# Datacar

# DATACAR WHITE PAPER

Datacar will create a memory blockchain+Internet of Things+ big data+AI a core automotive data service platform

BIG DATA

BLOCKCHAIN

# Preface

In recent years, the development of clean energy at home and abroad is very rapid. Two-thirds of the new installed power generation capacity is clean energy. While the concept of green environmental protection is promoted around the world, green transportation in the field of new energy, that is, new energy vehicles, has gradually become an important research topic in the field of science and technology. However, the world is also facing the dual pressure of energy crisis and environmental crisis. How to combine green energy with green transportation, and how to make new technology bring more convenience to the field of new energy?



Blockchain and distributed energy just meet the needs of the development of The Times. One of the significant features of clean energy is widely distributed, such as wind energy, light energy and biomass energy. How to promote the commercial value of clean energy has become an important bottleneck to promote leapfrog development. Blockchain technology has attracted much attention. It is certain that the combination of the two has become inevitable, and the application of blockchain technology will accelerate the pace of traditional energy towards green energy, co-energy and smart energy.

# catalogue

# 1. Development status of new energy vehicles

Today, there are more than 1 billion cars worldwide, and the global number of cars worldwide will triple by 2050. Such amazing data, undoubtedly to the natural environment and the supply of oil has brought a huge pressure. In order to protect the scarce oil resources on the earth, it is necessary to develop new energy vehicles. New energy vehicles to replace the internal combustion engine car, not only can alleviate the lack of oil resources today, on the other hand, also can effectively reduce environmental pollution, so the development present situation and the trend of new energy vehicles, make new energy vehicles under the help of science and technology more conducive to environmental development, become a new energy and a priority in the field of science and technology.

## 1.1 Automatic generation of intelligent contracts

New energy vehicles refer to vehicles that use unconventional power fuel and combine modern high-tech technology. The most common new energy vehicles include hybrid electric vehicles, gas vehicles, hydrogen fuel cell vehicles and electric vehicles.
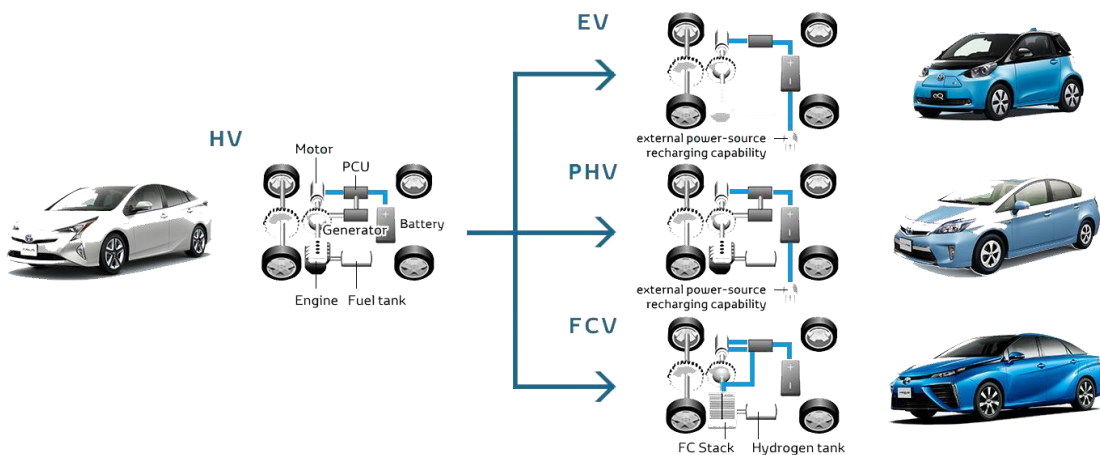


At present, some developed European and American countries have been gradually reducing the production of fuel vehicles. For example, after the "emissions gate" incident, German Chancellor Angela Merkel announced that Germany would ban the sale of gasoline and diesel cars. In order to promote the development of new energy vehicles, countries around the world are implementing new policies to create a suitable soil for the development of new energy vehicles. Thus, the development of new energy vehicles has made a further breakthrough, and gradually got on the right track.

Datacar

## 1.2 Global development trend of new energy vehicles

With the lack of oil resources, in order to promote the sustainable green development of the automobile industry, the development and rise of new energy vehicles are very important.

According to market research, in recent years, the world's new small-displacement internal combustion engine vehicles occupy most of the market, and by 2017, the market share of hybrid electric vehicles in the market has increased significantly. With the development of science and technology, the global charging facilities for electric vehicles will be greatly improved after 2020.

## 1.3 Problems facing the development of new energy vehicles

### 1.3.1 Problems facing the development of global new energy vehicles

Regardless of the appearance and comfort of the car and the interior of the body, the core technology of new energy vehicles or electric vehicles lies in the power battery, drive motor and electronic control system. However, in these fields, the current global new energy vehicle technology is not mature, the scientific and technological research and development efforts need to be improved. In addition, in the powertrain of vehicles, the core technology has also made breakthroughs, many new energy vehicles in various countries take cooperation with automobile companies from different countries, using the pipeline of common intellectual property rights to develop their own models. In addition, the current development of new energy vehicles challenges include: product design is not mature (battery efficiency and battery management), the use of safety questions (charging safety, product safety and personnel safety), vehicle power battery comprehensive performance is not strong, how to achieve relevant standard certification is also the key to the development of new energy automotive industry.

### 1.3.2 The battery design is not standard

There is no unified and can follow the standard in the design of power battery, resulting in different design ideas of different enterprises, and the design ideas of the same enterprise are often modified and repeatedly modified, resulting in large defects in battery performance. Battery manufacturers often only pursue the optimal performance of their products in a certain aspect, and lack the evaluation and balance of the comprehensive performance of power batteries. For example, they only pursue the capacity of power batteries, which leads to a chaotic state of too many product types and uneven quality in the power battery market.

### 1.3.3 Large technology gap in manufacturing technology

The manufacturing technology of power battery is more complex and the processes are various, including the preparation of positive and negative electrode paste, electrode paste coating, positive and negative electrode roll rolling, positive and negative electrode production and battery assembly and other links. Each process will affect the efficiency of power battery. But at present, it is difficult for power battery manufacturers to control the details of each process to achieve high consistency. Battery manufacturing equipment technology gap is large. At present, there is a big gap in the battery manufacturing equipment in various countries, including accuracy, speed, reliability, unmanned, visualization, information and other aspects. The gap between manufacturing equipment in countries around the world also makes many countries more inclined to international procurement in the selection of power battery equipment, but despise the research and development of manufacturing equipment technology, thus forming a vicious circle.

### 1.3.4 Low automation level of battery production

The product design and manufacturing technology of global power battery is not fully mature, especially the key production process design of battery module is not mature, the verification is not sufficient, the first pass rate is low, and it is difficult to realize online automatic testing and quality tracking. Therefore, the production of power battery system is still mainly semi-automatic, and only a few battery manufacturers have realized the automatic production of power battery modules or modules.

# 2. Blockchain technology

## 2.1 Blockchain and its technical analysis

Blockchain is a decentralized database system with different nodes. It is an open book system (ledger). It can effectively verify the behavior and authenticity of all parties to the transaction and the participating parties. Its database is updated by all network nodes and supervised by all users, but any user cannot control and tamper with the database.
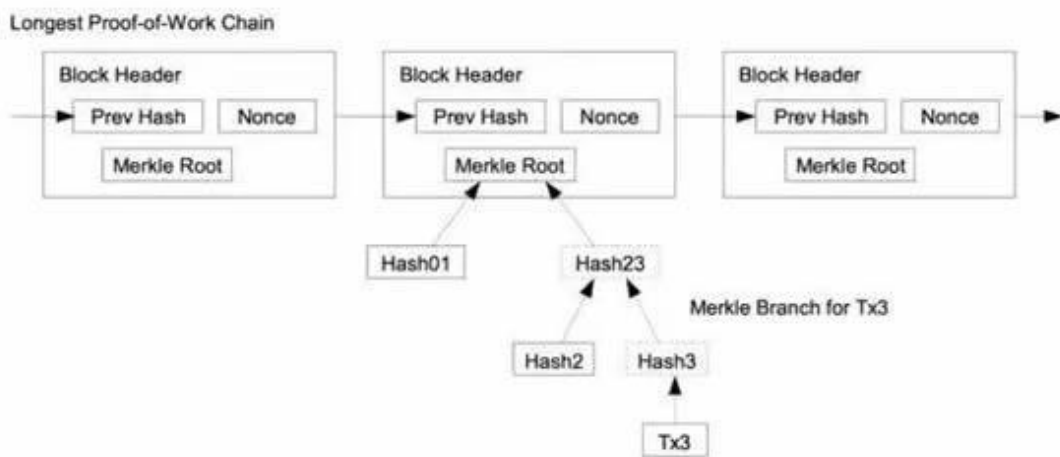


 Blockchain is composed of a string of data blocks or packets generated according to the cryptography method, namely block (block), each block data information is automatically stamped timestamp, so as to calculate a data encryption value, namely miscellaneous value (hash). Each block contains the miscellaneous value of the previous block, starting from the founding block (genesis block) to the link (chain) to the current area, thus forming the blockchain.

Blockchain is a consensus agreement that follows a mutually recognized mechanism and conducts direct, point-to-point interactive information without intermediate authoritative arbitration. In the future, blockchain will be widely used in financial transactions, public records, certificates, private records, certificates, physical assets and intangible assets and other fields.

Blockchain builds trust through this consensus mechanism. With it, all the nodes in the whole system can automatically and safely exchange data in a trusted environment. Compared to other tools, it is automatically matched, enforced in real time, and cheaply. Peer-to-peer transactions can be conducted without the partner vendor platform. Transaction data will be permanently stored in the blockchain system. Once the transaction is reached, the transaction is irreversible.

In the future, the digital information can be added to the blockchain. As long as you can enter the chain, the information property rights can be clear, the protection conditions can be set, and the transaction contract can be automatically initiated and enforced, without worrying about trust verification and trust execution, because the blockchain is implemented.

This trust is built on the blockchain, rather than being controlled by a single organization, so that the credibility can be cross-verified and supervised by multiple parties.

This is an important manifestation of blockchain decentralization and decentralization.

## 2.2 Blockchain characteristics

Blockchain has five main characteristics:

Decentralization: Due to the use of distributed accounting and storage, there is no centralized hardware or management organization, the rights and obligations of either node are equal, and the data blocks in the system are jointly maintained by all the nodes with maintenance functions in the whole system.

Openness: In addition to the encrypted private information of all parties to the transaction, the data of the blockchain is open to everyone. Anyone can query the blockchain data and develop related applications through the public interface. The information of the whole system remains highly transparent.

Automatism: Blockchain uses agreed specifications and agreements to enable all nodes across the system to automatically and safely exchange data in a "detrust" environment without human intervention.

Imtamability. The information will be stored permanently after being verified and entering the blockchain. Unless more than 51% of the nodes in the entire system are simultaneously controlled simultaneously (theoretically difficult to achieve), modifications to the database on a single node are invalid and the data is highly reliable.

Anonymity: Since data exchange between nodes requires no mutual trust (blockchain will determine the validity of economic activity), there is no need to disclose counterparties, and each participating node in the system remains anonymous.

## 2.3 Blockchain application field and commercial value

At present, the application of blockchain has been extended to the Internet of Things, smart manufacturing, supply chain management, digital asset transaction and other fields, which will bring new opportunities for the development of the new generation of information technologies such as cloud computing, big data and mobile Internet.

From the perspective of the development status of blockchain, blockchain will first be widely used in finance, digital content, games and other places where the blockchain has a good foundation.

From the perspective of the integration of blockchain and industry, blockchain will play a great role in promoting big data, artificial intelligence, common economy, crowdfunding economy and economy. In the long term, blockchain will be applied on a large scale in emerging industries such as the Internet of Things and new energy. As a new generation of Internet technology, blockchain will reconstruct the Internet and lead to a new round of technological innovation and industrial transformation. From the perspective of the commercial value of blockchain, since blockchain is a database of immovable history, blockchain can be used as a trusted tool to allow the transmission of value at almost no cost and reconstruct the existing production relations.

# BLOCKCHAIN

Blockchain can realize the intelligent assets of the whole society through smart contracts. At present, any company, organization or individual can easily issue their own token. With the development of the Internet, information can be transmitted at almost zero cost. Blockchain will establish an Internet of value transmission, so that the Internet information and value can be transmitted at almost zero cost. In terms of logistics, by linking the information of production, transportation and sales, the traceability information of all commodities can be accurately tracked. When information flow, capital flow, and logistics can all operate efficiently online, modern business will get unprecedented subversion.

The decentralization of blockchain can redistribute the existing interest relations and establish a new B2C model. The traditional business model and the current Internet business are monopolized by the giants, and the producers and consumers cannot get the corresponding rights and interests.

Based on blockchain, existing interests can be restructured. From the perspective of reconstructing production relations, blockchain can build an autonomous and efficient company, organization and social form.

In the future, blockchain will change the human society and change the relations of production of the whole society, just as the Internet does now. If you want to seize this opportunity, it is of no practical significance to hype the concept. What you really need to do is to concentrate on the research of technology and find practical application scenarios. From the perspective of the technological characteristics of blockchain (decentralization, accounting disclosure, data immutable and traceability) and commercial value (asset securitization, credible, autonomous and efficient), the application of blockchain technology will follow the following three principles: data is benefit, interest-related, and trust.

# 3. Blockchain and new energy vehicles

In the new energy vehicle industry, with the continuous development of energy system, the enrichment of energy categories, the distribution of energy system, the marketization of energy trading and the intelligence of power grid have become more and more clear development trend. The direction of the automobile industry is developing towards the direction of more intelligent network and greener environmental protection.



Blockchain application extends to the automotive industry, and the market potential is unlimited. BMW, Ford, GM and Renault, four major automakers, announced their addition to the Mobile Open Blockchain Initiative, including auto parts makers Bosch and ZF, as well as large companies Accenture, IBM, and blockchain companies ConsenSys and Hyperledger. The plan aims to create universal standards and apis that will enable car payments and data sharing to drive the construction of a new digital mobile ecosystem. A standardized blockchain network allows cars, infrastructure and service providers to communicate directly. This application will become even more important as the industry moves toward higher levels of autonomous driving and shared services.

Blockchain technology has injected new development opportunities and imagination space into the changes of the automotive industry. The core of blockchain is to use technology to create a multi-party trust mechanism, solve the credibility problems of data, objects, assets and people, and promote efficient collaboration across institutions and individuals.

After all the world is digital, how the parties involved trust these data, the physical world and the digital world. The digital world can be copied and changed, and how to ensure that the physical world is as real as the physical world is very challenging. Blockchain provides a possibility for this trust, which is determined by the characteristics of the blockchain.

The long-chain system brings about change. In the life cycle of a vehicle, the development and production stage is a multi-center coordination system of the OEMs and the components; and during the warranty period, the OEMs drive the supplier and the maintenance service system; after the warranty period is scrapped, it is the operation mode of the whole society. Blockchain, as an emerging IT technology, is more popular in the financial industry. However, with the great historical change of the energy industry and the great reform of the power market, the electricity sales market urgently needs to increase the opening efforts, and the growth of distributed power generation develops like bamboo shoots after a spring rain. Users on the demand side gradually begin to play the dual roles of consumers and producers through distributed energy. The power system wants to give users more initiative on the demand side, but users cannot keep up with the expected pace of the energy industry reform due to the inefficiency caused by opaque information and cumbersome processes.

The decentralization, detrust, transparency, fairness, openness and distribution of blockchain technology and the current need for energy reform

fit. Therefore, blockchain is expected to create a decentralized power market and promote the rapid development of distributed energy. The goal of New Energy Datacar is to provide a completely decentralized energy system. Blockchain technology helps to strengthen the market influence of individual consumers and producers, which also makes consumers have a high degree of autonomy to directly buy and sell energy. Blockchain technology has shown strong application potential in the energy sector. In addition to performing energy supply transactions, blockchain technology can also provide an integrated solution for metering, billing and settlement processes in the new energy sector.

There are many pipelines where the auto industry can use blockchain, and some of these uses are already starting to be developed and tried by big manufacturers. Porsche, Mercedes has begun implementing blockchain testing. In addition to BMW's distributed ledger books for cobalt materials, Benz has also launched a Safe Driving Plan that rewards cryptocurrencies through a blockchain application

With the continuous development of the energy system, the enrichment of energy categories, the distribution of the energy system, the marketization of energy trading and the intelligent power grid have become a more and more clear development trend.

The application of blockchain technology can gradually restore the credibility of the automobile market. The new energy Datacar using blockchain technology is based on block chain technology and realizes the advantages of blockchain through the convenience of new energy vehicles. On the basis of summarizing successful cases, it excavates the deficiencies of new energy vehicles and makes up for its shortcomings with blockchain. In addition, the new energy Datacar will also develop more convenient role in the new energy field

# 4. New energy sources are available in Datacar

## 4.1 Birth of new energy Datacar

New energy Datacar will focus on the new energy vehicle industry, using the decentralized characteristics of digital currency to reduce the redundant processes and a large number of intermediary costs between the traditional car industry, reduce the profit loss of finished automobile products in the sales process, and create more industrial business opportunities.

Datacar Will build a based on block chain + Internet + big data + AI core car data service platform, through the block chain technology continue to fu can, information sharing between global car and intelligent transportation system and collaborative management, in order to improve driving safety and efficiency, at the same time Datacar will build an efficient service platform, let the owner can realize on the platform of vehicle payment management and vehicle data control, for block chain technology breakthrough contribution to the development in the field of automobile.

Because of the basic attribute of absolute decentralization of new energy Datacar, no one or organization can control its distribution status and quantity. In addition to the rigor of the calculation, the original new energy vehicle trading mode will be gradually overturned. Only with the authorization and recognition of each node, the transaction can be recognized, effectively protecting the legitimate rights and interests of consumers. New energy Datacar and the world's top new energy vehicle origin, reached a deep industrial cooperation, to solve the problems of slow power grid layout, low energy storage power efficiency as the starting point, creating a new situation for the development of new energy vehicles.
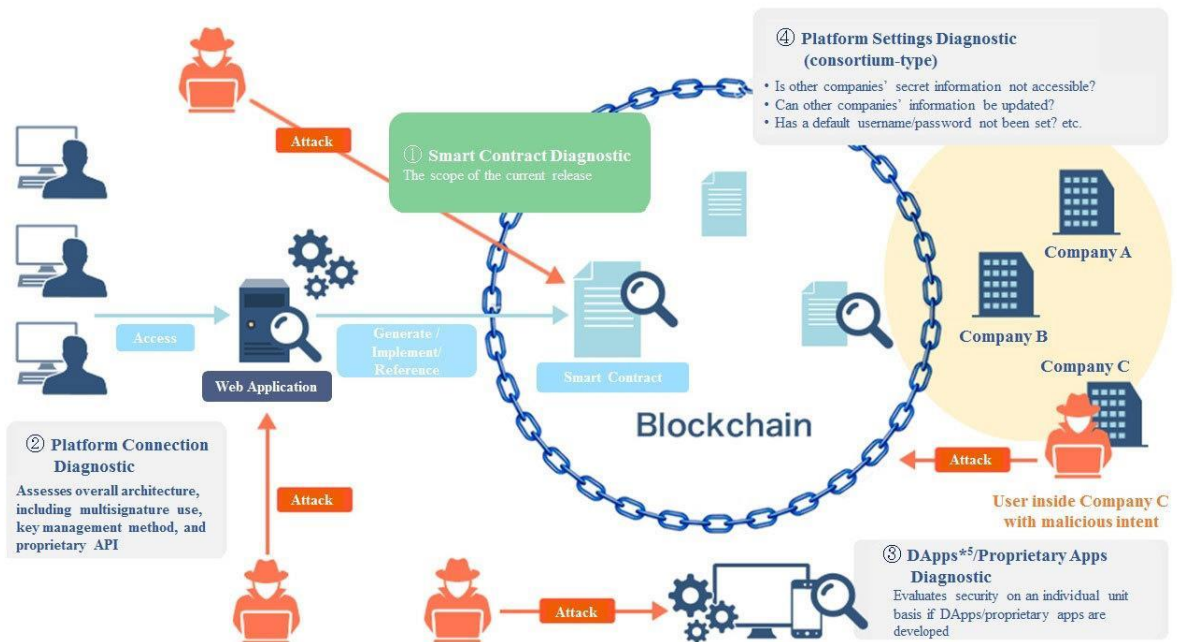
New energy creation chain is based on blockchain technology, Intelligent peer-to-peer network for identifying, disseminating and recording information in distributed databases presented by the unique blockchain decentralized technology, And decentralized peer networks, Using open-source software to combine cryptographic principles, temporal sequence data, and consensus mechanisms, To ensure the coherence and continuity of each node in the distributed database of new energy vehicles, Ensure that the new energy vehicle data can be immediately verified, traceable, but difficult to tamper with, To promote the convenient use of new energy vehicles, Create a system of efficient, secret and secure shared value, Especially suitable for new energy vehicles, Even the new energy sector after the market test and failed to solve the problem.

The new energy creation chain can store the information of car owners in the cloud of car mobile application in the form of blockchain. Car owners can grasp the status of the car, the maintenance record and the battery information in the car in real time, bringing more convenient experience to every car owner. At the same time, the transparency of the blockchain can analyze the driving behavior of the owners at all times to ensure that the records of the vehicle in the operation process can be viewed at any time and cannot be modified, as an important voucher for the most authoritative secondary transaction.

In the new energy creation chain, new energy computing nodes are composed of various forms, including full-function nodes (permanent nodes) of large server clusters, idle idle GPU server computing nodes for small and medium-sized enterprises, and personal idle GPU computing nodes. These nodes are deployed and applied to the new energy creation chain platform, enabling new energy enterprises to reduce their hardware costs by 70%.
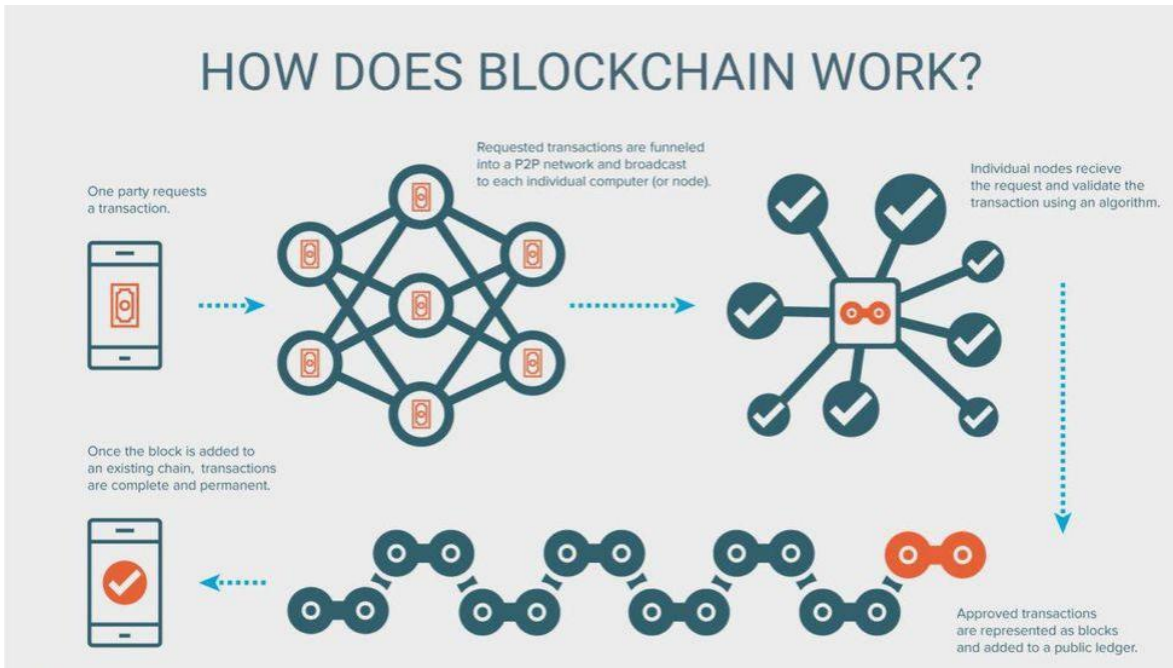
In addition, the new energy Datacar realizes the protection of data privacy. After submitting the computing training requirements, the new energy Datacar will not contact with the data. In the calculation on the chain, it is fixed through the intelligent contract and cannot be changed, which effectively avoids the potential privacy risks for enterprises when applying the data. All the nodes on the platform are anonymous, and each node has an anti-copy mechanism. New energy vehicles do not know where they come from when assigning each node for operation and training; on the other hand, each node does not know which data they are running because the data is encrypted. New energy Datacar The neural network node of Shanghai quantity can also be dynamically adjusted according to the calculation amount of user products, so as to meet the elastic calculation requirements of user products.

## 4.2 Scientific and technological advantages of new energy Datacar

New energy Datacar takes Yifang as the underlying architecture and generates an independent chain for all the nodes on its chain. Yifang also effectively optimizes the structure of intelligent application through the decentralization of blockchain, combined with the data analysis of new energy, and finally realizes the integration of information flow, cash flow and data process. The sharing of chain data on nodes in various new energy fields solves many problems including data sharing, data transformation, data migration, data replication, data format conversion, data redundancy and integrity maintenance. This brings the most intuitive change to the field of new energy, which is to greatly improve the circulation efficiency of users in the whole new energy Datacar. If the global data of new energy can be linked, users around the world can enter the new energy field through the new energy Datacar.

New energy Datacar uses digital currency wallet payment technology. The transaction process uses the wallet address, which has nothing to do with personal identity information. Users can have multiple new energy Datacar wallet addresses through multiple network devices. At the same time, in order to prevent others from tracking personal transaction records through blocks, the new energy Datacar will use public key encryption in the transaction process; and the new energy Datacar wallet will eventually integrate Tor (onion route) to prevent IP address dew, use three-layer encryption algorithm to hide user network traffic, and change the transaction source by jumping between different servers. New energy Datacar will maximize the anonymity of the transaction process and protect personal privacy.

In the future, new energy Datacar will not only play a role in new energy vehicles, but also develop all aspects of new energy products, penetrating into solar energy, wind energy, geothermal energy, biological wisdom, ocean energy and other industries, which will have a disruptive effect on the new energy field. New energy Datacar cancel all kinds of intermediate links, let users and users directly through the new energy Datacar contact, greatly saving human and material expenses and commercial costs, and effectively reduce the long-unavoidable risks in the field of new energy technology for a long time.



**HOW DOES BLOCKCHAIN WORK?**

One party requests a transaction.

Requested transactions are funneled into a P2P network and broadcast to each individual computer (or node).

Individual nodes recieve the request and validate the transaction using an algorithm.

Once the block is added to an existing chain, transactions are complete and permanent.

Approved transactions are represented as blocks and added to a public ledger.

New energy Datacar by block chain technology anonymous features, effectively ensure the high security of the user data, its tamper-resistant features and timestamp function can greatly strengthen each link in the process of data transmission artificial subjective or objective records lost, and the use of new energy automobile claims can also through the timestamp node back, efficient traceability process.

At the same time, thanks to blockchain technology, new energy Datacar can be circulated around the world. As long as there is a network, anyone can easily and conveniently upload all the new energy Datacar data involved to the distributed account storage, forming the formation of immutable account content, and provide relevant personnel such as owners, passengers and other access. This approach means that all the data of new energy vehicles are recorded synchronously to prevent tampering. The whole process is transparent and correct, which not only improves the experience of driving and riding, but also guarantees the safety between owners and passengers, and ensures that the interests of all parties are not damaged.

# 5. Datacar Economics

Scientific and perfect distribution mechanism, first of all, to ensure the internal operation vitality of the new energy Datacar team, can flexibly allocate resources, to achieve the maximum effective output of resources. Secondly, to a certain extent, it can resist the invasion of various risks in the market, and it can always make use of its own strong heritage to support the team building and solve practical problems and difficulties.

## 5.1 Token issuance mechanism

Project name: Datacar

Token name: DATR

Total issuance: 800 million units

## 5.2 token distribution mechanism

IDO: 25% (all output by market IDO, without lock warehouse, all released before launch; subscription: 800 million, first placement: 700 million, second placement: 0.50 million)
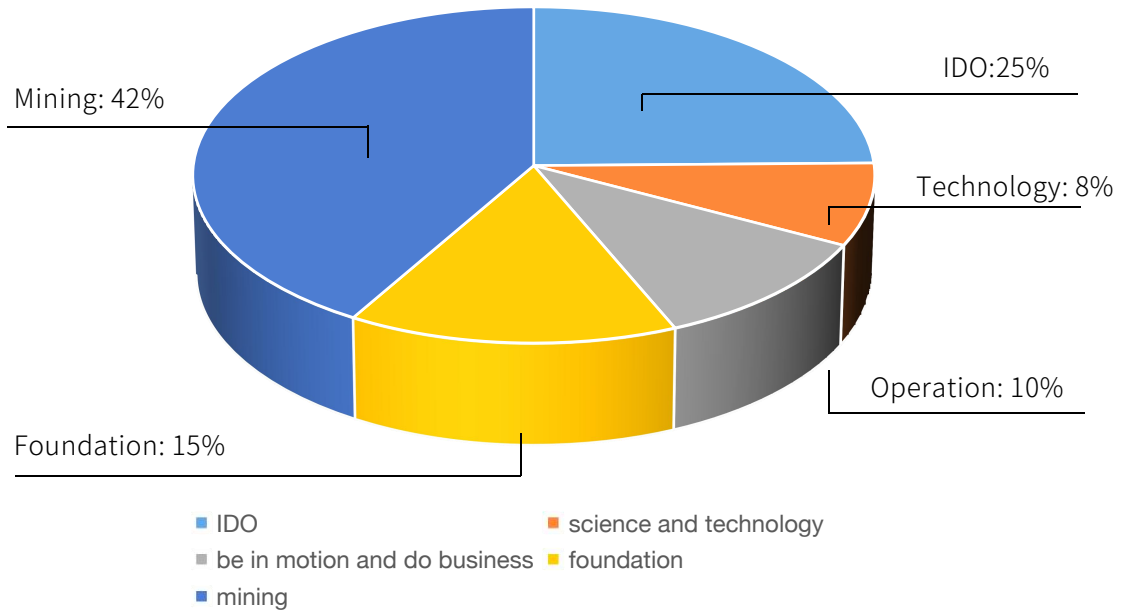
Technology: 8% (lock up for 5 years, then 2% released every year until all released)

Operation: 10% (audited by the foundation and issued from time to time, the specific release ratio will be publicized in the community)

Foundation: 15% (locked up for 4 years, then released 1% quarterly, mainly for public relations processing and reward users and institutions that contribute to the platform)

Mining: 42% (mined from user data)

## The specific allocation is shown in the figure:



Mining: 42%

IDO:25%

Technology: 8%

Operation: 10%

Foundation: 15%

- IDO
- science and technology
- be in motion and do business
- foundation
- mining

# 6. New energy Datacar platform construction

 New energy Datacar is not only used in a certain field, as an ecological digital chain of super industrial applications, new energy Datacar is based on wedge-in side chain technology, open API interface, can provide diversified services for all related industries, products and businesses in the new energy field

## The technology base of new energy Datacar has three characteristics:

1) Protect users from the influence of developers. In the new energy creation chain, program developers have no right to interfere with users and can protect the program users they use.

2) Low access threshold. Anyone with enough technical capabilities can have access, and a computer connected to the Internet can meet access.

3) All data are publicly available by default. Although all associated participants hide their true identities, this phenomenon is common. But each participant is programmed to see all the account balances and all the transaction activities.
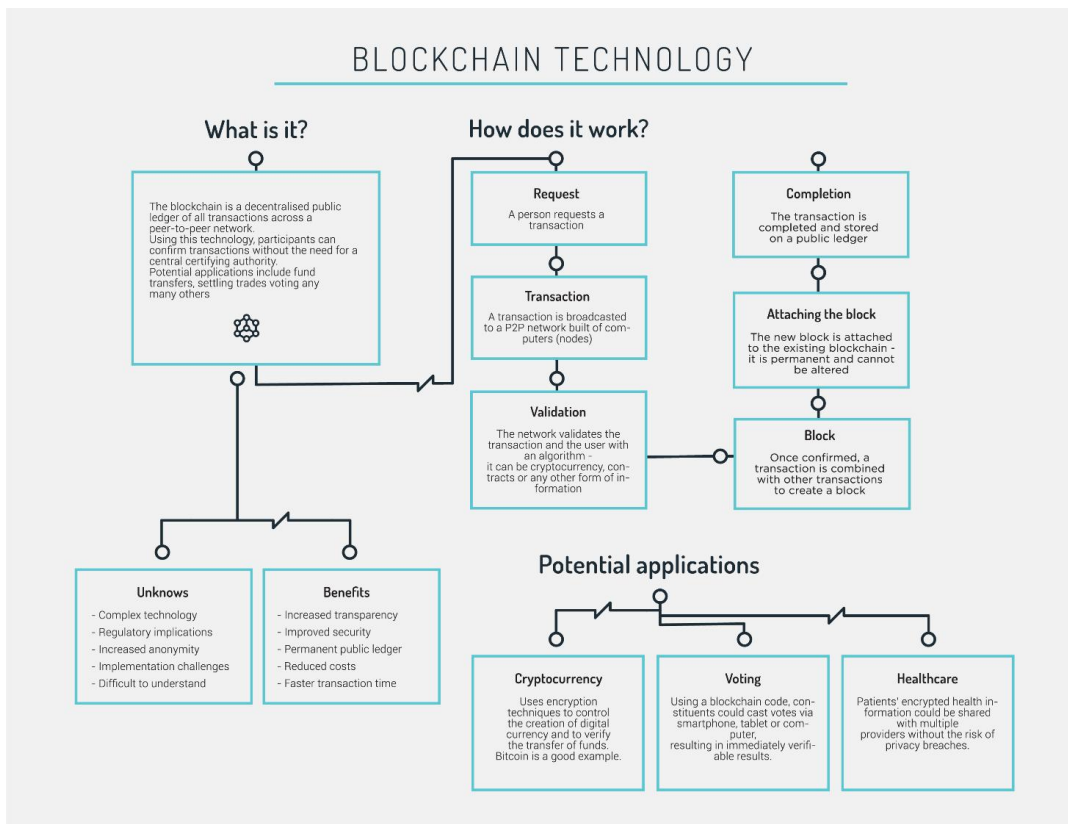
At the data level, the data source, quality and privacy in the field of new energy are all urgent problems to be solved. The intelligent contract in the block chain can realize the privacy protection of data providers and users through data physical isolation, when training data do not know where data location, also cannot resell the data to others, and the training model is decentralized, not on their own server training, finally can only see the trained data model; in the computing power level, such as GPU new energy chip, update operation is very fast, may improve the efficiency of 5-10 times every year.

On the one hand, new energy high-performance servers are very expensive, on the other hand, the server update reverse operation is very fast, which is a huge cost for all new energy companies; in the past 5 years, the global new energy financing amount has reached $25 billion. New energy Datacar uses decentralization and distributed technology in blockchain to perfectly solve the problem of computing power, which can reduce the application of new energy in the cost of computing power by 70%.

## 6.1 Digital asset storage of new energy Datacar

New energy Datacar through a number of institutions to participate in the accounting, so that members can reach a consensus through mutual trust with multiple centers. The data of new energy Datacar only allows the member nodes in the system to read, write and send transactions, and jointly record the transaction data, ensuring the security of the data on the chain and user privacy.
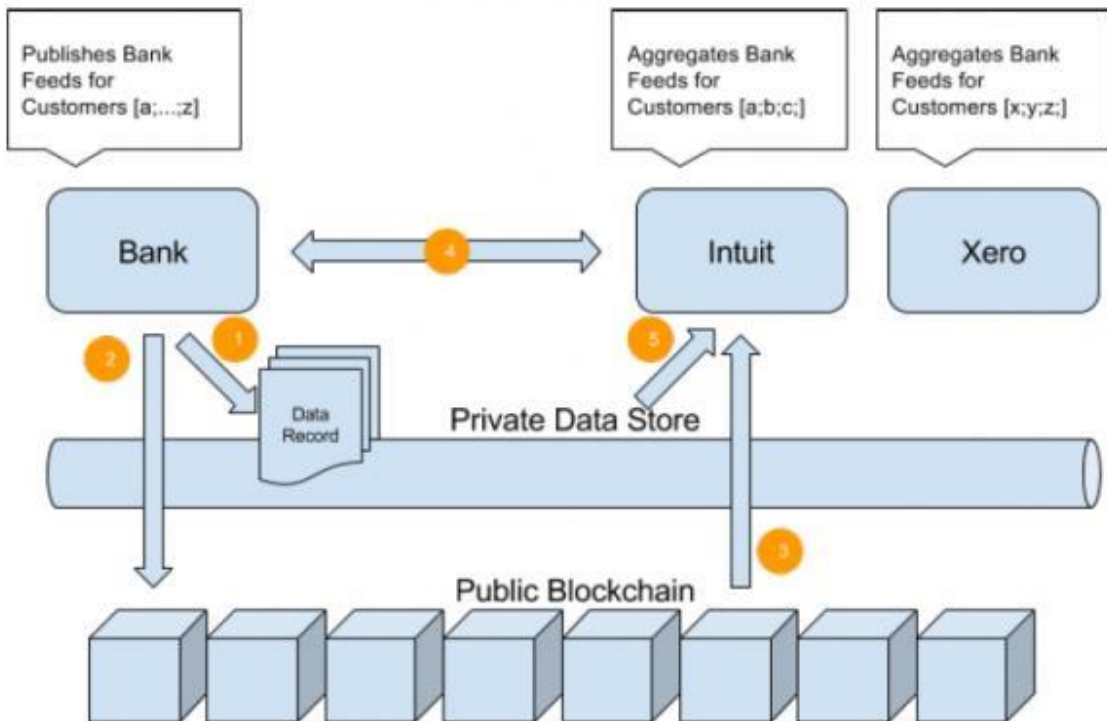
As a basic component to support distributed business, new energy Datacar can better meet the multi-party peer-to-peer cooperation and compliance in distributed business

Orderly development requirements. For example, new energy Datacar will be more suitable for the traceability and data recording of new energy platforms, while new energy Datacar is also suitable for inter-organization transactions and settlement, similar to inter-bank transfer and payment. Using the form of new energy Datacar, we can build an internal ecosystem to greatly improve efficiency.

New energy Datacar has more advantages in high-performance, programmable design and privacy protection. It is considered as a "partially decentralized" or "multi-center" blockchain. New energy Datacar simplifies the number of nodes, which can make the operation of the system more efficient and lower cost. The number of transactions that can be confirmed in the organization time is very considerable, and it is easier to be implemented in real scenarios. In addition, the very important feature of new energy Datacar is node access control and safety standard support, to ensure certification access, formulate regulatory rules, in line with regulatory requirements, and improve the transaction speed on the basis of credible security.

## 6.2 New energy Datacar technology solutions

New energy Datacar technology solutions mainly refer to the expansion on the basis of the underlying platform, the purpose is to facilitate developers to develop products and applications based on new energy Datacar technology, or service providers directly provide customers with solutions for specific business scenarios.

Based on the new energy Datacar book trusted record, based on the timing center of credible time, based on digital credentials, based on digital signature credible behavior, credible relationship based on wisdom contract, with new energy Datacar technology anchor build multidimensional digital network society, and for the spectrum in the ecological partners provide existence proof, integrity, identification, time stamp, data relationship certificate and certificate registration circulation, etc. At the same time, it will cooperate with all partners to register digital identity, trusted data and digital vouchers reliably, and provide information on existence, integrity, identity, time stamp, data relationship and voucher registration to the cooperative manufacturers who call these information. This information is verifiable, auditable, traceable, and cannot be tampered with.
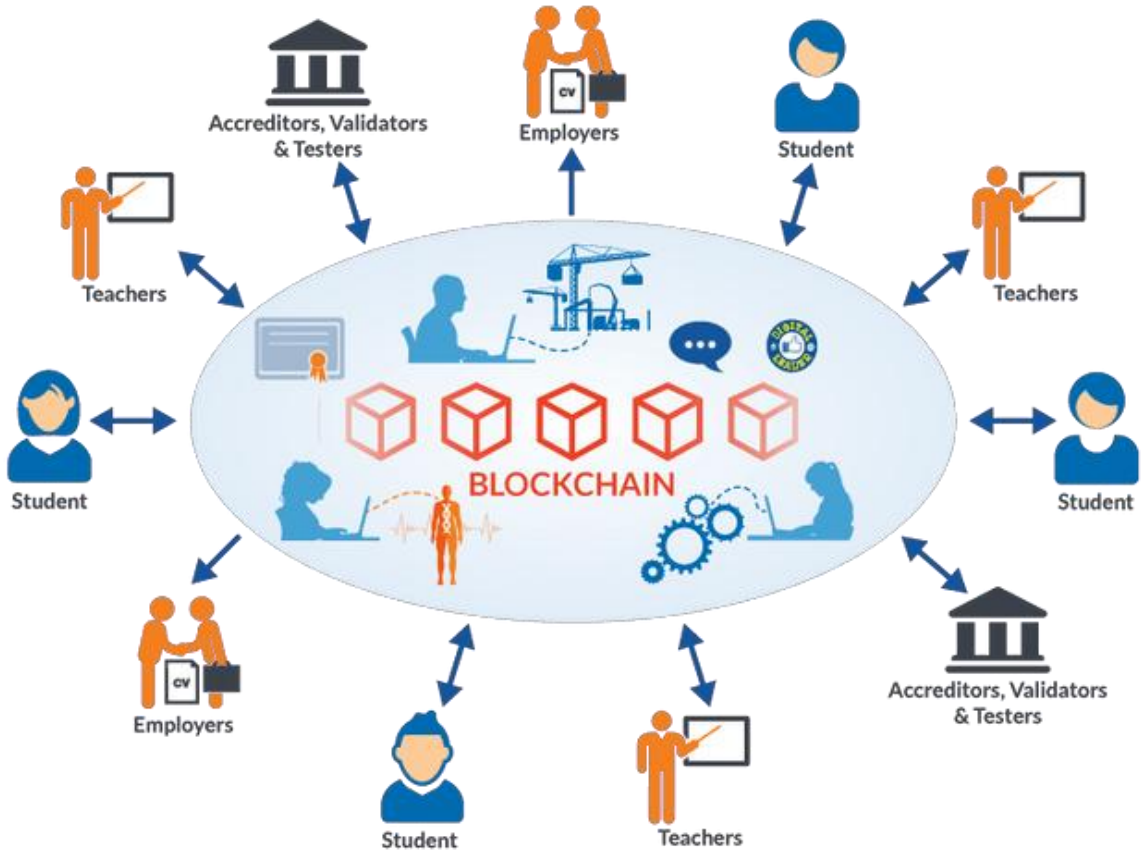
 The services provided by spectrum not only include information data registration and certification, but also can be widely used in many cooperation scenarios, realizing the interaction between various elements of new energy Datacar, such as charging pile, battery, solar energy and other data; providing convenient and safe information service and technical support for process reengineering for new energy applications.

New energy Datacar hardware manufacturing is the core of the chip, in the case of the force difficulty to ascend, competition accounting also experienced the earliest from the personal computer CPU (CPU) accounting, to the GPU (independent graphics card) accounting, to the birth of professional mining machine, and professional mining machine from FPGA (programming design brake array) transition to ASIC (special integrated circuit), etc. New energy Datacar hardware manufacturing is booming, driven by the increasing difficulty of computing power, and the computing capacity of wafers is constantly improving. It is the cornerstone of the development of the whole new energy Datacar industry. At the same time, increased computing power has driving other areas.

# 7. New energy Datacar application scenarios

The application of blockchain technology can not only improve the safety performance of new energy vehicles themselves, but also bring more convenient experience for car owners. According to the understanding, new energy vehicles with blockchain technology can be unlocked in 1.6 seconds through mobile apps, six times faster than before. At the same time, the security of the blockchain can further guarantee the security of the remote unlocking of the vehicle, while its transparency can ensure that the records of the vehicle during the operation can be viewed at any time and cannot be modified

## 7.1 Unlock the vehicle

Using blockchain to help car owners unlock their vehicles is one of the research priorities of new energy Datacar. The researchers added the blockchain to the test car, where owners can communicate directly through the app, and their instructions no longer need to be sent through the partner vendor's server. Greatly accelerated the response time of the vehicle. When the owner used the app to unlock the vehicle, the vehicle took only 1.6 seconds to execute commands, which was six times faster. Datacar The blockchain system also allows owners to allow others to temporarily use their vehicles. It can also use the app to remotely unlock the car, allowing people allowed to temporarily use the car to pick up items inside. They can even authorize delivery companies (such as UPS) to unlock cars and leave packages in their suitcases. Such an authorization is risky today, because the instruction needs to be executed through a specific server. If someone breaks into the server, they can unlock the car without permission. For a secure, decentralized blockchain, this is not a problem.

## 7.2 Payment for car charging charges and repayment of loans

Car owners can pay for the charging fee of the new energy vehicles through the new energy Datacar. Each time you charge the car, the action triggers a smart contract on the blockchain, taking the appropriate money from the owner's account and then transferring it to the charging station. Financial applications can also be extended to buy the car itself. Create a smart contract that pays the car on the first day of the month. The car blockchain will record the balance and stop paying once it reaches zero. Monthly parking fees, insurance, or other financial transactions involving vehicles can also use similar technologies.

### 7.3 Optimize the autonomous driving system

When a self-driving car steps on its trip, the new energy Datacar records its travel data. The data can include a variety of information, such as information about regional weather conditions, common traffic patterns, etc. Other vehicles in the network can also access this information and may require hundreds of millions of kilometers of human driving data to develop safe and reliable self-driving vehicles. The new energy Datacar can help vehicle owners, fleet managers and manufacturers collect data to optimize the new energy vehicle driving system.

### 7.4 Ensure that the vehicle data meets the specifications

Use the new energy Datacar to ensure the source of battery elements for the car being driven and to check that the battery elements meet the car specifications. This is the function of the new energy Datacar to be developed soon. By checking the data on the chain, we can clearly inquire about the various data quota of new energy vehicles, which has a full guarantee for safe driving.

### 7.5 Encourage environmentally friendly driving

Sharing driving data through special apps also allows drivers to earn new energy Datacar. The virtual currencies are deposited into the driver's account, and each transaction has a new energy Datacar record. With enough chains, drivers are eligible for prizes, such as participating in various world-class events or winning tickets. This inspires drivers to drive cars with more environmentally friendly pipes.

### 7.6 Encourage common vehicle ownership

With the new energy Datacar, any group of people can share the ownership of the car. For example, they can own 10 cars or rely on other vehicles, rather than everyone having to own their own car. When needed, they can access the vehicle through the on-chain data provided by the new energy Datacar, and the new energy Datacar will also record the activity of each vehicle. The system will automatically pay on the basis that all car owners agree to. The owner or driver spreads the cost per kilometer into the shared account, or pays a percentage of the car cost each month, depending on how often the car is used. When self-driving cars become the norm later on, owners can even use new energy Datacar systems or similar pipelines to manage their cars. You just need to add each car to the blockchain and then authorize users to request use and pay through the app

# 8. New energy Datacar development prospects

In the process of seeking the balance between economy and energy, new energy has become the key of clean, less pollution and renewable for the global development of low-carbon and environmentally friendly economy, the improvement of energy structure and the promotion of sustainable economic and social development.

"New energy Datacar + new energy" will be a "green wisdom" manufacturing revolution. New energy Datacar can provide a "brain" for the use of new energy, and new energy can provide hands and feet for the new energy Datacar landing ", even with wings."New energy Datacar + new energy" has a broad application prospect. As the practitioners of "green and intelligent manufacturing", automobile enterprises should not only realize intelligence, but also realize the transformation of clean energy industry.

It is expected that the total number of new energy vehicles is planned to reach hundreds of millions, and the market prospect is very broad. The combination of new energy vehicles with electricity is a large load, which is not only a challenge, but also an opportunity. Under the dual pressure of energy crisis and environmental crisis, the distributed energy of new energy Datacar is just in line with the needs of the development of The Times.

In the future, the new energy Datacar will also carry out more extensive research and development and landing application in the research and development of unmanned driving. For example, the network signals required to be connected are centralized and there is a risk of being attacked. The new energy Datacar can make the signals accepted by driverless vehicles safer, including the connection between vehicles, which will become more safe and efficient because of the intervention of new energy Datacar. In addition, new energy Datacar can also be applied in new energy vehicles, total automobiles, online ride-hailing, auto finance, auto insurance, second-hand cars and other fields. Car companies will also gradually generate new energy points and trade. In order to ensure the safety of transactions, some new energy vehicle enterprises will consider ensuring the safety of the points through new energy Datacar.

For common vehicles and online ride-hailing, new energy Datacar can safely store and integrate users' online transaction information and credit evaluation, making it easier for both parties to establish a trust relationship, so as to optimize the transaction process, improve service quality and further guarantee travel safety. New energy Datacar reduces the possibility of mutual fraud through the decentralization of blockchain, enabling the two sides to complete the transaction on the basis of mutual benefit and mutual trust. In terms of auto finance, the new energy Datacar can also shorten the transaction settlement time, improve the process efficiency, and ensure the safety. Therefore, the new energy Datacar is about to face a market with unpredictable potential and create more commercial wealth.

In the subsequent development process, the new energy Datacar (NECC) in the new energy industry will be more determined. With the support of blockchain technology, New Energy Datacar (NECC) will gradually penetrate into solar energy, wind energy, geothermal energy, biological intelligence, ocean energy and other industries, and cooperate with world-class energy engineering laboratories to promote new energy products that meet the market demand and serve all mankind. At present, new energy Datacar (NECC) has achieved fruitful results in solar water pump technology, wind power generation technology, geothermal heating technology and other new energy technology

# 9.risk analysis

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# 10.disclaimer

In addition to the risks mentioned in this white paper, there are also risks that the founding teams have not mentioned or have not anticipated. In addition, other risks may arise suddenly, or as a pipeline of multiple combinations of already mentioned risks. Participants are requested to fully understand the team background, know the overall framework and thinking of the project, and participate rationally.

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