## GEN green energy chain+One-stop Intelligent sharing platform for Automobile Resources

# 《White paper》

**Construction of GEN Green Energy chain and Integration of Block chain with One-stop Intelligent sharing platform for Automobile Resources.**

## GEN green energy chain•Opening the era of Intelligent sharing of Automobile Resources

# <Catalogue>

# Summary

With the sustained and rapid development of the global economy and the substantial improvement of people's living standards, more and more families have owned private cars.With the expansion of the automobile market, the emission, traffic congestion, environmental pollution and other problems emerge.The emergence of GEN green energy is to change the traffic problems.Looking at the current traffic situation, it is not difficult to see that the automobile transportation industry is faced with problems such as information opacity, traffic congestion, lack of vehicle track, serious energy consumption, frequent traffic accidents, environmental pollution, and so on.With the application of block chain technology in GEN green energy source , these problems can be solved .

GEN green energy is to make use of the technical characteristics of decentralization of block chain, de-trust, collective maintenance and reliable database, aiming at the pain point of the industry in the transportation industry, the traditional centralized information isolated island can be opened up. To realize the sharing of business and data under the premise of information security and confidentiality so as to avoid serious economic losses caused by non-sharing of data and mutual distrust,Fundamentally solve the problem of trust in the transportation industry.The GEN green energy platform uses the semi-public of the block chain, binds the vehicle and the coin address, carries on the vehicle authentication management, such as the electronic "license plate number";According to the location of the block chain, the traffic jam is judged, and the traffic is guided by intelligent comb.block chain technology will allow a low - cost direct communication bridge between the vehicle and other nodes in the gen green energy source ( in the past it is difficult for us to do M2M conversations , transactions , or even payments ) ,GEN green energy coins can be directly on the platform to pay a number of traffic penalties;Intelligent adjustment of toll standards for different sections of roads, different time, different road conditions to collect different fees, maximum efficiency to alleviate traffic jams, improve road efficiency.

As a result, intelligent GEN green energy is combined with cutting-edge technologies such as blockchain technology.It can improve road safety, reduce traffic congestion, reduce energy consumption and reduce environmental

pollution. Combined with block chain technology, it can also improve the energy efficiency of transportation system, strengthen the integration of green environmental information, and better cooperate with green energy management and monitoring.In the future, Gen green energy will become the future star of the global new energy sharing automobile securitization, digital asset industry.

# Chapter I Project background

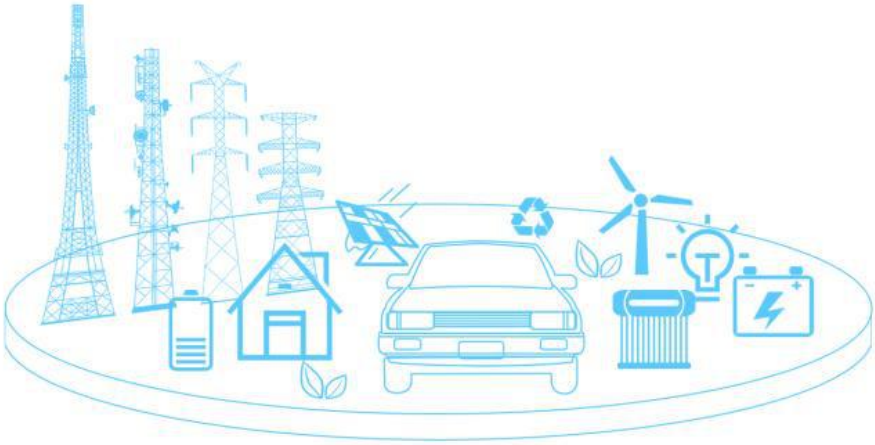
Green energy is the logical origin of the global energy Internet green development appeal to ensure the sustainable development of human society.Energy saving and emission reduction and sustainable green development are the important goals that countries all over the world are actively exploring.In China, the latest announcement is that 19th CPC National Congress's report explicitly calls for "a green development and lifestyle", "to promote the revolution in energy production and consumption, and to build a clean, low-carbon, safe and efficient energy system."

China is not only the world's largest producer and consumer of renewable energy, according to authoritative data.At the same time, the industry is the largest renewable energy investment country, and has become one of the most important forces to promote the development of global green energy.

According to the BP Yearbook of World Energy Statistics, global renewable energy generation (excluding hydropower) increased 14.1 percent in 2016 compared with the same period last year.China surpasses the US as the largest producer of renewable energy in the world.A study by the U.S. Institute of Energy Economics and Financial Analysis (IEEFAA) showed that China's involvement in

and acquisitions of large international clean energy projects reached $44 billion in 2017.At present, the world has entered a new clean energy transformation is entirely possible.

In recent years, with the publication of American futurist Rifkin's book the third Industrial Revolution, the concept of energy Internet has been widely discussed in the world.Rifkin, who has traveled many times between China and the United States, makes the point in his new book that after the first and second industrial revolutions, the "third industrial revolution" will be the impact of the Internet on the energy industry.That is, the combination of Internet technology and renewable energy, energy mining, distribution and utilization of energy from the traditional centralized to intelligent decentralized, so as to transform the global power grid into an energy sharing network.



It is understood that the construction of a global energy Internet to meet global electricity demand in a clean and green way will reach 80 percent by 2050, replacing fossil energy equivalent to 24 billion tons of standard coal each year and reducing carbon dioxide by 67 billion tons.By then, global carbon dioxide

emissions could be controlled at about 11.5 billion tons, only about half the 1990 level, and the global temperature rise would be within 2 ℃.

Marked by the green energy Internet has become a new era of industrial energy construction and development of a new direction,It is to establish a new mode of energy industry development which is closely related to energy production, transmission, storage and consumption, and form a new management system of energy production and consumption system.Energy Internet will activate green energy to help green industry, which is the way of energy utilization in the future.

# Chapter II Project Introduction

## 2.1 company introduction

GEN Foundation was founded in Singapore, the business philosophy to achieve sharing, create a win-win, to bend over the new era of change thinking, to reduce haze, to develop green low-carbon as their own responsibility, continuous

innovation, is a new strategic industry in the new era. The new strategic industry of the new economy.This will be another big industry. Gen green energy is to practice the concept of green low-carbon development, explore the comprehensive utilization of energy, and be responsible for the planning and construction of the regional energy Internet. The development and utilization of new and renewable energy, the development of energy finance, and so on. We are committed to creating "green energy" that can be replicated, popularized and comprehensively utilized energy, and is also committed to the integration of ecological chain of shared automobile industry, unified and coordinated planning and design. Investment, construction and operation and maintenance, vigorously promote GEN green energy and other technologies.

## 2.2 Project introduction

GEN uses the block chain to build a new energy sharing vehicle process and build it into a "click, sign, green trip and drive" process.Bringing together first-line technical personnel in the block chain industry, as well as experts in the shared automobile industry, after comprehensive and in-depth market analysis,Integration of block chain technology into the trading scenario, flow scenario, service scenario in the automotive industry of new energy sharing,利 Using block chain distributed accounting system,Trust mechanism, intelligent contract, consensus mechanism, build the automobile industry trust system based on block chain technology,It became the first GEN green energy commercial block chain to be used in new energy sharing vehicle securitization and digital assets.

The users of the platform come from all over the world and choose the corresponding services according to their own needs.Include experts online

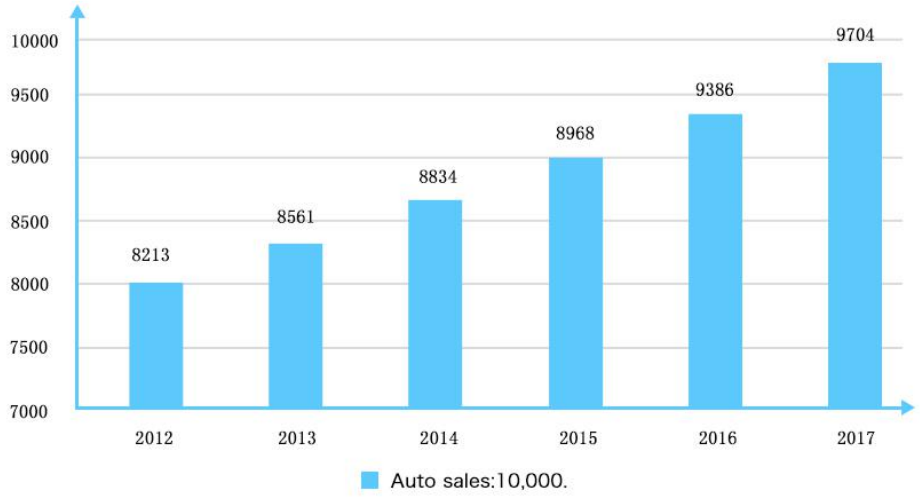
consultation and booking, online purchase of automotive products, online choice of auto trading market or auto finance companies.The platform can choose the products online with the token of the platform, and accept the services from the corresponding institutions of the platform through offline channels.

# Chapter III Industry Analysis

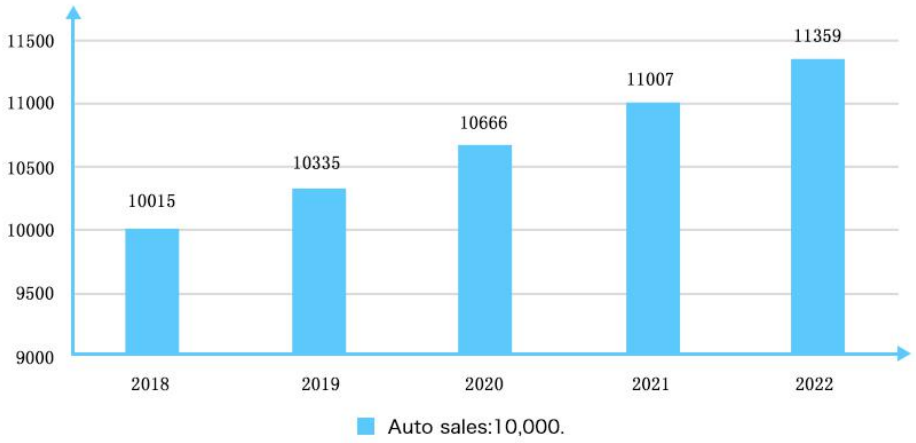
## 3.1 Industry status

Market analysis and growth of the automobile industry

In recent years,The steady development of China's national economy and the steady increase of residents' income and purchasing power have promoted the development of the global automobile market.Global car sales are rising year by year, with a compound annual growth rate of 3.39% between 2012 and 2016.In 2016, global vehicle sales exceeded 90 million, and in 2017, global sales of vehicles exceeded 97 million.




**Global auto sales trends 2012-2017.**




**Forecast trend of global automobile sales in 2018-2022.**

The global auto market is expected to continue to grow steadily in the coming years as demand from emerging market countries continues to grow.Between 2018 and 2022, the average annual compound growth rate of global car sales was about 3.2%.Global car sales are expected to increase to 113.59 million vehicles in 2022.According to this rate of increase in car sales, traffic congestion has become a consensus problem in global urbanization.So many experts believe that the emergence of block-chain technology can improve traffic congestion and other urban traffic conditions.

## 3.2 Industry pain point

The current shared car system is growing rapidly,However, due to the level of information technology, security precautions, standardization of the formulation of a serious lag, its operational structure still has a variety of obvious problems , Such as traffic jams, vehicle traffic violations, exhaust pollution, etc.The reason is that there are a large number of isolated islands, which have the following three main aspects:

**1 ) Data islands:**The data of each shared automobile service platform are often stored and defined separately.The data of each shared automobile service platform can not be connected with the data of other platforms, forming a data island.Simply put, the lack of correlation between the data, the database is not compatible with each other, but also lead to different enterprises to repeat the collection of user data, data value in the user experience can not be maximized.

**2 ) Information islands:**While sharing cars into the private sector, it also creates a problem for companies to understand user information.A large amount of information screening on the Internet is costly, and the sharing automobile enterprises have a single access to user information.At the same time, users in the shared automobile industry information labels are not consistent, which leads to information island.

**3 ) User information island:**Although the enterprises of the shared automobile industry record the data used by the users in their APP, they cannot judge the comprehensive credit level of the new users.because the user is required to be kept secret , the users in different fields have different usage rights ,Therefore, the enterprise can not judge the individual comprehensive credit of each user, which leads to the isolation of the user credit information.

# Chapter IV GEN Green Energy chain-opening the era of Intelligent sharing of Automobile Resources

## 4.1 Definition of digital assets

Digital assets refer to non - monetary assets owned or controlled by an enterprise , in the form of electronic data , held in daily activities for sale or in production .The generation of digital assets benefits from office automation. Digital assets are developed by electronic payment systems, and its prospects are foreseeable.

With the development and application of Internet technology, digital assets emerge as the times require, such as electronic currency Qcoin, network payment and some application software, etc.And is constantly integrated into people's production, life, become an indispensable part of the Internet age. These kinds of resources, which are owned or controlled by enterprises or individuals, exist in the form of electronic data, have certain value or are expected to bring economic benefits, are collectively referred to as digital assets.

## 4.2 Matching of Block chain and Digital assets

Block chain technology and digital assets have sufficient "cooperation space".

On the one hand, the business model of digital assets is not shared to a certain extent. They centralized the resources and then distribute it unify, more like a kind of aggregate economy.However, the essence of digital assets is to stop concentrating and diversify social resources in a point to point manner.Let the participants pay and benefit in different ways.On the other hand, the essence of

block chain is weak control, sub-center, autonomous mechanism, network architecture and coupling connection. Through distributed nodes, real point-to-point communication can be supported and disintermediated trust can be achieved.The decentralization of block chain technology can help me to share digital assets completely.In general, the changes brought about by the block chain to digital assets include the following:

From centralization to decentralization, the construction of digital assets ecological circle.The real value of the block chain lies in fostering consensus among the centralised institutions of the various industries and building alliances.Forming a convalescent ecosphere of multiple centers, such an ecosystem accentuates the function of the center and greatly simplifies the operating cost of the central institution.

From distrust to trust, digital asset trust crisis is a thing of the past.Based on the principle of mistrust, the operation of the whole system is open and transparent.Through the mechanism of signature and the simple way of making use of the minority to obey the majority, we can guarantee the credit from the mechanism.For example, on the GEN Green Energy Digital Asset platform, through the use of blockchain technology, users can view the real mutual fund pool at any time.Do not worry about mutual funds pool fraud, do not worry about the platform will roll money running, as long as there may be credit risk and capital risk can be monitored using block chain.

Never safe to safety, eliminate user information concerns.First, user data is stored in block chain structure. It has self checking property and can be detected quickly after tampering.Second, the data has the same backup at multiple nodes, and even if the data on one node is modified, it can be automatically recovered

from other nodes.From the mechanism to prevent the hacker's data tampering attack.With block-chain technology, users can view their real pool of funds anytime and anywhere.

The block chain is the first technology that can truly dismediate trust,This means that it is possible to collaborate with big data without any third party's digital asset sharing, and to automatically perform operations that satisfy a given condition by virtue of intelligent contract technology. The block chain itself is immutable for distributed information storage, so that the information can be recorded permanently in advance so as to combine the data information that can be shared first, open and digital assets. With the help of block chain technology, accurate and credible information can be shared. Quantifiable data indicators,Through authoritative third-party credit agencies can obtain more authoritative and credible user information analysis and advice.

## 4.3What is GEN Green Energy chain

GEN green energy is the use of block chain technology to share the car industry open data interface, step by step access to shared vehicle location, share travel, share vehicle credit traceability and other shared applications.By using block chain technology, big data, a shared network, is promoted to communicate in various fields, to achieve more efficient data integration, to create a first-class ecosphere of decentralized credit sharing green energy, and to promote travel innovation and collaborative cooperation among various subjects.It also allows users to better use green travel services through token incentives.

1 ) GEN Green Energy links the link to the automotive industry data interface to deconstruct the data structure to form a green ecosphere .Specifically, the

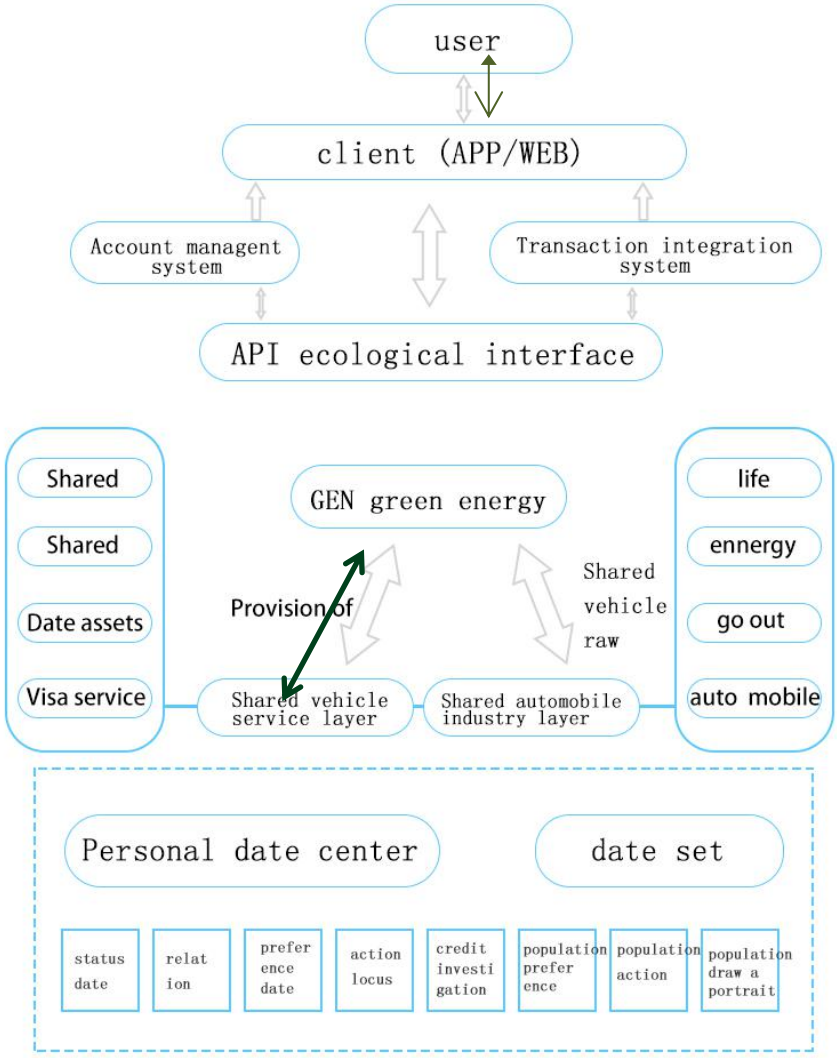
platform uses blockchain technology to give these industries a API interface,Access to the original data (identity data, relational data, preference data, behavior trajectory data, credit data, car energy consumption, etc.) provided by the user to the shared automobile industry,And the personal data in all industries are linked to the service layer application in the block chain, based on shared books, digital assets and authentication services feedback analysis to form a group data set.There is no doubt that interactions between multiple industry agents will produce massive amounts of data,In the process of collaborative interaction, GEN green energy big data (including user behavior data, user credit data, etc.) is formed by the diffusion and flow of multi-form data.

2 ) Shared car industry operators can use comprehensive user data, cross-domain cooperation and marketing innovation.Multi-dimensional user behavior data will give operators a more comprehensive picture, can provide a new perspective of marketing inspiration.It can also correlate the credit rating of the whole industry users, open the credit system of the shared users, and improve the credit standards of the whole industry in order to provide better service.In general, it can realize the intelligent analysis based on the Internet of things and the industry application and service of the ecological circle, and realize the business value reconstruction of the whole shared industry ecosystem.

3 ) Introduction of token mechanism to encourage the participation of users in various industries.Tokens are mobile, encrypted digital rights and interests proof that can flow under the premise of maintaining the safe operation of the block chain system together. It is a reward and incentive for the participants in the system.It can be verified, traded, exchanged at any time, anywhere,In the infrastructure with block chain as the transaction and flow, it also has the

characteristics of seamless flow, fast transaction and transnational transaction.Users have the opportunity to "dig" to get token money every time they use shared products or services. The accumulated tokens can help users directly pay for violation penalties.Even convertible into French coins, free from national and regional restrictions, can be used globally.

The rewards and incentives of the participants, which can be verified, traded, exchanged at any time, anywhere.In the infrastructure with block chain as the transaction and flow, it also has the characteristics of anonymity, seamless flow, fast transaction and transnational transaction.



## 4.4 Characteristics of GEN Green Energy chain

1 ) Decentralization structure eliminates data island and data fusion and sharing across industries. The platform provides a unified data market platform, breaks the barriers of data exchange and sharing among different industries, and supports the threshold of cross-industry data application development.Make data easy to collect, easy to store, easy to understand, easy to process, valuable. In view of the logical information isolated island, we can establish the data standard, define the data standard, and build and maintain the metadata.For physical information islands,At the right time, we can integrate the main business processes of the shared car, according to this process, combined with the strategy, the different business systems can be connected to each other, so that the data can be linked to each other.

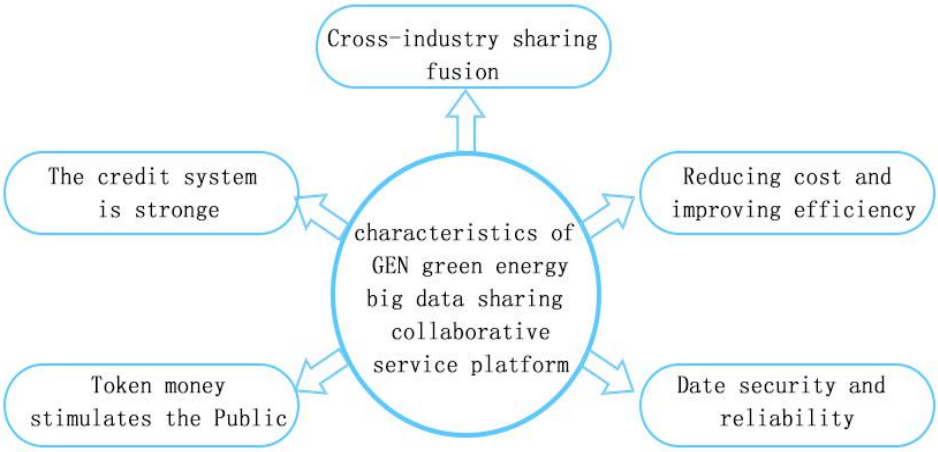
2 ) Reduce cost, high efficiency material connection.The platform provides a perfect standard system, user knowledge base and user, developer community, to help the ecological construction of the Internet of things.The block chain can provide this shared industry biosphere network with an accommodative, trusted infrastructure.It can reduce the operation and credit cost of central equipment and improve the efficiency of operation and utilization of industry assets.

3 ) More secure and reliable data, privacy is fully owned by the user.The data is stored on the decentralized resource by block chain encryption, authentication, authorization mechanism and so on. Except the user himself, no organization or individual can access the original data of the user.The data can be limited open only if the user agrees to authorize it.Under the differential privacy encryption of

cryptography, the application can study some of the user's data, but it can not analyze the personal data, let alone view, copy and tamper with the data.

4 ) Smart contracts strengthen the credit system.In the platform, the agreement of all industry contracts is intelligentized. The intelligent contract is used to automatically execute the contract reached by both parties, which eliminates the artificial interference factors and prevents the denial of any party from the system.GEN Green Energy guarantees reliable enforcement of all agreements, avoiding tampering, denial and default.Transform tangible assets into digital smart assets for power, authorization and real-time monitoring.

5 ) Unifying positively motivates participants to achieve win-win ecological prosperity.The token system, which makes individual behavior valuable and monetized, can effectively encourage the development of a virtuous circle in the industry. Any individual behavior that contributes to the value of this transportation industry ecosystem, even if it is spontaneous by the user, Voluntary and small acts,Both can be valued and monetized in the form of Token, and are encouraged.That is, through the design of incentive model based on Token, all industry participants can be encouraged positively in a unified dimension, so that all of them can work together to create and win-win ecological prosperity.GEN Green Energy does not require users to provide email, name, or any other information for consumers to provide privacy.



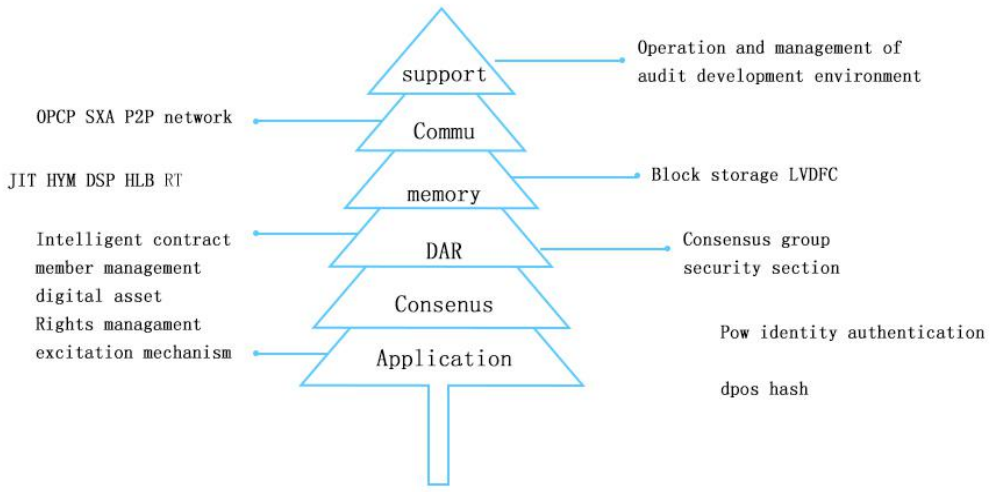

# Chapter V GEN Green Energy chain Integrated platform Architecture

## 5.1 GEN Green Energy chain Digital Asset platform

GEN green energy digital asset platform is located in the block chain as the core supporting platform, digital asset transaction process provides data collection, storage, calculation, analysis and product-level solutions.The platform mainly serves as a platform trading service for the digital currency exchange, new energy sharing vehicle securitization, digital capitalization, forecasting investment risk value, calculation of wealth value-added income, transparent platform finance, etc. Intelligent customer service,In addition, with the development of the platform will expand the business to other green energy, finance, credit information and other fields, giving full play to the platform's advantages.Working together to

create the world's largest GEN green energy chain digital asset platform allows global blockchain technologists or blockchain enthusiasts to learn their knowledge from our trading platform, thereby driving the value of tokens.Promote the development of our platform , promote the technological progress of the block chain industry , truly serve the technology in real life , practical in society , and serve science and technology .

## 5.2 GEN Green Energy chain Operation system




Architecture diagram of GEN Green energy operation system

The GEN green energy operation system adopts the underlying architecture of module component, when the user builds block chain application or block chain sub-chain,Most components are designed to be assembled as Lego blocks by referencing each other, and all components support pluggable technology.For example, consensus components support POW, POSU, PBFT, etc., encryption algorithms support RSAs, country secret, etc.Users can also extend on it.

Storage components and communication components are the basic components of all block chain systems;In terms of communication components, Gen green energy operation system is implemented in addition to the basic P2P network. It also extends the principle communication network and flexible link protocol; in terms of storage components, the Gen green energy operation system is in addition to ordinary block storage,The storage components such as the file storage of the world state and the block data and the storage of relational database are also implemented to meet the high requirements of the institutional users to the equipment and the high concurrency of the data query.

In terms of security components, it is different from the full anonymity of bitcoin and the certificate authentication of Hyperledger, and the GEN green energy running system takes identity authentication as an option.Users may only need to display their identity authentication information when running a specific block chain application.

In terms of application components,The GEN Green Energy operating system has provided the basic components for creating smart contracts and block-chain applications such as intelligent contracts, digital assets, incentive mechanisms, member management and rights management.

## 5.3Authorized intelligent contract

Authorized smart contracts are the registration and automated management of block-chain-based smart contracts, which are defined as settlement commitments in digital form.All relevant parties involved in the settlement shall reach an agreement on the above and implement the agreement automatically on the terms of consensus.Digital form means that the contract has to be written to

computer-readable code.This is necessary because, as long as the parties agree, the rights and obligations of the intelligent contract are exercised by a computer or a computer network.From the user's point of view, the intelligent contract on which you rely is usually considered an automated guarantee account.For example, when certain conditions are met, the program automatically releases and transfers funds.

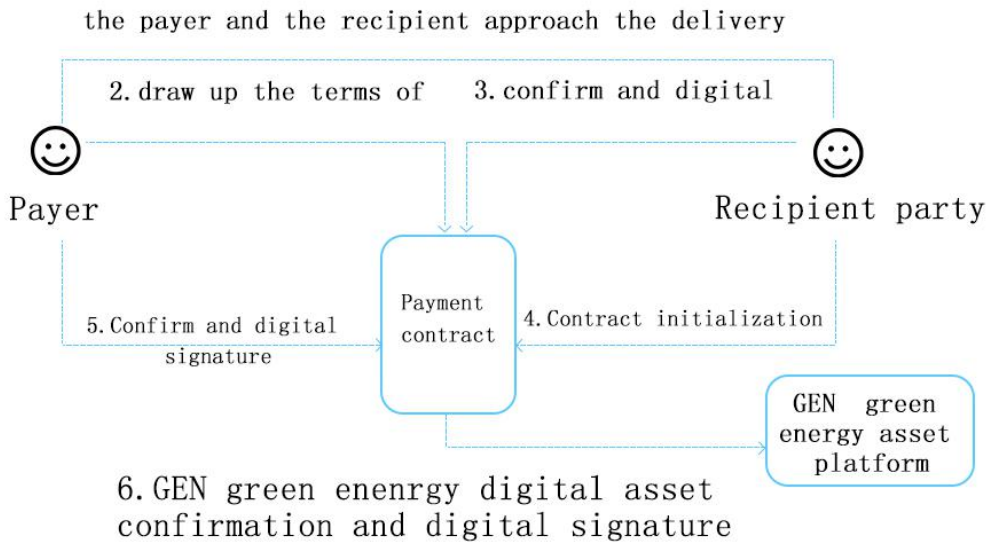
The responsibilities of smart clearing houses in the clearing system include contract registration, contract triggering, contract execution and contract cancellation,Including asset consistency check, automatic dealmaking, multi-confirmed transfer, automatic liquidation due and so on. The terms of the contract include:

1 ) Target for payment:It contains three kinds of target A, service content, relevant contents and parameters of purchased services, information content, specific information of financial products or services traded, products, and financial products purchased.

2 ) The terms of reference, the requirements of the payer for access to such content, such as the timing of service acquisition, the accuracy of access to information, and the functional requirements of the product.

3 ) Supplementary terms, i.e. other notes to the payer.

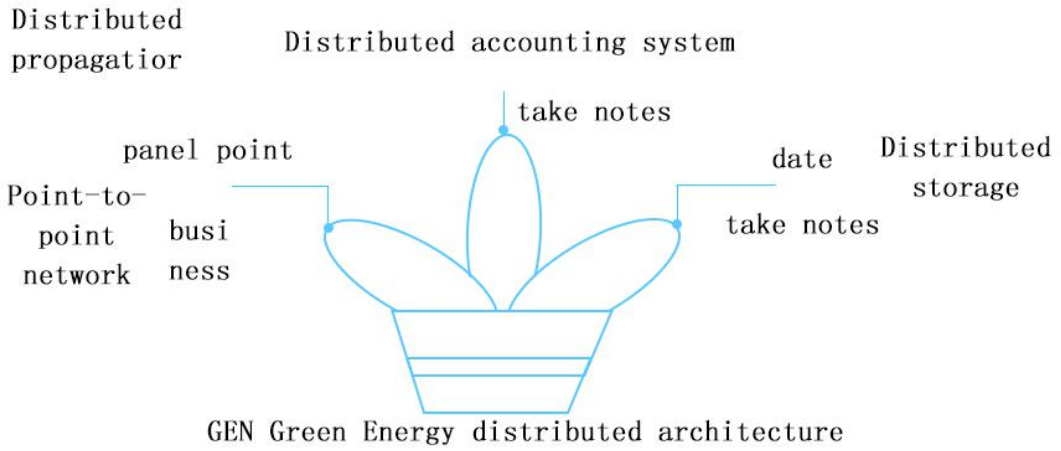
When the payer fills in these terms, the code will automatically be written into the smart contract and published on the block chain,According to the logic of the terms of the contract, the execution is triggered by the user's signature or other event, and the recipient will see the original regulations in the contract and complete the settlement of the transaction.




# Chapter VI Application of GEN Green Energy chain Block chain Technology

## 6.1Distributed frame

The block chain of GEN Green Energy builds a distributed architecture based on the open source, decentralized protocol defined by the system.Let the information of value exchange be distributed and sent to the whole network, determine the content of information data through distributed bookkeeping, and generate block data after timestamp.Then the distributed storage is transmitted to each node through distributed propagation. Specifically, the distributed architecture is embodied in three aspects:




1 ) Distributed bookkeeping.GEN Green Energy establishes a distributed accounting system in which everyone can participate in recording information through voluntary principle, thus decentralizing the accounting responsibility, which is recorded by all the participants in the whole network.

2 ) Distributed communication.Each new transaction in the block chain is propagated in a distributed structure. According to the P2P network layer protocol, the message is sent directly from a single node to all other nodes in the whole network.

3 ) Distributed storage.Let all data in the database be stored in all computer nodes of the system and updated in real time.The completely decentralized structure enables the data to be recorded in real time and updated in every network node involved in the data storage, which greatly improves the security of the database.

Through distributed bookkeeping, distributed propagation and distributed storage, the data storage, transaction verification and information transmission in the system are all decentralized.In the absence of a hub, large-scale sharing industry participants will agree to build a block-chain database.

## 6.2 Data block structure

The structure of a single block chain of GEN green energy data blocks consists of three parts:

1 ) Data area block

2 ) Transaction list

3 ) Uncle block header list

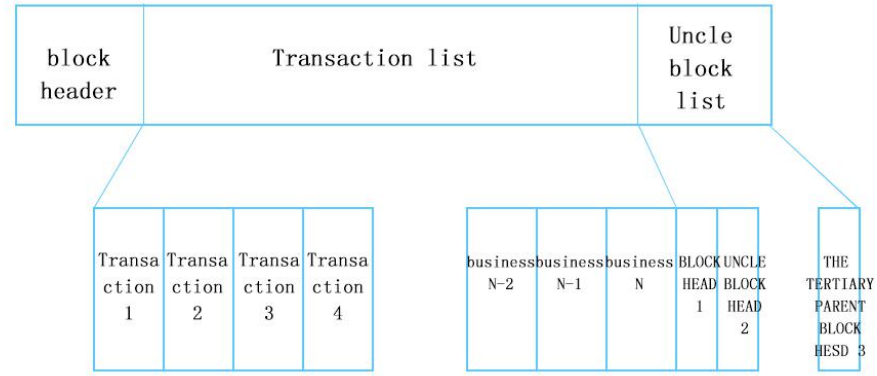



Figure :GEN green energy data block structure

Generally speaking, HashTransListMerkleRoot and nNonce are the places where mining freedom is exercised.The process of the GEN green energy data chunk header is also similar to bitcoins :

a)Choose the transaction to be confirmed, because the miner can get the fee from the transaction, so when building the block, it will choose as many transactions as possible, but it can not exceed the upper limit of the capacity set by the AI parameter.

b ) Determine the Coinbase, which records the benefits to the miners if the block is successfully constructed.At the same time, according to whether to support the ghost protocol, allocate part of the award to the data node.

c ) The Merkle tree of the set transaction information and the Merkle tree of the block head of the uncle node are constructed. Then the random number

nNoncees are generated according to the RNN algorithm and the other parameters are written.

d ) Finally construct GEN green energy data area block.

## 6.3 Consensus mechanism

The value anchor of block chain is the consumption and output of chain itself.When the block chain selects PoWN Power-of-Workplace (workload proof) as a consensus mechanism, the computational power consumed by each block generation will be the cornerstone of its value.In addition, in green energy, each node has the ability to solve the real environmental problems, and can provide a variety of shared industry products and services.If each node on the green energy can participate in the settlement of the shared work, the whole block chain has realistic output value.Therefore, in order to maximize the value of block chain itself, green energy will choose the consensus mechanism based on PoW by default.The core elements of POW are:The greater the computational power, the greater the probability of digging blocks and the greater the weight of maintaining block chain security.

However, due to the obvious defects of PoW, such as slow transaction speed, the consensus mechanism of the subsequent data link in the platform will be designed to be modular and can be configured by the control chain parameters. It can be used dynamically in different application scenarios of public chain and private chain.The green energy sharing and cooperation big data platform will select the appropriate consensus mechanism for the application scenario and transaction situation of the data link itself to ensure the data consistency of each distributed node through the algorithm.

## 6.4 Secure encryption algorithm

GEN green energy security encryption algorithm, is the improvement of the traditional Ethernet workshop.

1 ) Symmetric encryption:Symmetric encryption is the fastest and simplest way to encrypt and decrypt with the same key.Symmetric encryption usually uses a relatively small key, typically less than 256 bits. The size of the key is a trade-off that takes into account both security and efficiency.

2 ) Asymmetric encryption:Asymmetric encryption provides a very secure method for data encryption and decryption, which uses a pair of keys, public keys and private keys.The private key can only be kept safely by one party, not leaked, and the public key can be issued to anyone requesting it.Asymmetric encryption uses one of these keys to encrypt, while decryption requires another key.

3 ) Private key ：Closed, is a 256-bit random number, kept by the user and not open to the public.The private key is usually generated randomly by the system, which is the only proof of the user's right to use the account and the ownership of the assets in the account. The effective position of the key is large enough, so it is impossible to be breached and there is no security hazard.

4 ) Public key:Public. Each private key has a public key that matches it. The ECC public key can be generated by the private key through a one-way, deterministic algorithm.Secp256r1 (international standard), secp256k1 (bitcoin standard) and SM2 (Chinese national standard). The bionic chain control chain and the initial data link select secp256r1 as the key scheme.

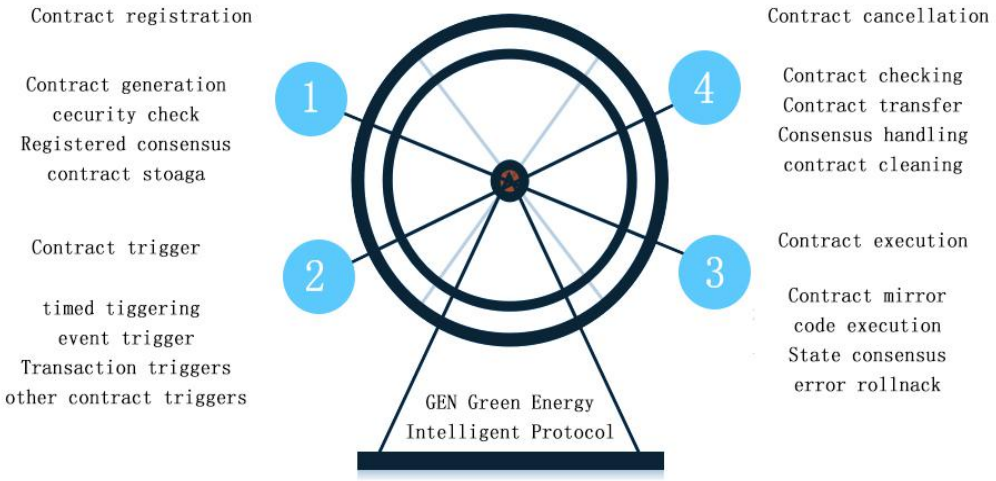
5 ) Hash algorithm:Generally speaking, the hash algorithm refers to the secure hash algorithm Shah, which is a series of cryptographic hash functions issued by

the National Security Agency (NSA) and the National Institute of Standards and Technology (NIST).It includes variants such as SHA-1, SHA-224, SHA-256, SHA-384 and SHA-512.At present, bitcoin adopts SHA-256 algorithm. With the exception of PoW, the other hash algorithms refer to SHA-256.

## 6.5 Intelligent contract protocol

Intelligent contract is essentially a program, there is a possibility of error, or even lead to serious problems or chain reaction.We need to do a good job of fault-tolerant mechanism, through systematic means, combined with operating environment isolation, to ensure that the contract in a limited time as expected.

The user selects the relevant conditions to generate the intelligent contract through the shared application sharing product.If the term of the lease, on behalf of the payment of deposits, rent and deductible, and so on,When an intelligent contract obtains external data, it will take the initiative to replace the response of the enterprise and the user when it is detected in accordance with the preset conditions, such as automatic delivery, automatic refunds, automatic refunds and so on.The whole process is recorded on the block chain to ensure the correctness integrity and non-tampering of all states and to reduce the impact of accidents.



## 6.6Decentralized autonomy

"GEN Green Energy" needs to be upgraded with the increase of network data, so it is necessary to introduce the mechanism of decentralization autonomy.Can be separated from the current through institutional constraints or third-party endorsement, both parties directly achieve value delivery.This "decentralization" feature can effectively reduce transaction costs, improve transaction efficiency and reduce friction caused by transaction consistency.

The implementation of the centralization of autonomy is also traceable.Any new transactions, commodity sources, and logistics destinations attached to the block chain will result in a shift in the global state of the ledger.This means that in every new iteration of the system, the previous state is stored, making the history log fully traceable.The audit capability of the block chain provides the company with the security and transparency of each iteration.

# Chapter VII Analysis of the Future Application value of GEN Green Energy chain

## 7.1 Main Application scenarios of GEN Green Energy chain

GEN green energy chain uses block chain mother chain , building up the green energy chain of chain development ,GEN issued 130 million units at the most original price, 10% of the total amount of private equity issued. The private equity received other valuable digital assets, such as GEN, for the operation of the GEN team, as well as for global environmental protection industry chain

investment.It has the advantages of decentralization, convenience, high security, low cost, intelligent sharing and transparency.The ENG can be produced by the algorithm, and the ENG can be used to drive a shared car and be sold to the user, which shows the value of ENG.

## 7.2 Analysis on the Future value of GEN Green Energy chain Project

GEN green energy chain based on block chain technology provides a decentralized, authoritative new energy sharing vehicle securitization, digital asset, automobile information sharing and intelligent management platform, which makes the whole new energy sharing automobile service industry more standardized. Because of the outstanding performance of block chain, the application of block chain technology to GEN green energy chain platform will better serve the development of new energy sharing automobile industry.On the one hand, the green energy chain of Gen can take advantage of the non-tampering of the block chain to record all the relevant information of the new energy sharing vehicle and form a complete circulation track.In order to prevent the new energy sharing car products fake and inferior situation, to protect the legitimate rights and interests of consumers.At the same time, the green energy chain of Gen can help strengthen industry supervision and promote the healthy development of digital capitalization of new energy sharing automobile industry by building a trust system based on technology.

# Chapter VIII GEN green energy chain development planning

## 8.1 Initial planning

The core of this project lies in the application of blockchain technology and its integration with the trade settlement, financial industry, securities industry, shared automobile industry, etc.Therefore, the focus of the early work is on the development of the platform.On the basis of market research and analysis to form their own unique business model.At the same time, the release of white papers, early investment to achieve GEN green energy contract platform. At the same time, other business alliance, block chain, digital encryption will also start synchronously.

## 8.2 Medium term planning

In this project, the global strategy and the GEN green energy distribution will be based on the sharing of the automotive industry.To achieve strategic cooperation with shared automobile companies in various regions of the world and open up the sharing of data and materials.At the same time, work with them to promote GEN green energy, expanding the project's coverage of the user base.Intensive farming, platform construction completed, funding in place, the next must make the platform user oriented, play its value.Therefore, it is necessary to promote the application of the platform, such as marketing the major shared car trading platforms to target users and finding more partners to live in the GEN

green energy platform.In addition, Baidu can also be used to promote seo and other ways to expand the influence of GEN green energy platform, aimed at creating an open, transparent and fair contract GEN green energy service platform.

## 8.3 Future planning

GEN Green Energy will integrate several types of shared Industries to access 20-50 shared applications access scenarios: shared cars, shared trips, etc.,Organize multi-language platform to work in collaboration with global shared industries and materials to create a trillion-scale global consumption to create a rich ecological circle.At the same time, will also contact more overseas block chain exchanges, actively promote overseas GEN green energy launch plan.Enhance the international influence of the project.After the launch of the exchange, the green energy team and the board of directors will continue to develop the block chain technology in depth, while maintaining the harmonious development of the ecological environment of the block sharing industry, and continue to access more sharing applications.

# Chapter IX GEN Green Energy chain profit Model

## 9.1Data profit

GEN green energy belongs to the rising big data industry, mainly aimed at the field of shared automobile consumption big data.Its profitability consists of three models:

1 ) Solutions:To provide a solution for enterprises or institutions sharing the automobile industry, structure a big data system, and then regularly maintain and upgrade for users.The way to collect profits is:Construction and deployment of big data system maintenance / upgrade service costs.

2 ) Infrastructure:GEN green energy can be used as the basis of database, data source, data cleaning, data processing tool, commercial version of data API Hadoop, big data engine, software and hardware, integrated computer and so on. Method of collection of profits:Fees are charged according to different facilities , and the payment can be made according to the demand , month , year , year and year , and the comparison is convenient and flexible .

3 ) Industry applications:GEN green energy mainly devotes to share automobile consumption industry big data analysis, can apply the analysis result in the industry, provides the strategy, the product, the marketing and so on the guidance for the enterprise. Profit collection method: charge on demand.

## 9.2 Consumption accounting profit

After the GEN Green Energy platform was released as a token, Gen Green Energy was able to provide services to users in a variety of ways, and its profitability was multiple:

( 1 ) Each toll station, parking lot to enter the platform to pay a certain platform service charge;

( 2 ) Users on the platform use token to pay fines, pay high-speed fees and other services provided by the platform, need to pay the corresponding fees.

## 9.3 Block chain parent chain profit

GEN green energy applications will generate private chains and side chains in various industries, such as transport chains, parking sharing chains, supply chains and other private chains and side chains.On the contrary, each industry and industry block chain ecology will produce data contribution to GEN green energy parent chain, and then generate profit contribution.

# Chapter 10 introduction of Operation team

## 10.1Foundation

The GEN Green Energy Foundation (hereinafter referred to as the Foundation) is a non-profit foundation. And set up counterpart institutions in China in the form of associations,As the main body of the project chain governance, we are committed to the development and governance of GEN green energy in the

world.Will standardize the management of this project block chain technology development and application development, maintain the rights and interests of GEN green energy holders,Promote and promote the brand of this project and promote the safety, rational and healthy development of the ecological community of the car industry.

## 10.2Governing team

GEN green energy team members have blood, fighting spirit, dream, ability, adhere to integrity, professionalism, responsibility, service dedication,Major project managers have deep technical skills and have mastered the core technologies of GEN green energy. Also has rich professional knowledge and excellent project management ability, green energy "shared automobile industry" big data collaborative service platform team is a master of block chain technology experts and have a wealth of sharing industry The composition of experienced experts.It is a powerful guarantee for the future of GEN green energy.

Founder: W Erickson

W Erickson graduated from the Massachusetts Institute of Technology with a bachelor's degree. Gen founder and 7 years experience as Chief Technical Director. He has led more than 200 technical engineers to develop the underlying technology. Since October 2017, he has formed a GEN technical team to fully develop the Green shared chain (Gen) blockchain project, which will be fully invested and officially launched the same year as the Green Energy chain (Gen).

Technical partner: Jonathan Rosenberg

Is a software engineer, graduated from the University of New Zealand, with a bachelor's degree. He has more than 3 years of experience in large software and

game development companies in New Zealand. Two years ago, he entered the world of Ethernet, and now his work is programming in the Solidity, Python, C / C and C # language. Lead more than 10 people to write green energy chain Gen) block chain source code.

Business partner: David Lewis

The co-founder of BitWorld, who is responsible for the operation and promotion of BitWorld, has also joined the Green share chain (Gen) team at the invitation of the sponsors. Currently a business operations consultant, 30 years of financial experience can help green energy chain to understand the actual needs of users.

## 10.3 Counsellor of the Foundation

1、Chen Chao

Brief introduction:Automobile expert, CAA Continental Automobile Club, co-founder of mainland Automobile Club, Red Book Auto data Company, Australia, China Red Book Automotive data specialist, CAA Management training Lecturer, SABU SAB Management training.

**Technical adviser**

1、yves van der straaten

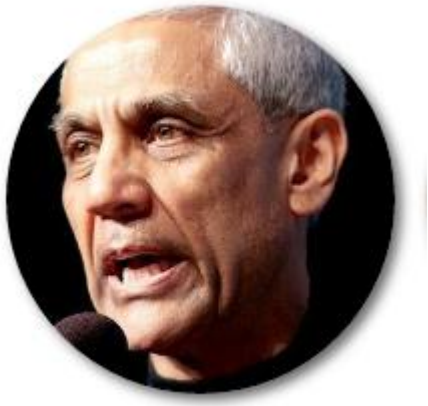
Brief introduction:General Secretary of the World Automobile Organization

2、Jerry Cuomo

Brief introduction:Block chain technical expert，Jerry has spent his career leading the way in IBM advanced technology engineering since 1987, where he is currently vice president of Blockchain technology.A new business unit within the IBM Cloud Group. In his new role, Jerry is leading IBM's strategic Blockchain, product and customer interaction approach defined.Holds the title of academician IBM, who is one of the founders of IBM WebSphere software.At IBM, Cuomo has led projects in economic API, mobile computing, cloud computing, Web application server Java / IP, real-time collaboration software, and high-

performance transaction processing systems.Como has now filed 50 U.S. patents for IBM.Jerry continues to be seen as a spokesperson for IBM in the emerging business and technology world.

3、Khosla Venture



Khosla Ventures, based in Menlo Park, is known by TechCrunch as Big Mac Venture Capital.Khosla recently raised $400 million for the next batch of seed investments, some of which will be spent on bitcoin and block chains.Khosla's list of Bitcoin investments includes 21 Incas with more than $120 million, Blockstream, a bitcoin side chain technology firm, chain, a blockchain technology expert, and BlockScore, a financial services provider.

Among them, Chain, a fledgling blockchain company, was founded in 2014 to provide infrastructure such as API for financial institutions that use the block-chain.Chain was able to raise $30 million in September from investors such as Nasdaq vis and Citigroup.In May, Nasdaq teamed up with Chain to launch a pilot operation of bitcoin for private equity trading.

# Chapter 11 issuance Programme

## 11.1Issuance scheme

1 ) Name of token:GEN green energy

2 ) Total number of tokens issued:Total number of issued 130 million, constant issue

3 ) Receiving currency:Other valuable digital assets, such as ETH and ETH. Gen Green Energy, are digital assets based on deblock chains issued by etheric ERC2.0 technology.

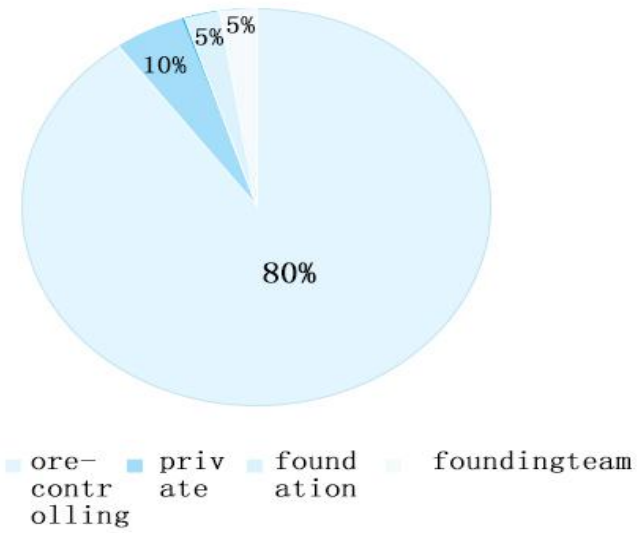
4)GEN has a constant issue of 130 million, 10% of the total amount of external private equity issued at the most original price.The private offering accepts other valuable digital assets, such as BTCs ETH, for GEN team operations and industry chain investments in global environmental protection.

5)The duration of private placement is April 8th, up to April 25th.From April 26 th to May 4 th complete all client private equity valid certification.

6)Private equity policy:According to the share of the assets subscribed by the customer account, it is released on time in five months and released 20%. monthly.

## 11.2Detailed rules of issue

This public offering is 80% 10% for the team to hold 10% for private equity. Gen green energy distribution details, as shown in the figure below.




**Rules for issuing GEN Green Energy tokens.**

| scheme | scale | Number / piece | use | explain |
|---|---|---|---|---|
| Dig ore | 80% | 104000000 | Incentive promotion operation | ✓ Unlocked period |
| foundation | 5% | 6500000 | Operation of the Foundation | ✓ Full lock 36 months |
| Founding team | 5% | 6500000 | Inspiration from the founding team | ✓ Full lock for 60 months |
| private placement | 10% | 13000000 | For research and development of the chain | ✓ Freezing period is 5 months |
| altogether | 100% | 130000000 | | |

# Chapter 12 risk Tips

- Risk of loss of token due to loss of certificate

The buyer's token is likely to be associated with an account before it is allocated to the buyer, and the only way to enter the account is through the relevant login credentials chosen by the buyer.The loss of these vouchers will result in the loss of tokens.The best way to safely store login credentials is for the buyer to separate the credentials into one or more places and preferably not to store them and expose them to work.

- Risks associated with buyer's vouchers

Any third party obtains the login credential or private key of the purchaser.In order to minimize this risk, the buyer must protect his electronic devices from unauthenticated access requests and access to the device content.

- Risks associated with judicial regulation

Blockchain technology has become a major regulatory target in every major country in the world.Applications or tokens may be affected if regulators step in or exert influence,For example, restrictions on the use, sale, and electronic tokens, such as tokens, may be restricted, hindering or even terminating applications.

- Application of risk of lack of attention

The possibility that platform applications are not used by a large number of individuals or organizations means that there is not enough public interest in developing and developing these related distributed applications. Such a lack of interest could have a negative impact on tokens and applications.

- Risk that the application or product is not up to standard

The expected risk application of the platform itself or the buyer is currently in the development stage and may be subject to major changes prior to the release of the official version.Any expectation or imagination by itself or by the buyer of the function or form of the application or token (including the behavior of the participants) is likely to fall short of expectations,Any erroneous analysis, a design change, etc., could lead to this.

- Vulnerability risk or the risk of rapid development of cryptography

The rapid development of cryptography or the development of science and technology, such as the development of quantum computers,Or the risk of cracking to encrypted tokens and platforms, which may lead to the loss of tokens.

- Lack of maintenance or use risk

First of all, tokens should not be treated as an investment, although tokens may have some value after a certain period of time.But if it is not maintained or used, the value can be very small.If this happens, there may be no follow-up followers or few followers without this platform. Obviously, this is very bad for token.

- Dissolution risk

There is a possibility that, for various reasons, including fluctuations in the prices of tokens themselves, the development of applications has encountered problems.For possible reasons such as a breakdown of business relationships or intellectual property claims, the project could be severely hit or disbanded at any time.

- Fault risk of application

The platform may fail due to various reasons and can not provide services normally. In serious cases, it may lead to the loss of users' tokens.

- Unforeseen other risks

The cryptographic token is a completely new and untested technology, in addition to the risks mentioned in the white paper. There are also risks that teams have not mentioned or anticipated,In addition, other risks may suddenly arise or appear in a combination of many already mentioned risks.

- Other notes

Fully understand the operational platform development plan and clear block chain industry related risks, otherwise not recommended to participate in this private placement.If you are involved in this private placement, you have confirmed that you fully understand and approve the terms and conditions in the rules.

# Chapter XIII Disclaimer

This document is used only for information transmission, and does not constitute the relevant opinions on the sale and purchase of this project.

The above information or analysis does not constitute an investment decision. This document does not constitute any investment advice, investment intention or instigator investment.

This document is neither composed nor understood to provide any transaction, nor is it any form of contract or commitment.

Interested users clearly understand the risks of the project, once investors participate in the investment, they understand and accept the risks of the project, and are willing to personally bear all the corresponding results or later.

The operating team shall not bear any direct or indirect losses arising from participation in the project.