact with the contracts.

2. Transparent Fees:

Transaction fees (e.g., transfer fees) are clearly specified and transparently distributed between the treasury and token burn mechanisms.

3. Complete Traceability:

All transactions are publicly traceable on the blockchain, providing a clear and verifiable overview of every operation.

Data Protection and Privacy

Despite blockchain immutability, AppleTree adopts measures to ensure user privacy:

1. Data Anonymization:

Personal data is never directly recorded on the blockchain. Only transaction IDs and necessary references are stored.

2. Compliance with Privacy Regulations:

AppleTree adheres to regulations such as GDPR, ensuring user data is protected and responsibly managed.

Innovation and Scalability

AppleTree is designed to grow with the market, thanks to a flexible architecture and innovative technologies:

Legal Aspects, Token Classification, and Regulatory Compliance



Legal compliance is a critical aspect for any blockchain project, and AppleTree is committed to adhering to the regulatory frameworks of the markets it operates in. However, it is important to note that, as of now, the APTESEG token has not been formally registered or approved by authorities such as MiCA (Markets in Crypto-Assets Regulation) in Europe or the SEC (Securities and Exchange Commission) in the United States. This section explores the legal implications and the steps being taken by the project to minimize regulatory risks. Any treasury distribution is discretionary and not guaranteed.

APTESEG Token Classification

The classification of a token is essential to determine its regulatory treatment. Based on the functionalities and uses of the APTESEG token, it may fall into one of the following categories:

1. Utility Token:

- Definition: A utility token is designed to provide access to a specific product or service within an ecosystem.

Application in APTESEG:

- The APTESEG token is used to access ESG certification services and to receive incentives through staking, liquidity, and rewards.
- It does not represent ownership or rights to future profits, typical characteristics of security tokens.

2. Security Token:

- Definition: A security token represents an investment in an asset and may be subject to stricter financial regulations.

Risk for APTESEG:

- If authorities interpret features of APTESEG (e.g., the annual distribution of 10% of the treasury) as guaranteed financial returns, the token could be classified as a security token. This classification would require registration with entities such as the SEC or relevant European authorities.

Legal Implications for the Issuer

Since the token is not currently registered with authorities like MiCA or the SEC, certain legal risks must be considered:

1. Local Regulations:

- In some countries, trading and distributing tokens without registration can be deemed illegal, with severe penalties for issuers.

Example:

In Europe, MiCA imposes clear regulations for crypto tokens. Non-compliance could result in fines of up to 10% of annual turnover or significant fixed penalties.

2. Risk of Misclassification:

- If a regulatory authority determines that APTEG is a security token, the project may be required to suspend operations until full registration is achieved.

3. Liability to Users:

- Without formal registration, users may lack adequate protection in cases of fraud or system malfunctions, increasing the risk of legal action.

Strategies to Minimize Regulatory Risks

AppleTree is taking several measures to mitigate legal risks and operate compliantly:

1. Non-Investment Disclaimers:

- The project explicitly states, in all official communications (whitepapers, website, social media), that APTEG is not an investment and does not guarantee financial returns. Example Disclaimer: "The APTEG token is intended to function as a utility token within the AppleTree ecosystem. It is not a security and should not be considered an investment opportunity."

2. Geographical Restrictions:

- To reduce exposure to restrictive regulations, the project may implement geographical blocks to prevent access from regions with stringent regulations (e.g., the United States and Europe).

3. User Education:

- AppleTree commits to educating users on the risks associated with unregulated tokens, providing clear and detailed guidelines.

4. Legal Partnerships:

- The project collaborates with legal experts to monitor regulatory changes and take proactive measures to ensure compliance.

Future Considerations: Registration and Compliance

Although the token is not currently registered, AppleTree is considering potential compliance with regulations such as MiCA and the SEC in the future. Key steps include:

1. Comprehensive Audit:

- Conducting a legal and technical audit to identify and address any issues that could hinder registration.

2. Gradual Registration:

- Initiating registration in jurisdictions with more favorable regulations (e.g., Malta or Singapore) to establish a replicable model.

3. Token Functionality Adjustments:

- Reducing or eliminating features that could classify APTEG as a security token, such as guaranteed revenue distributions.

4. Transparency and Reporting:

- Implementing monitoring and reporting systems to ensure all operations are transparent and compliant.

Opportunities in Unregulated Markets

In countries where crypto regulations are less restrictive, AppleTree can focus on token adoption without the immediate risk of legal actions. However, it is crucial to: Ensure users are aware of the risks associated with purchasing and using the token. Monitor regulatory changes in these markets to avoid future issues.

Team and Governance



AppleTree is driven by the passion and determination of a single founder, but it is built on an ambitious vision to involve the community through a decentralized governance system. This approach ensures that the project remains transparent, fair, and focused on sustainability and innovation.

The AppleTree Team

Currently, the AppleTree project is managed by one individual who oversees all aspects of development, from smart contract creation to growth strategy. The founder is deeply committed to the potential of blockchain and its positive impact on the ESG (Environmental, Social, Governance) sector.

Personal Motivation:

Despite being a solo endeavor, the founder is highly motivated to create an ecosystem that incentivizes sustainability and delivers value to participants.

Team Expansion

The project is actively seeking reliable collaborators with expertise in:

- Blockchain and smart contracts.
- Marketing and communication.
- Environmental sustainability and ESG standards.
- Market analysis and growth strategies.

The goal is to build a multidisciplinary team to accelerate project development and strengthen its global presence.

Current Governance and Future Vision

AppleTree is committed to ensuring a governance system that evolves alongside the project's growth. Currently, the founder makes all operational and strategic decisions, but the project aims to implement a decentralized governance model to include the community in decision-making processes.

1. Current Management:

All decisions regarding treasury management, incentives, and partnerships are made by the founder. This centralized approach ensures a clear initial vision and quick decision-making.

2. Planned Decentralized Governance:

As the project grows, AppleTree will transition to a decentralized governance system based on APTESG token ownership.

Planned Features:

Voting Weight: Each token represents a vote, granting more influence to those holding more tokens.

Community Proposals: Token holders can propose changes or initiatives, such as adjustments to tokenomics, treasury fund allocation, or new feature implementation.

Transparent Voting: Votes will be recorded on the blockchain to ensure transparency and immutability.

3. Implementation Roadmap:

Decentralized governance will be implemented through a smart contract upgrade. Specific functions, such as `propose()`, `vote()`, and automatic execution of approved decisions, will be introduced.

Conclusion



AppleTree represents an innovative fusion of blockchain technology and ESG (Environmental, Social, Governance) sustainability practices, aiming to create an ecosystem that incentivizes responsible and transparent behavior. With a model based on economic incentives and verifiable certifications, the project seeks to revolutionize how businesses and consumers contribute to the transition toward a more sustainable future.

From its early stages, AppleTree has stood out for its clear vision and commitment to innovation. The integration of blockchain technology overcomes traditional limitations of ESG systems, offering unprecedented traceability and immutability. At the same time, the introduction of incentives such as staking and liquidity bonuses, along with the annual distribution of treasury funds to certified companies, fosters a virtuous ecosystem where all participants benefit.

Initially driven by a single founder, the project has the ambition to evolve into a decentralized organization where the community plays a central role. The planned governance model, based on APTEG token ownership, ensures that the project's future will be collectively decided, adhering to principles of transparency and inclusivity.

Despite the legal and operational challenges inherent to the blockchain sector, AppleTree takes a pragmatic approach to minimize risks and build a compliant project. The project is open to the possibility of future registration with regulatory authorities, while maintaining the flexibility required to operate on a global scale.

With a solid roadmap, clear objectives, and a growing community, AppleTree is well-positioned to make a significant impact in the ESG sector and beyond. It is a project that not only aims to promote sustainability but also seeks to redefine the role of blockchain as a tool for social and economic change.

In conclusion, AppleTree is more than just a token or platform; it is a movement toward a future where innovation and responsibility go hand in hand. The project invites businesses, investors, and consumers to join this mission and become part of an ecosystem that rewards commitment to a better world.
