

WHITE PAPER

Hybrid Electric Vehicle Coin: HEVC

2022.05.04



HYBRID ELECTRIC VEHICLE COIN WHITE PAPER

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Background Proposal

1. The fast-growing EV (electric vehicle) market

The continuous growth of the electric vehicle market over the past two years is expected to continue in the 2020s, and since the earnings announcement at the beginning of last year, the gap in the growth rate of electric vehicle sales by region has become very clear. For example, despite the short-term impact of COVID-19, it suggests hopeful prospects. The sales volume of BEV (Battery Electric Vehicle) and PHEV(Plug-in hybrid electric vehicle) exceeded 2 million units in 2019, and electric vehicles accounted for 2.5% of the total new car sales. In 2019, BEV's accounted for 74% of global EV sales, which is a 6% increase compared to 2018. This shift has been accelerated by tightening carbon emission standards in Europe and urging automakers to produce and sell zero-emission vehicles. In addition, the main factor is that the BEV market in China has grown faster than other countries.



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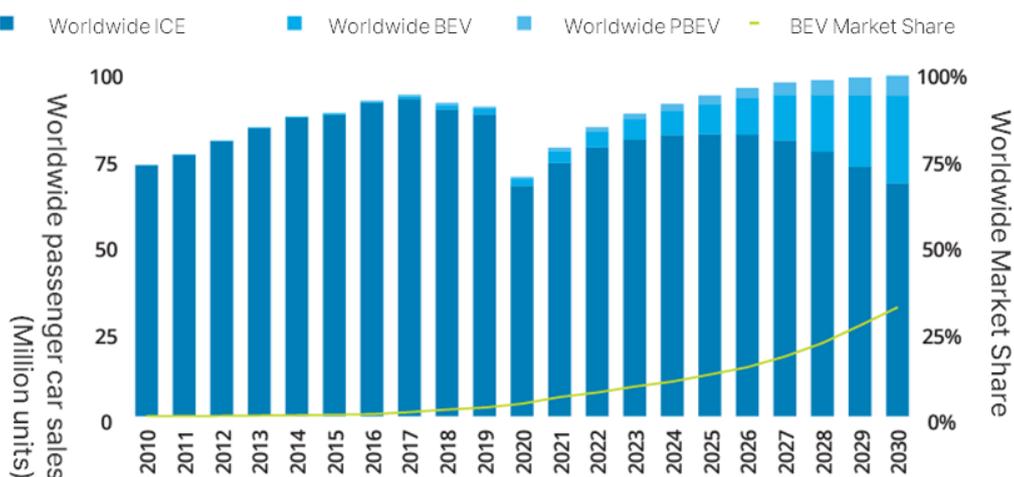
2. 2030 Electric Vehicle Market Forecast

Based on the development status of the electric vehicle market, an index analysis was conducted to predict the next 10 years of the electric vehicle market. BEV sales are already ahead of PHEV worldwide, and BEV is expected to account for 81% (25.3 million units) of new electric vehicles by 2030. On the other hand, PHEV sales are expected to reach only 5.8 million units in 2030.

Recovering from COVID-19 will lead to an increase in sales of internal combustion engine vehicles (81.7 million units) through 2025, but the market share is expected to gradually decrease thereafter.

The global electric vehicle market is expected to grow at a compound annual growth rate (CAGR) of 29% over the next 10 years. The total sales of electric vehicles in 2020 are expected to increase to 2.5 million units, 11.2 million units in 2025, and 31.1 million units in 2030. The EV market share is expected to reach about 32% of new car sales. Annual car sales are unlikely to return to pre-COVID-19 levels until 2024. This slow recovery is expected to be a result of slowing sales of internal combustion engine vehicles.

Annual global passenger and light vehicle sales forecast through 2030



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The electric vehicle market will continue to remain positive as the recovery from COVID-19 progresses, and in the near term, it will gain a significant share of the market. By 2030, China is expected to account for 49% of the global EV market, followed by Europe with 27% and the United States with 14%. As such, electric vehicles have come closer to our lives and deeper in a short period of time. It is establishing itself as a paradigm, not that we can reject just because we don't like it.

3. The future of electric vehicles and autonomous driving vehicles

In a 2014 report by Inventivio, "Autonomous Driving Vehicles: Breakthroughs in Electric Vehicles," electric vehicles are relatively easy to control, easy to diagnose, and suitable for car sharing, so they are more destructive in the market when connected to autonomous driving. At CES 2015, Ford announced the conclusion that electric vehicles are suitable for car sharing in Ford's future mobility experiments conducted in various countries around the world. Compared to an engine car that has to stop at a gas station and finish refueling, an electric vehicle that can be parked in a parking lot and plugged into a charger is better in usability. Of course, when wireless charging is added, better usability can be provided.

In Rethink X's 2017 report, 'Rethinking Transportation 2020-2030', it was revealed that an average of one hour of driving time can be usefully used as users are freed from driving through autonomous driving. If you want to read a book or view a smartphone in the car, an electric vehicle with relatively little vibration is essential. As such, if the contents of various reports are summarized, about six advantages of self-driving electric vehicles can be derived.

First, electric vehicles are easier to control than conventional internal combustion engine vehicles. Electric vehicles that control the rotation of the motor are easier and faster to control for autonomous driving than when the engine is controlled. The fact that it can be controlled quickly without time delay is also a big advantage.

Second, the design of autonomous vehicles becomes easier. Electric vehicles with far fewer parts

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enable the design of a variety of customized vehicles considering user usability.

Third, it is advantageous for fault diagnosis. In an autonomous vehicle, real-time remote fault diagnosis is essential because the user becomes a passenger rather than a driver. Electric vehicles, which mainly consist of electronic components, are more advantageous than internal combustion engines in-vehicle data analysis and fault diagnosis through current and voltage.

Fourth, electric vehicles are much more advantageous in usability in autonomous vehicles because they have less vibration.

If you want to read a book, work on a computer, or watch a movie in the car, an electric vehicle is essential. Of course, in order to be able to live in autonomous vehicles, comprehensive technology development for powertrains, suspensions, tires, and roads is needed in the future.

Fifth, electric vehicles are more suitable for sharing vehicles. Existing vehicles have the inconvenience of having to go to a gas station to refuel when sharing a vehicle. For electric vehicles, you can install a charger in the parking lot and connect the charger after parking. This increases space usability and user usability.

Sixth, usability can be improved through wireless charging. When wireless charging of autonomous vehicles becomes possible, users will no longer have to worry about refueling or using chargers. Because the vehicle can be charged and moved by itself, usability can be greatly improved.

4. Coin production using electric vehicles

Recently, the story of a user who mined Bitcoin using a Tesla electric vehicle is a hot topic.

By connecting a computer to a Tesla, the conditions were created to mine coins. Considering the cost of charging electricity and the depreciation of automobiles, people have conflicting opinions about how much coins should be mined, saying that this behavior is very inefficient and a groundbreaking idea. Whatever the reason, our lives will no longer rely on electric vehicles as the only means of transportation. In other words, coin mining is one of the functions of production

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activities that directly help economic activity.

The coin mining in electric vehicles, how interesting it is, and if electric vehicles themselves do it, the situation will be very different from what we talked about earlier, and our interests will also change.

Therefore, we would like to explain the coin mining model using electric vehicles that will decorate a new history.

Problem Solving

1. Smart Contract

The advantages of blockchain come from a decentralized system that reduces time and conflicts as there is no need for an intermediary between participating stakeholders. However, there is a problem that it is difficult to add more value than a distributed database only with a transparent, consensus-recorded, and shared ledger. There is a need for a way to implement business logic based on shared data.

In 1994, Nick Szabo, a computer scientist, forensic philosopher, and cryptographer, realized that a decentralized ledger could be used for intelligent contracts. This conceptual contract, called Smart Contract, was converted into computer code, stored, and replicated to the system to create a theoretical foundation for performing business logic according to conditions on multiple computers that make up the blockchain network. Smart contracts provide a transparent and collision-free means of exchanging money, assets, and stocks without intermediaries in the transaction process such as remittance, delivery of goods, and service performance.

Smart contracts operate in a way business logic existing in the form of code is automatically performed when certain terms of transaction agreed between the two are established and the final performance result is determined by agreement. Therefore, it provides greater security than traditional transaction methods and reduces transaction costs due to the absence of an intermediary.

If the blockchain is an unchangeable distributed database in the form of NoSQL that stores the ledger, smart contracts can be thought of as a serverless application that operates according to the transaction contents recorded in the ledger.

In short, the way smart contracts operate is like vending machines. If you put as much cryptocurrency as you need into your smart contract, escrow, homeownership, and driver's license will come into your account. Not only are all rules and penalties defined in advance by the smart contract, but enforcement is also made by the smart contract.

A smart contract can operate alone, but any number of smart contracts can be implemented together with other smart contracts. They can be set in a way that relies on each other. For example, when one particular smart contract is successfully completed, another smart contract may be started. Theoretically, the entire system and organization could run entirely on smart contracts. To some extent, this has already been implemented in various cryptocurrency systems. In this case, since all laws are defined in advance, the network itself can function autonomously and independently.

Advantages of smart contracts

1) **Autonomy:** Smart contracts do not require third-party intermediaries, so they basically give you full control over the contract.

2) **Trust:** No one can steal or lose documents. This is because documents are stored securely on a shared ledger that is encrypted and secured. Moreover, you don't need to trust the other person, and you don't need to expect them to trust you either. This is because the fair system of smart contracts essentially replaces trust.

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3) **Cost Savings:** Thanks to smart contracts, there is no need for notaries, real estate agents, advisors, applicants, and numerous other intermediaries. Furthermore, there is no need to pay ridiculously high fees related to their services.

4) **Safety:** A properly implemented smart contract is extremely difficult to hack. The perfect environment for smart contracts is protected by complex encryption, so it keeps users' documents safe.

5) **Efficiency:** The use of smart contracts can save a lot of time that is normally wasted in manually processing mountain piles of documents or sending or transporting them to a specific location.

2. Blockchain Technology Key Features

Shared Ledger	Privacy
 <ul style="list-style-type: none"> • All transaction parties participating in the network can view transaction information in the shared ledger • Prevents risk of default, tampering and error by sharing the same information 	 <ul style="list-style-type: none"> • Only participants with permission to use the network can view transaction information • Improve transaction stability security such as personal information protection and blocking malicious outsiders
Smart Contract	Consensus
 <ul style="list-style-type: none"> • Automate contract agreement and contract execution over a computer network • Streamline contract procedures by automating massive information engagement process 	 <ul style="list-style-type: none"> • Prior to the execution of the contract, all participants on the terms and conditions of the contract is required • The contract is automatically executed only when the conditions of the contract are mutually agreed upon

HEVC: Hybrid Electric Vehicle Coin

1. HEVC project background

With the boom of the fourth industrial revolution, the automobile industry is becoming a hot topic, and the automobile industry, led by Tesla, is entering the path of the fourth industrial revolution.

The automobile industry is changing in the order of the spread of AI technology - autonomous vehicles - electric vehicles - battery recycling, which represents the pursuit of environment and convenience.

We intend to provide convenient services by incorporating blockchain into the above industry and accelerate the 4th industrial revolution in automobiles.

2. Characteristics of HEVC

HEVC will be an electric vehicle that mines cryptocurrency by incorporating blockchain into the automobile industry. In fact, Tesla CEO Elon Musk said, "It is not impossible to mine virtual assets using vehicle computers built into Tesla electric vehicles," and Tesla electric vehicles such as Model 3 and Model S have built-in vehicle computers with strong computational performance.

In addition, solar roofs can be used to install panels on the roofs of automobiles and use solar energy, which is renewable energy, to contribute to electric power. In that case, HEVC will use three types of energy. It uses fuel, electricity, and sunlight to drive using the charged battery power during the day and to mine cryptocurrency while stopping in a parking lot at night. Because GPU.CPU is installed in the car, it is possible to mine designated cryptocurrencies other than HEVC.

3. HEVC's role

1) Transfer of vehicle ownership (P2P transaction)

Transferring ownership from a seller to a buyer is a very complex process.

In the case of used cars, since there are various asset movement paths, a lot of effort is required to manage them. Accordingly, it has a structure in which a considerable number of middlemen have no choice but to intervene.

Ownership is information that must be shared by various parties, such as manufacturers, insurance companies, sales offices, registration offices, and mechanics, so if it is stored in a decentralized database that cannot be changed using blockchain, it can reduce the time for authentication, verification, and transfer.

2) Insurance Compensation Processing

Current insurance claims processing requires complex paperwork, submission, and review.

When such information is stored in a blockchain (distributed ledger), the same information can be shared among insurance companies, repair shops, hospitals, and administrative agencies, thereby increasing transparency.

3) Personal Adaptive Platform

The DID document and the documents 1) 2) above are converted to NFT and stored on the individual platform, and the documents can be easily sent when performing P2P transactions. Individuals can store HEVC wallets on the platform and use HEVC platform services.

4) HEVC and Cryptocurrency Mining in Vehicles

Mining uses electricity and solar energy.

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The energy accumulated in the vehicle can be mined in conjunction with CPUs and GPUs inside the vehicle, can be mined when not driving, and real-time mining information can be checked through applications linked to the platform.

4. HEVC Distribution and Liquidity

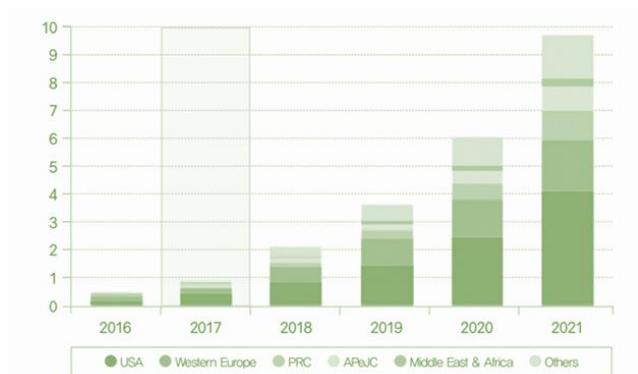
- HEVC can be obtained through mining, and when mining is completed, it can be received in HEVC's personal wallet.
- Listed on the Exchange: Listed HEVC tokens on the exchange.
- Swap system: HEVC can be exchanged for other cryptocurrencies. (Other cryptocurrencies can be exchanged for HEVC)
- Fee: ① When using the Swap system ② When transferring HEVC

Blockchain Investment

In 2018, the number of global companies investing in blockchain is expected to reach \$2.1 billion, doubling from 2017. By country, the US is projected to be the largest spender, accounting for 40% of global spending. It is followed by Western Europe, China, and the Asia Pacific (excluding Japan). By 2021, spending on blockchain is projected to nearly quadruple, reaching \$9.7 billion.

In the case of the United States, which is leading the blockchain technology, financial services and manufacturing are the industries that are expected to spend the most on blockchains. The annual growth rate is expected to exceed 83%. In the US, the financial services sector is expected to spend \$754 million in 2018, driven by the adoption of the financial industry. In addition, the retail and services market will spend \$510 million, and the manufacturing and resource industries will spend \$410 million on blockchain

By market segment, IT services and business services accounted for approximately 75% of blockchain spending in 2018. Excluding services, it was observed that the blockchain platform SW is the most active in investment and the fastest-growing, along with security SW.



(Unit: USD 1 billion) (Sources: IDC Worldwide Semiannual Blockchain Spending Guide, 2017 H1)

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Blockchain technology can 1) clearly guarantee ownership of digital content, 2) create a structure that can be compensated based on quality rather than quantity based on cryptocurrency, 3) and allow content compensation to be received in a direct form rather than an indirect form such as advertisement. For example, when a user uploads specific information, the cryptocurrency is paid as a reward for the information uploaded by the system according to the criteria, and the platform can be created so that the received cryptocurrency can be used to view other information.

1) Binance Smart Chain (BSC)

Binance Smart Chain is a high-performance decentralized blockchain that greatly expands the usability of the existing Binance Chain. In addition to BNB staking, it can work with the Ethereum Virtual Machine (EVM) to support Ethereum-based tools and DApp. DApp can also be run on smart chains. The gas cost, which is a problem with Ethereum, is 92% cheaper than Ethereum, and the data processing speed is also about 4 times faster.

2) Binance Smart Chain Mechanism

Binance Smart Chain achieves a ~3 second block time through a proof-of-stake consensus algorithm. More precisely, it uses a so-called Proof of Authority (or Proof of Staked Authority, PoSA), where participants can stake BNB to become validators. When they present a valid block, they receive a transaction fee included in the transaction.

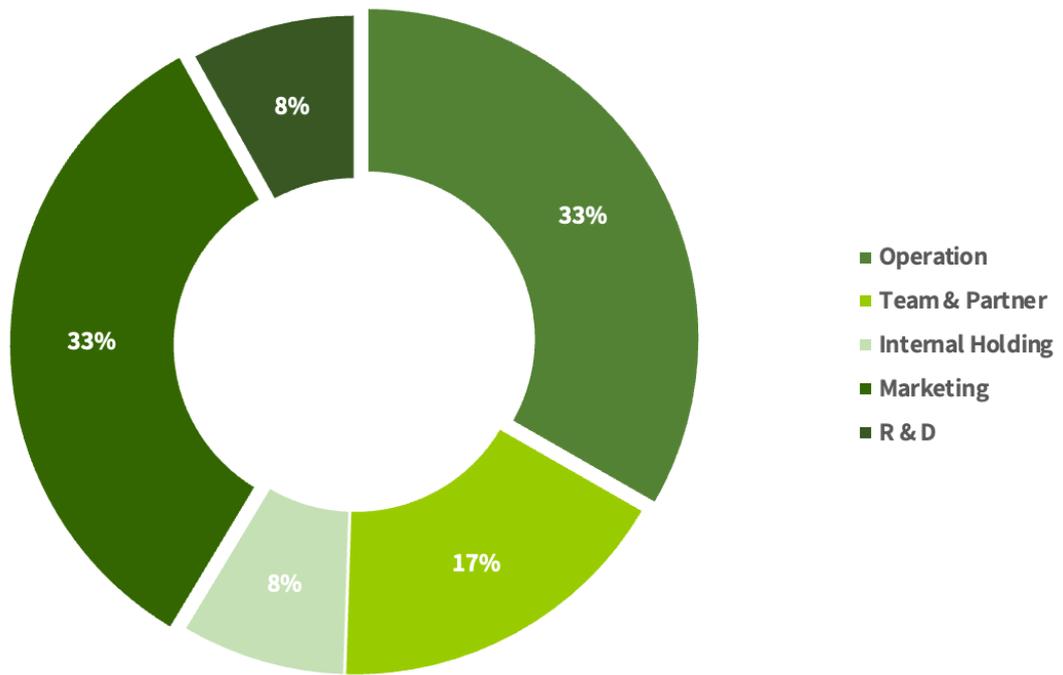
One major thing is that, unlike many other protocols, there is no block subsidy for newly created BNBs, as there is no inflation in BNB. On the other hand, as the Binance team regularly burns coins, the BNB supply decreases over time.

Binance Smart Chain was conceived as a system to supplement it while being independent of the existing Binance chain. A dual chain structure is being used, and users can freely transfer assets between blockchains. Through this, it is possible to build a powerful decentralized app on the Binance smart chain while using the fast-trading function on the Binance chain.

Coin Distribution

Token Name : HEVC (Hybrid Electric Vehicle Coin),

Token Cap : Total Issuance 3 billion



Token	Operation	33%	1,000,000,000
Distribution	Team & Partner	17%	500,000,000
Information	Internal Holding	8%	250,000,000
	Marketing	33%	1,000,000,000
	R & D	8%	250,000,000
Total Issuance		100%	3,000,000,000

Roadmap

2022. 2Quarter

- Project team composition
- Producing the project website and WHITE PAPER
- Issuance of HEVC (Scheduled)

2022. 3Quarter

- HEVC platform design complemented (Scheduled)
- HEVC platform development in progress

2022. 4Quarter

- HEVC platform development complement (Scheduled)

2023. 1Quarter

- Completed construction HEVC platform ecosystem (Scheduled)
- Completed HEVC distribution and liquidity establishment (Scheduled)

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Before making decisions on investments and further actions, please contact legal, finance, and tax experts.

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