NRGE
New Resources Generation Energy

WHITE PAPER

v.1.0

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Content

Executive Summary

NRGE is the next-generation Real-World Asset (RWA) protocol that transforms Indonesia's emerging electric vehicle (EV) ecosystem into a globally accessible, yield-bearing digital asset class. By merging blockchain technology with physical EV infrastructure, NRGE enables fractional ownership of income-generating assets, specifically EV charging networks and electric vehicle fleets, two pillars of the clean mobility revolution.

As Indonesia positions itself as Southeast Asia's EV leader, demand for charging infrastructure and electrified transport has outpaced supply. Traditionally, participation in this sector has been restricted to large institutions due to high capital requirements and operational complexity. $NRGE breaks this barrier by tokenizing real assets and distributing their economic value directly to token holders through transparent, automated smart contracts.

$NRGE emerges as a solution built specifically for this landscape, an integrated Real-World Asset (RWA) tokenization protocol designed to unlock capital, accelerate infrastructure deployment, and democratize access to high quality EV income generating assets.

Through $NRGE, physical EV assets such as charging stations and operational fleets are fractionalized into RWA tokens backed by verifiable real-world performance. Token holders earn proportional revenue from two fast-growing markets. EV Charging Infrastructure Income generated from charging sessions, idle-time fees, smart-meter revenue, carbon credits, and commercial partnerships and Electric Fleet Operations
Revenue produced by delivery fleets, logistics vehicles, ride-hailing EV motorcycles, and corporate mobility units.

The NRGE Utility Token serves as the economic foundation of the ecosystem, enabling governance, staking rewards, on-chain participation in asset launches, and reduced protocol fees. As more charging points and fleet units come online, NRGE grows into a decentralized infrastructure network that reflects the real demand and real yield of Indonesia's accelerating EV economy. In essence, $NRGE activates the full potential of Indonesia's EV revolution, connecting real assets, real revenue, and real investors into one unified digital ecosystem. It represents a transformative step toward a cleaner, more efficient, and economically accessible future for all.

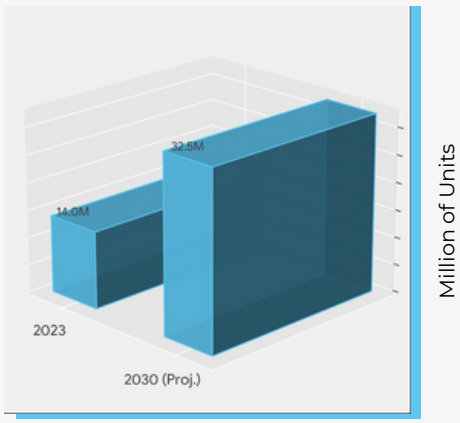
Industry Overview

The global transition toward electric mobility is accelerating faster than at any point in history. According to the **International Energy Agency (IEA),** more than **14 million EVs were sold in 2023**, representing over **35% year-on-year growth**, and global EV sales are projected to reach **30–35 million units by 2030.** Governments worldwide are committing to net-zero targets, phasing out combustion engines, and incentivizing clean transportation creating unprecedented market momentum.

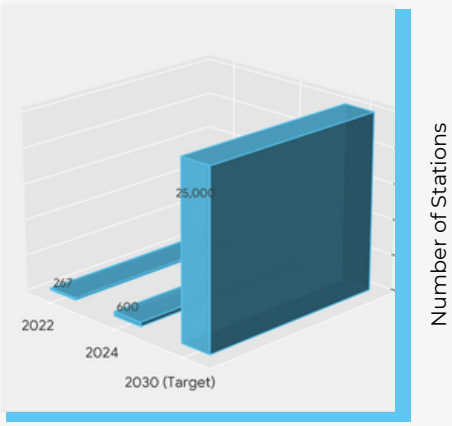
Indonesia, one of the largest mobility markets in Southeast Asia, is beginning to experience a significant shift toward electric vehicles. EV adoption grew by more than **two times between 2022 and 2023**, driven by rising fuel costs, government subsidies, and expanding availability of EV models. Major ride-hailing platforms such as **Gojek** and **Grab** have incorporated electric motorcycles and cars into their fleets, enabling thousands of drivers to access EVs through rental and pay-per-use models.

Infrastructure development continues to scale. The number of public EV charging stations in Indonesia has grown significantly, increasing from **267 units in 2022 to over 600 stations by 2024**, with government plans targeting more than 25,000 stations by 2030. Battery-swap networks for electric motorcycles are expanding rapidly, forming a new ecosystem that supports micro-mobility, logistics fleets, and last-mile delivery operations.

Global EV Sales



Indonesia Public Charging Station



The Problem

The transition toward electric mobility is accelerating globally, yet the supporting financial, technological, and infrastructure systems remain far behind — especially in emerging markets. Although governments, businesses, and consumers are increasingly shifting toward electric vehicles (EVs), several fundamental barriers continue to limit mass adoption and large-scale ecosystem growth.

Despite the potential for lower operational costs and environmental benefits, EV adoption in Indonesia remains constrained by access, financing bottlenecks, and the absence of transparent mechanisms that allow individuals or investors to participate in the clean-energy economy. As a result, the market struggles to reach its full potential.

Common Problem	Description
High Cost of EV Ownership	The upfront cost of electric vehicles remains significantly higher than gasoline-based alternatives. For many users—especially ride-hailing drivers and small operators—the financial barrier is too high, restricting adoption.
Fragmented EV Financing	Financing options for EVs are inconsistent and limited. Banks, rental fleets, and private lenders each use different risk models, leading to slow approvals, higher interest rates, and restricted access to EV ownership programs.
Insufficient Charging Infrastructure Funding	Charging and battery-swap stations require a large amount of capital to build, yet infrastructure providers struggle to secure financing due to limited transparency in asset performance and long payback periods.
No EV Tokenization Platform in Indonesia	There is currently no standardized on-chain system to tokenize EVs or charging assets. This limits alternative funding sources, slows ecosystem growth, and prevents global investors from participating.
EV Owners Cannot Monetize Assets	Fleet operators, rental businesses, and charging station owners cannot fractionalize or tokenize their assets, resulting in untapped economic potential and limited liquidity.

Common Problem	Description
Lack of Transparency & Asset Traceability	EV performance data, battery health, utilization rates, and revenue flows are often maintained off-chain, making them difficult to verify. This increases risk for investors and limits trust between stakeholders.
Slow Infrastructure Deployment	Lack of transparent financing slows down the expansion of charging networks, hindering broader national EV adoption.
Regulatory Uncertainty	There is currently no standardized on-chain system to tokenize EVs or charging assets. This limits alternative funding sources, slows ecosystem growth, and prevents global investors from participating.
Limited Market Accessibility for Retail Investors	Retail participants have no pathway to fractional ownership of EV or charging assets, limiting democratized access to high-utility real-world investments.

These challenges highlight the urgent need for a transparent, secure, and scalable system that bridges the gap between the EV industry and modern financing technologies. Without a unified platform that verifies, tokenizes, and unlocks asset value, the electric mobility ecosystem risks stagnation despite strong demand and supportive regulatory momentum.

NRGE is designed to fill this gap — bringing clarity, accessibility, and trust to the EV and clean-energy ecosystem through blockchain-powered Real World Assets (RWA)

These structural inefficiencies not only limit consumer adoption but also restrict operators, lenders, and infrastructure developers from scaling efficiently. Capital that should be driving EV deployment remains locked behind legacy systems, while promising assets fail to reach their full economic potential. By introducing a standardized framework for asset verification, revenue tracking, and decentralized participation, NRGE enables the EV ecosystem to evolve beyond traditional bottlenecks and move toward a more inclusive, data-driven, and sustainable model.

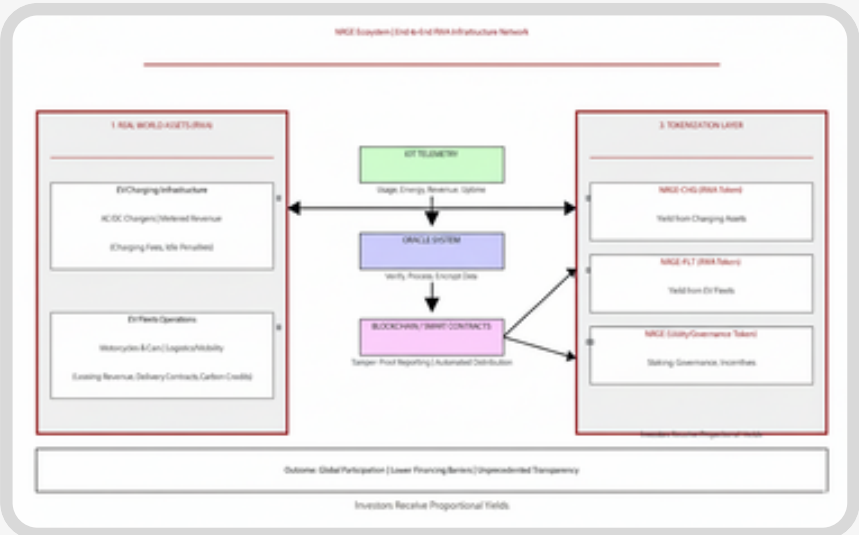
The Solution

The NRGE Ecosystem is designed to transform Indonesia's rapidly growing electric mobility sector into an accessible and transparent digital asset class. Its foundation is built on two MVP pillars: EV Charging Infrastructure and EV Fleet Operations, both of which generate measurable, recurring, and verifiable real-world revenue.

The first pillar, Charging Infrastructure, focuses on deploying AC and DC charging stations across high-demand urban and commercial areas. Each station is equipped with IoT-based metering systems that record energy consumption, session duration, and revenue per kWh in real time. These data points flow directly into NRGE's on-chain architecture, enabling precise revenue verification and transparent yield distribution to token holders.

The second pillar, EV Fleet Operations, covers the deployment of electric motorcycles and electric cars used for logistics, delivery, and enterprise mobility services. Every fleet unit is tracked using telematics that monitor distance, utilization rate, battery health, and operational income. This ensures that performance data such as leasing fees, delivery earnings, and carbon credit generation can be reliably transferred on-chain.

Together, these two pillars form an integrated RWA ecosystem where physical EV assets generate real verifiable income, IoT systems ensure data integrity, and NRGE's smart contracts automate revenue distribution. This structure allows global users to participate in the economic value of Indonesia's EV expansion while providing a capital-efficient model for scaling national EV infrastructure.



The Solution

Asset-Light Funding Model

NRGE introduces an innovative asset-light financing structure, allowing capital to flow more efficiently into the EV ecosystem without requiring heavy upfront ownership.

How the model works:

- EV assets are verified and registered off-chain
- NRGE tokenizes the asset into blockchain-secured representations
- Token holders may gain access to asset-linked opportunities
- Operators receive capital to expand EV fleets, charging points, and infrastructure
- Asset performance is monitored and recorded for full transparency

This system allows:

- Faster deployment of EV units
- Lower barriers for operators
- More participation from global crypto holders
- Scalable energy and transport infrastructure growth

Bridging Web3 and Renewable Energy

NRGE serves as the connective layer between the decentralized digital economy and real-world clean-energy assets.

By integrating tokenized structures with measurable energy output and asset lifecycle data, NRGE provides a foundation for:

- Energy credit tokenization
- Carbon reduction traceability
- Transparent operational insight
- Collaborative growth with renewable partners

This creates a sustainable ecosystem where digital value corresponds directly to real economic impact.

Technology Stack

Blockchain Infrastructure Layer

Binance Smart Chain (BSC) — Base Layer (L1)
NRGE is deployed on the Binance Smart Chain, one of the most widely adopted and energy-efficient blockchains in the industry.
Key advantages of BSC for NRGE:

- High throughput and low transaction costs
- EVM-compatible, enabling seamless smart-contract development
- Large ecosystem of tools, wallets, and integrations
- Strong network stability and reliable block finality

This foundation ensures NRGE assets remain accessible, inexpensive to interact with, & compatible with Web3 infrastructure and exchanges.

Smart Contract Architecture

NRGE utilizes a modular smart-contract architecture that includes:
ERC-20 Token Contract, the base NRGE token follows the ERC-20 standard on BSC (BEP-20), ensuring compatibility with:

- CEX / DEX
- Wallets (MetaMask, TrustWallet, etc.)
- Staking / treasury systems (future phase)

RWA Tokenization Structure, a dedicated RWA framework is designed to represent real EV assets through:

- Asset registration modules
- Asset metadata storage (off-chain + hashed on-chain)
- Ownership mapping
- Verification checkpoints
- Token issuance logic linked to real assets

Although the initial launch focuses on the NRGE token, this architecture allows smooth integration of future phases such as:

- EV-backed RWA tokens
- Charging-asset tokens

Technology Stack

CertiK Smart Contract Audit

Security is a fundamental component of the NRGE ecosystem. To ensure that the token contract meets industry-standard best practices and is free from critical vulnerabilities, NRGE has engaged CertiK, one of the most reputable and widely recognized blockchain security firms in the global Web3 ecosystem.

The purpose of this audit is to provide transparency, build user confidence, and validate that the NRGE smart contract is designed with a secure foundation before public launch and exchange listing. CertiK's auditing process applies both automated and manual review methods to identify weaknesses, evaluate performance, and assess overall contract integrity.

Ecosystem Model

EV Asset Pool (Planned Model)

The EV Asset Pool is a future component of the NRGE ecosystem that will consolidate verified electric vehicles into a single, trackable asset group. While this pool has not yet been deployed, the foundation is being prepared for integration after early-stage milestones such as:

- Token deployment
- Smart contract audits
- CEX listing and liquidity formation
- Partnership negotiation

Scope (Planned for Phase 2)

- Ride-hailing EV
- Logistics EV
- Battery swap vehicles
- Rental fleet EV

This model provides a clear future direction without claiming current operational assets.

Charging Infrastructure Pool (Planned Model)

NRGE aims to incorporate charging and battery-swapping infrastructure into its ecosystem in later phases. This pool does not exist yet, but the feasibility framework has been drafted.

Future integration may include:

- Public and semi-public EV charging stations
- Battery swap infrastructure
- Energy output tracking systems
- Renewable-powered charging hubs

This prepares the project for future clean-energy RWA adoption once operational partners are onboard.

Partnership Integration Model (Concept Stage)

At this stage, NRGE is initiating discussions with potential partners and preparing the compliance structure required for future EV and energy collaboration.
The integration model is designed to support:

- EV manufacturers
- Fleet operators
- Charging network providers
- Clean-energy developers

This allows NRGE to present a clear long-term operational map without misrepresenting current progress.

The ecosystem is intentionally designed to support future real-world integrations such as rental EV fleets, ride-hailing EV units, logistics vehicles, charging networks, and energy-credit tokenization. These potential use cases remain within the proposal and planning stage, and will only move forward once the project reaches operational readiness, completes regulatory alignment, and secures the required commercial partnerships.

Business Model

Stage	Description
Early-Stage Model (Current Phase)	Primary objective: build liquidity, market presence, and community foundation. Revenue & value drivers at this stage include: • Token utility adoption inside the ecosystem (governance, access). • Exchange listing growth, enabling deeper liquidity and market participation. • Partnership onboarding, including EV distributors, energy providers, and finance partners. • Brand and community expansion, enabling long-term adoption of future RWA integrations. This phase is essential to establish the foundation for NRGE before real-world assets can be added.
Mid-Stage Model (RWA Integration Phase – Future)	Once regulatory and operational requirements are met, NRGE is designed to support revenue pathways connected to real-world EV and energy assets. A. EV Asset Yield Participation (Future Capability) Token holders may gain access to yield derived from operational EV fleets (rental, ride-hailing, logistics) through structured RWA products once fully compliant. B. Charging Network Revenue (Future Capability) Ecosystem partners operating charging stations may contribute a percentage of network revenue into the NRGE ecosystem via smart-contract-based models. C. Transaction-Based Fees Future services — such as EV registry updates, asset verification, or RWA token operations — may incur micro-fees processed on-chain. D. Partnership and Integration Fees Collaborations with EV suppliers, fleet operators, and energy providers may include onboarding fees, service fees, or integration payments.
Long-Term Business Model (Full Ecosystem)	In the mature phase, NRGE aims to function as a comprehensive clean-energy RWA hub, combining Web3 infrastructure with EV and energy assets. At scale, the model may include: • Cross-border RWA financing models • Carbon credit & energy credit integrations • Multi-asset pool tokenization (vehicles, batteries, charging equipment) • Institutional RWA products for fintechs or energy developers • Decentralized infrastructure model where partners integrate directly via the NRGE protocol

Tokenomics

The NRGE token is designed with a structured, transparent, and long-term-oriented allocation model. Although the ecosystem has not yet activated real-world asset integrations or revenue-generating mechanisms, the token supply and distribution framework ensure readiness for future expansion while maintaining fairness and sustainability.

10.1 Token Overview

Token name: New Resources Generation Energy

Token symbol: NRGE

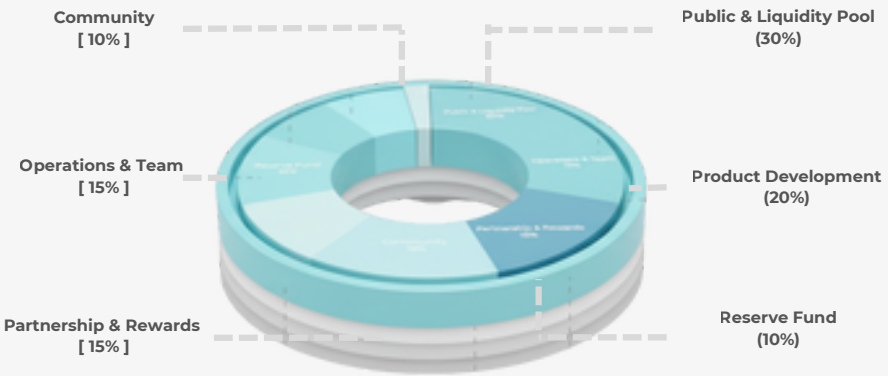
Network: Binance Smart Chain (BSC)

Token Standard: BEP-20

Total Supply: 1,000,000 NRGE

Smart Contract: 0xeF456f6fd7379BdE05108164e90134621D68d0e0

10.2 Token Allocation Breakdown



NRGE token distribution is structured to balance ecosystem expansion, operational sustainability, and future integrations with real-world assets.

Utility of NRGE Token

NRGE does not yet power any live real-world or on-chain functions. Since the project is still in the early listing and ecosystem-building phase, all utilities described below represent future planned utilities that may activate only after operational readiness, partner integrations, and regulatory compliance are achieved.

The following utilities are intentionally structured to remain flexible, non-binding, and adaptable to NRGE's long-term ecosystem expansion.

1. Ecosystem Access (Future Feature Access)
NRGE is planned to function as an access key for future ecosystem such as:
- EV pilot programs
- Platform dashboards
- Early-access features
- Data-insights or energy-analytics modules (if developed)

This creates a utility centered around participation rather than financial return.

2. Partner Access & Benefits (Pending Partnerships)
As NRGE secures collaborations with EV, energy, or charging partners, the token may serve as a user credential for: member benefits, partner integrations, exclusive access to limited programs or trials. Utility will depend entirely on the outcome of future partnerships.

3. Ecosystem Identity & Reputation Layer
NRGE may function as a reputation or membership layer within the ecosystem—allowing token holders to represent early supporters or verified participants as the project grows. This utility focuses on community identity, not financial incentives.

4. Access to RWA Features (Conditional on Compliance)
If and only if NRGE later advances into real-world asset integrations, the token may be used to: access verified RWA dashboards, view asset performance data, participate in non-financial ecosystem actions (e.g., energy reporting, EV usage tracking). This utility is strictly informational unless regulations permit broader functions.

Roadmap

NRGE follows a phased development roadmap designed to prioritize regulatory safety, exchange readiness, and ecosystem preparation before enabling any real-world integrations. The roadmap avoids premature claims and focuses on achievable milestones in sequential order.

Q3 2025

Phase 0 — Foundation Setup
Current Stage

- Token smart contract development (BSC)
- CertiK security audit initiation
- Branding, identity, and ecosystem framework
- Launch of official website & documentation
- Early community building & social channels
- CEX listing preparation & submission

Q4 2025

Phase 1 — Market Entry & Infrastructure
Exchange & Ecosystem Readiness

- First CEX listing
- Liquidity provisioning & market-making setup
- Publication of ongoing technical reports
- Expansion of social presence & community onboarding

Q1 2026

Phase 2 — Ecosystem Activation
Initial Integrations — Non-RWA

- Partner outreach for EV, charging, and energy sectors
- Feasibility study for EV-based RWA pilot
- Internal testing of asset verification framework
- Preparation of compliance requirements
- Community-based ecosystem program trials

Roadmap

Q2 2026

Phase 3 Pilot RWA Development (Q3 2026)
Conditional on Partnerships & Compliance

- Small-scale EV asset pilot (1–5 units, depending on region & partner)
- Off-chain registry & ownership-validation model
- Early partner testing for charging/energy integrations
- Expansion of technical infrastructure

Q3 2026

Phase 4 Scaling Strategy (Q4 2026)
Ecosystem Growth & Exchange Expansion

- Additional CEX listing (regional or global)
- Scaling of partner network
- RWA asset framework enhancement
- Implementation of early ecosystem utilities (non-financial)
- Community transparency system upgrade

Q1 2027

Phase 5 Long-Term Vision (2027 & Beyond)
Full EV & Clean-Energy RWA Ecosystem

- Scaled EV asset pools
- Charging infrastructure integration
- Formalized partner network in mobility & clean energy
- Exploration of institutional partnerships
- Mature NRGE ecosystem with real operational utilities

All timelines and phases are subject to adjustment based on regulatory guidance, audit processes, exchange partners, and third-party readiness. NRGE prioritizes safety, compliance, and sustainable growth over accelerated but risky deployment.

Risk Disclosure

The NRGE project is currently in an early development phase, and participation in any digital asset ecosystem carries inherent risks. While NRGE is committed to maintaining transparency, responsible development practices, and compliance alignment, participants should carefully consider the following risks before engaging with the project or its token.

1. Market Risk
The value of digital assets may fluctuate significantly due to market volatility, liquidity limitations, macroeconomic shifts, or general sentiment toward the cryptocurrency sector. NRGE has no control over market conditions and cannot guarantee price stability or appreciation.

2. Regulatory & Compliance Risk
Blockchain, digital assets, and real-world asset tokenization are subject to evolving regulations across different jurisdictions. Regulatory changes, new compliance requirements, or restrictions on RWA models may impact NRGE's ability to implement certain ecosystem features or future utilities.

3. Technological Risk
Smart contracts and blockchain systems may contain vulnerabilities, experience downtime, or be subject to attacks. Although NRGE plans to undergo third-party audits, no audit can guarantee absolute security. Integration with external platforms (CEXs, partners, oracles) may also introduce additional risks.

4. Operational Risk
Future ecosystem development—including EV partnerships, infrastructure integrations, and potential RWA pilots—depends on third-party partners, suppliers, legal frameworks, and regulatory approvals. Delays, failures, or lack of suitable partners may impact roadmap progress.

5. Liquidity & Trading Risk
Exchange listings, liquidity depth, market-maker participation, and trading volume are influenced by external factors. There is no guarantee that liquidity will remain sufficient for trading without significant slippage or interruptions.

6. RWA-Related Risk (Future Phases)
If NRGE moves forward with real-world asset integrations, risks may arise from asset maintenance, operational performance, depreciation, partner reliability, and data accuracy. These risks apply only to future phases and do not affect the current stage of the project.

All participants should conduct their own independent evaluation of NRGE, seek professional advice where necessary, and fully understand that the project is at an early stage. Nothing in this document constitutes a guarantee, promise, or financial commitment. NRGE will continue to prioritize responsible growth, transparency, and compliance as the ecosystem develops.

Conclusion

NRGE represents the foundation of a forward-looking initiative built at the intersection of clean energy, electric mobility, and emerging blockchain infrastructure. While the project is still in its early development phase, the framework established through this whitepaper reflects a long-term commitment to responsible growth, transparent communication, and compliance-aware ecosystem design.

By prioritizing secure technology, structured tokenomics, third-party auditing, and a scalable architecture, NRGE positions itself to evolve in alignment with industry trends and regulatory standards. The vision for integrating EV and clean-energy–related real-world assets remains a future objective—one that will only be pursued once partnerships, infrastructure readiness, and legal requirements are fully met.

As NRGE progresses through exchange listings, ecosystem formation, and the gradual introduction of platform features, the project aims to build a strong community foundation while laying the groundwork for meaningful real-world applications. NRGE's long-term aspiration is to contribute to a more accessible, transparent, and sustainable energy landscape through carefully designed digital-asset infrastructure.

The journey ahead is ambitious, but NRGE moves forward with clarity, discipline, and a commitment to building value step by step. This whitepaper marks the beginning of that journey—and an invitation to follow the project's growth as it continues to evolve.