

WHITEPAPER



PKRD

Sustainable & Secure

Abstract

The last decade has innovated to shape our global trade and finance through multiple types of digital assets in which digital assets pegged or backed by fiat currency are highly interesting for stability and security. These stable digital assets backed by fiat currency provides individuals, corporates and organizations with a Strong and healthy decentralized method of exchanging value while using each coin as accounting unit. The accounting method is based on innovation of blockchains and cryptographic codes being auditable with secured global ledger. The traders and asset backed token issuers can transact with less volatility through blockchain technology with stable exchange prices and maintenance of accounts.

PKRD stable coin cryptocurrency is the first green coin to maintain one to one reserved ratio between cryptocurrency coin and related real-world asset, fiat currencies. The blockchain, proof of reserves and audit methods witness that issued PKRD coins are fully backed and are reserved at all times. PKRD platform represents the pioneering introduction of green stable coins within the cryptocurrency landscape. Launched in 2024, PKRD's unique value proposition bridges fiat currencies with the digital asset realm, facilitating stable and seamless transactions. Built on a Proof of Authority (PoA) Ethereum Virtual Machine (EVM) compatible blockchain, PKRD ensures robust integration and adoption across diverse platforms. Its six-dimensional vision encompasses future financial investment, growth,

green environment, sustainable energy, stable currency, and economic diplomacy. PKRD coins are pegged 1-to-1 with fiat currencies and are backed by 100% reserves, providing unparalleled stability and liquidity. The platform is designed to adhere to stringent regulatory standards, ensuring compliance with global anti-money laundering (AML) and know-your-customer (KYC) regulations. With full transparency, competitive fees, and 24/7 customer support, PKRD offers a reliable and efficient solution for individuals, traders, merchants, and governments. This whitepaper delves into the multifaceted benefits of PKRD coins, highlighting their innovative role in the global financial ecosystem and their potential to drive sustainable economic growth.

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1.INTRODUCTION

The PKRD platform is the pioneer of the first-ever green stable coins, offering innovative features that cater to individuals, traders, merchants, and governments. Launched in 2024, PKRD coins bridge fiat currencies with the crypto world, enabling stable and straightforward transactions through blockchain technology. The platform represents a six-dimensional vision of future financial investment, growth, green environment, sustainable energy, stable currency, and economic diplomacy. PKRD coins are designed to offer stability and liquidity, making them a trusted choice for both private and business use.

2. Background

2.1 PKRD fighting against Major Global Challenges

With the intensification of globalization dynamics, risks to the economic financial stability of the international system have grown to the extent that formerly localized threats are no longer locally containable. Ethnic conflicts, infectious diseases, wars, climate change, pollution, food and energy insecurity, inflation, and other pressing threats, are increasingly threatening global economic financial security and stability, prompting doubts about the ability of the current global governance order to respond to the challenges plaguing the 21st century.

Following these global concerns, PKRD stable coin is established to conclude a rational response and preparedness plan to counter some of the global challenges like environment protection and climate change therein PKRD crypto platform is able to contribute fully as front-line model for others to follow up while holding sustainable growth and return to our investors.

PKRD crypto ecosystem is dedicated to facilitate the awareness for global environmental and go green project for true operational quality. how to foster the development of renewable energy communities and other smaller actors, improve the resilience of the clean energy system and strengthen the existing security of supply provisions, contribute to tackling high energy prices,

reduction or removal of greenhouse gases, including renewable energy and energy efficiency, support to clean mobility, the acquisition of clean vehicles and retrofitting of vehicles, as well as for the deployment of recharging and refueling infrastructure, increase the level of resource efficiency of companies for protection and restoration of biodiversity and the rehabilitation of natural ecosystems and the implementation of nature-based solutions etc.

PKRD stable coin supports and campaign for GO Green knowledge-based project with tactical and strategic phases for quality operational value, mitigating the financial and political risks, optimizing the process of productivity and profitability based on advanced

crypto technology and material sciences through dynamic process model to achieve green and clean energy, fuel and environment. Five percent of our profitability is direct contribution to awareness of GO Green Projects.

These awareness campaigns backed by PKRD ecosystem are meant to broaden the categories of investments and technologies that can support to cover new areas of clean mobility, infrastructure, resource efficiency, biodiversity and all technologies that can deliver the Green Deals for renewable, solar wind and hydro energy, hydrogen, electricity storage and demand response, decarbonizing production processes.

This will also include recycling, reduction of toxic, hazardous materials and carbon footprint, Conversion of existing private, institutions, corporate and state Diesel/Petrol vehicles to EV, All fuel stations to run on solar energy, Agriculture Diesel replacement with solar and alternative energy and fuel resources.

2.2 Our purpose

To protect, improve and restore our Green environment through ease of financial capital, transactions and contributions in an honest and transparent crypto ecosystem therein diversity emerge for prosperity and “Green Planet Again” for our next generations. Developing PKRD advanced crypto ecosystem series to establish awareness and support innovation through knowledge-based methods for Go Green out of box solutions.

2.3 Our vision

We live with advanced, sustainable financial supply and trading with cheaper instant transactions in a healthy and intelligent environment that is valued and protected by all to fund Go Green Global Projects, Green life and food style.

Additionally, we establish a central role of PKRD project for international trade, investment as a systematic and scientific approach for private and corporate identities. Therefore, PKRD project is and will be progressive project to play an important role to bridge east and west for global prosperity at totalization.

3.Features

3.1 Multiple Blockchain Facility

PKRD coins are built on an Ethereum Virtual Machine (EVM) compatible blockchain, providing seamless integration and adoption. This compatibility ensures that PKRD coins can be used across various platforms and applications, enhancing their utility and accessibility.

3.2 Unparalleled Liquidity

PKRD coins offer multidirectional liquidity, making them one of the most attractive coins for trading. This liquidity ensures that users can easily buy and sell PKRD coins on various exchanges, providing flexibility and ease of use.

3.3 PKRD Backed by 100% Reserves

PKRD coins are pegged 1-to-1 with a matching fiat currency (e.g., 1 PKRD = 1 USD) and are fully backed by PKRD reserves. This pegging mechanism ensures that the value of PKRD coins remains stable, providing a reliable digital currency option.

3.4 Full Transparency

PKRD ensures full transparency by regularly publishing the details of both issued PKRD coins and reserve assets. This practice allows the public to verify the backing of PKRD coins, fostering trust and confidence in the platform.

3.5 Regulatory-Compliance Fitness

Green Compass Holding s.r.o., the entity behind PKRD, adheres to global standardized compliance measures for anti-money laundering (AML), countering the financing of terrorism (CFT), and sanctions. The platform also follows know-your-customer (KYC) laws and regulations, ensuring a secure and compliant environment for users.

4. PKRD for Individuals

4.1 Exceptional Liquidity

PKRD coins offer exceptional liquidity on exchanges, allowing traders to capitalize on opportunities quickly. This liquidity ensures that users can perform transactions efficiently, taking advantage of market movements in real-time.

4.2 Reduced Volatility

PKRD coins mitigate the risks typically associated with cryptocurrencies by providing a stable and secure digital currency. This stability makes PKRD an attractive option for individuals looking to invest in the crypto space without the volatility.

4.3 Multiple Fiat Currency Options

PKRD coins are available in multiple fiat currencies, including USD, Euro, Chinese RMB, UAE AED, Indian INR, Pak Rupee, and British Pound. This variety accommodates users' needs and makes PKRD coins accessible to a global audience.

4.4 Competitive Fees

PKRD offers highly competitive fees, allowing users to move both small and large amounts at a low cost. This affordability makes PKRD an attractive option for individuals and businesses alike.

5. PKRD for Merchants

5.1 Multi Directional Integration

PKRD supports merchants and consumer sales cycles by providing a stable and liquid means of digital payment. This support enables merchants to confidently accept PKRD coins for products and services, enhancing their business operations.

5.2 Increased Payment Options

PKRD coins provide merchants with more options for real-time purchases, integrating advanced features to facilitate transactions. This integration helps merchants tap into the billion-dollar crypto market, attracting new customers and expanding their business.

5.3 Stability Against Market Volatility

PKRD coins offer stability in highly volatile markets, making them a secure asset for traders and corporate investors. This stability reduces the risk of price fluctuations during times of market consolidation and volatility.

5.4 User-Friendly Integration

PKRD provides comprehensive guidelines and support for integrating PKRD API into merchants' systems. This user-friendly approach ensures that merchants can easily adopt PKRD coins and expand their market reach.

5.5 Innovative Design

PKRD coins are strategically designed to support blockchain protocols through EVM compatibility, ensuring compliance and functionality. This design enhances the coins' utility and makes them an attractive option for merchants.

6. PKRD for Exchanges

6.1 Strategic Use and Demand

PKRD coins play a vital role in the crypto ecosystem, being actively traded on famous exchanges due to their availability in major currencies. This demand ensures that PKRD coins remain a popular choice for traders.

6.2 Large-Scale Liquidity

PKRD coins offer large-scale liquidity, enabling traders to perform trades efficiently across various exchanges. This liquidity makes PKRD an attractive option for exchanges and OTC desks, facilitating smooth and fast transactions.

6.3 Easy Integration and Adaptation

PKRD's advanced technology, built on EVM-compatible blockchain, ensures easy integration and adaptation with fast transactions and lower fees. This compatibility provides a smart alternative to fiat gateways, making PKRD an essential part of the crypto ecosystem.

7.PKRD for Governments

7.1 Strategic Global Spread

PKRD coins, with their strategic global spread, can play a vital role in sustainable project developments and the broader crypto ecosystem. This global presence ensures that PKRD coins are a reliable and attractive option for governments.

7.2 Innovative Financial Models

PKRD offers innovative financial models to support government initiatives, such as raising funds during economic challenges, countering inflation, and addressing high energy prices. These models provide governments with intelligent solutions for managing their finances.

7.3 Green World Vision

PKRD is committed to a green world vision, supporting pollution-free industries and green initiatives through the Go Green Scheme. This commitment ensures that PKRD contributes to sustainable development and environmental protection.

7.4 Sovereign Wealth Fund Integration

PKRD can operationalize intelligent financial strategies to support sovereign wealth and pension funds, offering non-traditional best practices for governments. This integration ensures that PKRD plays a crucial role in national financial planning and investment.

8.PKRD for Independent Power

Producers (IPPs)

8.1 Support for Global IPPs

The PKRD IPP scheme, launched in August 2024, aims to provide access to finance for global IPPs investing in new technologies for cost-effective production. This support ensures that IPPs can continue to innovate and reduce production costs.

8.2 Improved Terms and Contracts

PKRD aims to improve the terms of existing IPP contracts with governments and negotiate new Power Production Agreements (PPAs) with better funding and energy cost terms. This improvement ensures that IPPs can operate more efficiently and transparently.

8.3 Integration of Finance and Technology

The PKRD IPP scheme integrates finance and advanced technologies, reducing costs and returning profits to the public and investors. This integration supports the development of green and clean energy projects, contributing to environmental sustainability.

8.4 Transparency and Public Trust

PKRD ensures transparency in the integration of finance and technology, fostering public trust and innovative social welfare. This transparency helps address concerns about the cost and inflexibility of traditional IPPs, promoting a fair and efficient energy sector.

9. Technical Architecture:

9.1 Network Structure and Nodes:

The backbone of any blockchain is its network architecture, which is a complex web of interconnected nodes that collaborate to uphold the integrity and functionality of the entire system. In the context of PKRD Blockchain based on the Clique Proof of Authority (PoA) consensus, the network structure and nodes play pivotal roles in achieving the network's objectives.

In this architecture, there are two primary types of nodes: full nodes and validator nodes. Full nodes are responsible for storing the complete blockchain history and validating transactions, ensuring that all network participants adhere to the consensus rules. These nodes contribute to the decentralization and security of the network, allowing anyone to independently verify transactions and maintain a copy of the blockchain's history.

Validator nodes, on the other hand, hold a special responsibility in the PoA consensus mechanism. These nodes are entrusted with the task of validating transactions and proposing new blocks. Unlike the energy-intensive PoW mechanism, where miners solve complex mathematical puzzles to add blocks, PoA relies on the identity and reputation of validators. Validators are selected based on their real-world identities, which drastically reduces the risk of malicious actors compromising the network. This consensus mechanism is not only efficient but also environmentally friendly, as it doesn't require the energy consumption associated with traditional PoW.

9.2 Smart Contracts and DApps:

Smart contracts represent the heart of decentralized applications (DApps), enabling automated and trustless execution of predefined actions. These contracts are written in programming languages such as Solidity and compiled into bytecode that can be executed on the blockchain's virtual machine. Once deployed, smart contracts become immutable and tamper-resistant, providing a secure foundation for a wide array of applications, from financial protocols to supply chain management systems.

DApps, which leverage these smart contracts, interact with the blockchain through transactions that trigger the execution of specific contract functions. These interactions are recorded on the blockchain and verified by the nodes. This transparent and auditable process fosters a high degree of transparency and accountability in DApp operations.

9.3 Interoperability with EVM:

One of the defining features of our blockchain is its seamless interoperability with the Ethereum Virtual Machine (EVM). This compatibility opens up a world of possibilities for developers and users alike. The EVM is a runtime environment that executes smart contracts on the Ethereum network, and our blockchain's compatibility with it means that developers can port their existing Ethereum smart contracts to our network with minimal modifications.

This interoperability is achieved through the implementation of the EVM on our blockchain, allowing it to execute the same bytecode and produce the same results as the Ethereum network. This cross-compatibility significantly reduces the barrier for developers looking to transition their applications or deploy new ones on our blockchain. It also expands the potential user base, as those familiar with Ethereum's ecosystem can easily transition to ours.

By offering a bridge between our blockchain and the Ethereum network, we empower developers to tap into the strengths of both ecosystems. This can lead to collaborative efforts, asset transfers, and cross-chain applications that leverage the best of both worlds. The interoperability with EVM is a testament to our blockchain's commitment to staying connected, adaptable, and future-proof in an ever-evolving blockchain landscape.

As we delve deeper into the technical intricacies of PKRD Blockchain, subsequent sections will explore consensus mechanisms, security measures, token standards, and governance protocols. Together, these elements form a cohesive foundation that supports the objectives outlined in the introduction, driving us closer to realizing a more efficient, scalable, and secure blockchain future.

10.Consensus Mechanism:

Clique Proof of Authority (PoA):

10.1 Overview of Clique PoA:

The Clique Proof of Authority (PoA) consensus mechanism is a fascinating departure from the energy-intensive and computationally demanding Proof of Work (PoW) consensus seen in networks like Bitcoin. Instead of relying on miners competing to solve complex cryptographic puzzles, Clique PoA places emphasis on the identity and reputation of validators who maintain the network. This mechanism combines the benefits of decentralization with the efficiency of a trusted validator approach.

In Clique PoA, validators are handpicked based on their real-world identity and trustworthiness, rather than their computational power. This selection process helps establish a network that's not only secure but also highly predictable, making it ideal for applications where rapid confirmation and low latency are paramount.

10.2 Validator Selection Process:

The process of choosing validators in Clique PoA is meticulous and purposeful. Validators are individuals or entities that are known and trusted within the network. This trust could stem from their reputation, stake in the network, or other verifiable attributes. Their identities are confirmed off-chain, which means the selection process is centralized to some extent, but the ongoing validation process is distributed.

Once selected, validators take turns proposing new blocks. This rotation ensures that no single entity gains control over the network, mitigating the centralization risk associated with fully centralized systems. During their designated turn, validators package transactions into blocks and propose them to the network.

10.3 Block Proposal and Verification:

The process of proposing and verifying blocks in Clique PoA is designed to strike a balance between efficiency and security. When a validator's turn arrives, they assemble a block containing pending transactions and broadcast it to the network. Other validators then quickly verify the validity of the proposed block. This verification process is notably faster and less resource-intensive than PoW mining, allowing for rapid block confirmation times.

Once a supermajority (often two-thirds) of validators reach a consensus that the proposed block is valid, it is added to the blockchain, and the consensus is achieved. This consensus mechanism provides a high degree of finality, as the trustworthiness of validators is presumed, reducing the need for prolonged confirmation times seen in PoW systems.

10.4 Benefits of Clique PoA:

The process of proposing and verifying blocks in Clique PoA is designed to strike a balance between efficiency and security. When a validator's turn arrives, they assemble a block containing pending transactions and broadcast it to the network. Other validators then quickly verify the validity of the proposed block. This verification process is notably faster and less resource-intensive than PoW mining, allowing for rapid block confirmation times.

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- **Energy Efficiency:** Unlike PoW mechanisms that demand immense computational power, Clique PoA operates with significantly lower energy consumption. This is because the consensus process revolves around known and trusted validators, without the need for resource-intensive computations.

- **Fast Block Confirmation:** The reliance on trusted validators and a consensus process involving fewer computational steps leads to rapid block confirmation times. This is vital for applications that require quick and reliable transaction processing.
- **Sybil Attack Resistance:** Clique PoA is inherently resistant to Sybil attacks, where a single entity creates multiple nodes to take control of a network. Validators are carefully selected and rotated, making it prohibitively difficult for a malicious actor to dominate the consensus process.

- **Predictable and Reliable:** With a set of known validators taking turns to propose and validate blocks, the network's behavior becomes more predictable and stable. This is beneficial for applications that rely on consistent performance.

Incorporating the Clique PoA consensus mechanism into PKRD Blockchain not only addresses the energy inefficiencies of traditional PoW mechanisms but also paves the way for enhanced scalability, security, and user experience. The next sections of the whitepaper will delve deeper into the security measures in place to protect the network and the smart contract ecosystem thriving on this consensus foundation.

11. Network Security:

11.1 Finality and Immutability of Transactions:

In the context of our Clique Proof of Authority (PoA) consensus-based blockchain, network security is intricately linked to the concepts of transaction finality and blockchain immutability. These two pillars are crucial to ensuring the integrity of the network and the trustworthiness of transactions.

- **Finality:** Unlike Proof of Work (PoW) mechanisms, where blocks are added to the blockchain probabilistically and can be orphaned if a longer chain emerges, PoA achieves quick transaction finality. This is due to the deterministic and reputation-based nature of validator selection.

When a validator proposes a block and the supermajority of other validators validate and confirm it, there is a high degree of certainty that the block is legitimate and will not be discarded. This confidence in the validity of transactions provides users with rapid confirmation times and reduces the risk of double-spending attacks.

- **Immutability:** Immutability is a core characteristic of blockchains that ensures once a transaction is added to the blockchain, it cannot be altered or deleted. In our PoA-based blockchain, immutability is maintained through the consensus mechanism.

Once a block is added to the blockchain and the consensus is achieved, the combination of cryptographic hashes and the trustworthiness of validators ensures that the block's content remains unchanged. This property is essential for creating a tamper-proof record of transactions, suitable for various applications like supply chain management, financial transactions, and more.

11.2 Slashing and Penalty Mechanisms:

To deter malicious behavior and maintain the security of the network, the PoA consensus mechanism implements slashing and penalty mechanisms. These mechanisms ensure that validators act in the best interest of the network and avoid behaviors that could compromise its integrity.

- **Double Voting and Proposing Invalid Blocks:** Validators in the PoA network are entrusted with the responsibility of proposing and validating blocks accurately. If a validator attempts to double vote (participate in validating two conflicting blocks) or proposes an invalid block, it jeopardizes the network's consensus process and undermines its security.
- **Consequences:** Validators found engaging in malicious behavior can face penalties in the form of slashed stakes or temporary suspension from the validation process. Slashing refers to the reduction of a validator's stake, which they put up as collateral to participate in the consensus process. The severity of the penalty may vary based on the nature and frequency of the violation. This discourages validators from attempting to undermine the network, as the economic repercussions are significant.

These slashing and penalty mechanisms serve as a powerful deterrent against malicious behavior and ensure that validators are motivated to act in the best interest of the network. By incentivizing honest behavior and aligning the validators' interests with the security of the blockchain, our PoA-based network maintains a high level of trust and integrity.

In the subsequent sections of this whitepaper, we will explore the various use cases that benefit from the efficient and secure nature of PKRD Blockchain, as well as the tools available to developers for building and deploying smart contracts within this ecosystem.

12. Interoperability with Ethereum

and EVM Compatibility:

12.1 Cross-Chain Communication:

Interoperability between blockchains has emerged as a critical feature in the rapidly evolving landscape of decentralized technologies. PKRD Blockchain places a strong emphasis on enabling seamless cross-chain communication, particularly with the Ethereum network. This interoperability opens up a multitude of possibilities for asset transfer, data sharing, and collaborative development between the two ecosystems.

- **Decentralised Bridges:** A decentralized bridge serves as a technological link that facilitates communication between two distinct blockchains. In our case, the bridge establishes a secure and trustless connection between PKRD Blockchain and the Ethereum network. Through this bridge, assets and data can be securely moved between the two chains while maintaining the properties of transparency, security, and decentralization.
- **Atomic Swaps and Hash Time-Locked Contracts (HTLCs):** Atomic swaps and HTLCs are cryptographic techniques that allow assets to be exchanged between blockchains without the need for intermediaries. Atomic swaps ensure that either both parties successfully complete the exchange, or the transaction is canceled, preventing one-sided transactions.

HTLCs extend this concept by introducing a time-bound condition for the transaction to be completed. These techniques provide a secure and efficient way to perform cross-chain asset transfers.

12.2 Smart Contract Portability:

A pivotal advantage of PKRD Blockchain is its ability to seamlessly port smart contracts from the Ethereum network with minimal modifications. This compatibility significantly reduces the entry barrier for developers familiar with Ethereum's Solidity programming language and tools.

- **Shared EVM Architecture:** The Ethereum Virtual Machine (EVM) serves as a runtime environment for executing smart contracts. Our blockchain replicates the EVM architecture, ensuring that the same bytecode instructions and execution environment are available.

This means that a Solidity smart contract deployed on Ethereum can be re-deployed on our blockchain with little to no code changes.

- **Development Tools and Libraries:** Developers accustomed to Ethereum's development ecosystem will find a familiar set of tools, libraries, and frameworks to aid in the deployment and management of smart contracts. This ensures a smooth transition and reduces the learning curve for creating decentralized applications on our blockchain.

12.3 Bridging Mechanisms:

Bridging mechanisms play a pivotal role in enabling the movement of assets and data between PKRD Blockchain and the Ethereum network.

- **Token Wrapping:** Token wrapping involves locking assets (such as ERC-20 tokens) on the Ethereum network, minting equivalent wrapped tokens on our blockchain, and vice versa. These wrapped tokens can then be used within the respective ecosystems while representing the same underlying asset. The process ensures that the total supply of the asset remains unchanged during the transfer.
- **Cross-Chain Validators:** Cross-chain validators are responsible for verifying transactions and state changes on both blockchains involved in the bridging process. These validators ensure that assets locked on one chain are released on the other chain as per the predetermined conditions. This cross-validation mechanism adds an extra layer of security to the bridging process.

- **Interledger Protocols:** Interledger protocols establish standardized communication channels between different blockchains. These protocols facilitate the seamless movement of assets and data by breaking down transactions into smaller, interconnected steps. By utilizing interledger protocols, our blockchain can communicate with the Ethereum network in a standardized and efficient manner.

In conclusion, PKRD Blockchain's interoperability with Ethereum enhances the overall blockchain ecosystem by enabling secure and efficient cross-chain communication, facilitating the porting of smart contracts, and implementing robust bridging mechanisms. These features collectively empower developers, users, and businesses to explore new dimensions of blockchain technology and leverage the strengths of both networks for their applications.

13. Conclusion

The PKRD platform, with its innovative features and strategic vision, is set to revolutionize the global financial industry. By offering stable, liquid, and environmentally friendly digital currencies, PKRD aims to bridge the gap between fiat and crypto, providing secure and efficient financial solutions for individuals, merchants, exchanges, governments, and independent power producers. As the pioneer of green stable coins, PKRD is committed to promoting sustainable development and economic growth, making it a trusted and valuable asset in the digital economy.

Surely, the PKRD project will bridge east and west financial trust as a balanced approach to sustain the Global economic system for a progressive world.



THANK YOU

**With the compliments of PKRD coin founders
Mr. Salman Choudary,
Mr. Tahir Mahmood
And Green Compass Holding s.r.o Managment Team**