



New SIORA Start

White Paper Rev.1.1.1

2026-04-01

What is SIORA?

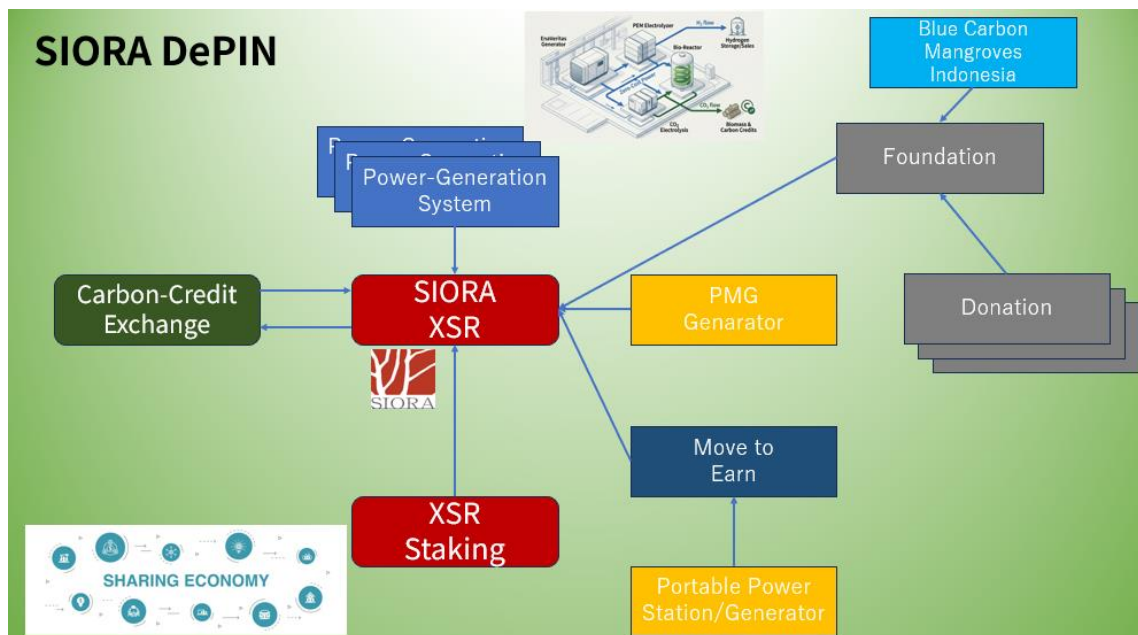
The SIORA Project is a cryptocurrency with a long track record, working to reduce carbon dioxide emissions since 2018. SIORA's core competencies span multiple elements, including IoT devices such as wireless charging, ultra-high-efficiency power generation equipment, woody biomass, networks and blockchain, and integration with carbon credits. Through the widespread adoption of these technologies, SIORA works to reduce CO2 emissions and, ultimately, to improve the global environment.

DePIN × Carbon Credits

DePIN (Decentralized Physical Infrastructure Network) is a token-powered sharing economy. With SIORA, users can earn rewards by providing CO2 reduction data from the electricity they generate. Beyond power generation, users can also earn rewards by providing environmental data such as woody biomass and carbon credit data. In addition, carbon credit users and others can use SIORA tokens to exchange them for carbon credits. It is a noble initiative that lets users earn rewards while also helping to solve global environmental problems.

SIORA has long promoted a new philosophy known as the token economy, and has now relaunched as a DePIN by incorporating carbon credits.

SIORA will increase liquidity through token incentives in the form of DePIN rewards, and will establish a firm position in the global market through technological innovation, led by ultra-high-efficiency power generation technology, and through improvement of the global environment.



Benefits of Holding SIORA

Holding this historic SIORA coin offers the following benefits.

(1) Earn SIORA

Purchasing and using eco-friendly woody biomass earns you SIORA, and you contribute to protecting the global environment by helping woody biomass spread.

(2) Use SIORA

SIORA is a utility token, so it can be used to address all kinds of environmental problems.

(3) Social Contribution

Investing in SIORA spreads eco-friendly technologies such as ultra-high-efficiency power generation and woody biomass, contributing directly to CO2 reduction.

(4) Investment

Because SIORA is listed on crypto-asset exchanges, holders can expect returns on crypto assets in addition to trading them.

(5) Carbon Credits

The CO2 emission reductions and avoided emissions achieved by installing power generation equipment can be certified and sold as "carbon credits."

As described above, holding SIORA lets you enjoy many benefits while contributing to CO2 reduction and to solving global environmental problems.

By purchasing SIORA, you can contribute to SDG 7, "Affordable and Clean Energy," advocated by the United Nations.

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Establishing a Firm Position in the Global Market through DePIN

I. Introduction

In recent years, generative AI has become a major topic, sparking an AI boom across industries. However, because AI requires enormous amounts of training data, it uses many semiconductors and consumes large amounts of electricity. Increased power consumption has a negative impact on the global environment.

For this reason, society needs to become environmentally friendly and curb global warming. The SIORA Project is an effort to solve these challenges and to advance both technological development and the global environment.

In short, through wireless charging, high-efficiency power generation, woody biomass and more, SIORA achieves low power consumption, technological innovation, and improvement of the global environment.

Relaunched as a DePIN

The SIORA Project announced its token economy in 2020, and has now relaunched as a DePIN by also incorporating carbon credits to help solve global warming. It has evolved from a token economy into a sharing economy and has been upgraded to be easier for users to use.

For example, by recording power data from the meters built into high-efficiency power generation equipment on the blockchain via the Helium network, SIORA achieves highly secure, low-cost wide-area communication.

Beyond power generation technology, users can also earn rewards by providing environmental data such as woody biomass and carbon credit data.

In other words, users can earn rewards in every aspect of their daily lives. Naturally, this means greater token liquidity. Users earn rewards and also contribute to improving the global environment. By spreading this DePIN model, SIORA will establish a firm position in the global market.

Overview of the SIORA Project

(1) Wireless Charging

The SIORA Project significantly improves the robustness of WPT products by adding proprietary circuits and microchips to Qi (pronounced "chee"), the global standard for wireless charging.

(2) High-Efficiency Power Generation and Blockchain Management via the Helium Network

In addition, power data from the meters built into high-efficiency power generation equipment is measured in real time and recorded on the blockchain via the Helium network, achieving highly secure, low-cost wide-area communication.

By adopting the Helium network in place of conventional 4G/Wi-Fi communication, SIORA achieves low-power, long-range communication, enabling monitoring even in locations with poor infrastructure. The monitored data is written to the blockchain (a distributed ledger). This prevents power generation and emission reduction records from being altered once recorded, and increases their credibility as proof of environmental value (such as non-fossil value). In turn, this leads to their use as carbon credits.

(3) Woody Biomass

Furthermore, SIORA will achieve improvement and commercialization through wood processing that utilizes woody biomass technology. Wood

and wireless charging are an excellent match. Our team has developed woody biomass technology that liquefies and solidifies wood chips. The liquefaction technology for lignocellulosic materials and the secondary molding technology for solidifying particle boards dramatically advance the use of wood as a resource for coffee shops, walls, tables, and more. These molded wood plates are processed from plates into tiles or blocks according to various market applications. As molded products that can be processed in many ways, they can be commercialized for diverse uses such as plant growth substrates.

Our team plans to embed WPT into these molded wood plates to bring wireless charging into practical use. At the same time, a distributed ledger system connected to WPT-based IoT via the blockchain will generate economic benefits from the issued SIORA tokens.

2. Problems Facing the Industry

The electrical industry faces three major challenges.

First, although many companies have tried to use Qi technology for WPT applications, certain problems remain. Specifically, issues such as "positioning" and alignment on the charging pad, development issues, power limitations, and heat generation and noise have yet to be solved.

Second is the efficiency of generators. Many generators have low efficiency and have not achieved high efficiency.

Third, as a result of the above and other factors, the environment is adversely affected and large amounts of CO₂ are emitted.

3. Solutions to the Challenges

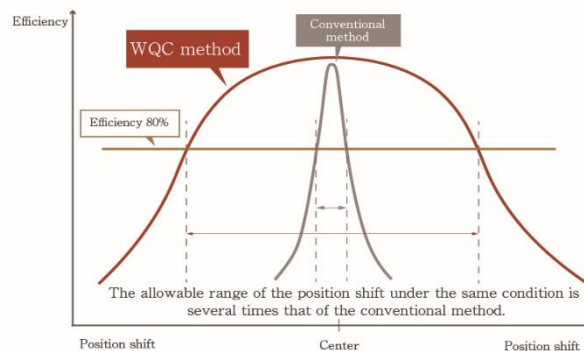
3.1 Wireless Power Transfer

Technology applied to small electronic devices such as mobile phones:

SIORA's technology has been able to address the above problems by dramatically improving the user experience and providing more flexible and efficient wireless charging. As a result, users no longer need to actively manage their mobile phone batteries.

For example, a user's mobile phone appears to charge automatically without any user intervention.

Furthermore, users of the wireless charging we have developed no longer need to carry charging cords or mobile batteries, and can now charge electronic devices even when the charging mat (transmitting coil) and the attached receiving coil are not perfectly aligned. This has been made possible by our proprietary technology.



The figure above compares the "phase-lock" system with a conventional system. SIORA's technology detects changes in the resonant frequency inherent to the receiving coil and synchronizes both phases, enabling highly efficient power transfer even when there is misalignment (including gaps).

New method of wireless charging that eventually found a breakthrough
 – Resolved with WQC's technology (international patents) –

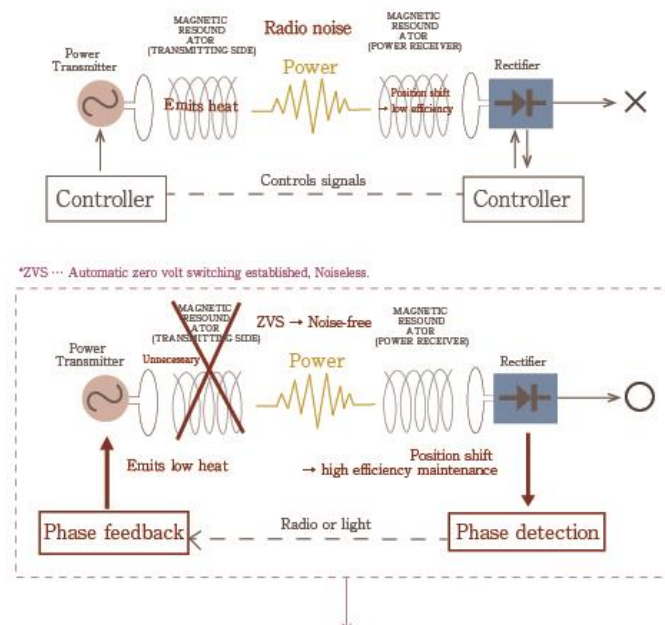
Modern MIT Field Resolution (2006)

Large companies around the world have declared their development around 2012, and problems have not been resolved by 2018



New method (2014)

WQC's international patents (applications of CCFL inverters for liquid crystal backlights) achieved position shift tolerance (robustness), low heat generation, and no noise



The image above is an example comparing SIORA's technology with competing technologies on the market.

Conventional technology: MIT magnetic resonance

Major companies around the world announced development starting around 2012, but problems such as reduced power efficiency (due to misalignment), heat generation, and radio noise remain unsolved to this day.

SIORA's Technology

SIORA's technology, on the other hand, solves the above problems and has achieved an international patent (application of CCFL inverters to LCD backlights), misalignment tolerance (robustness), low heat generation, noiseless operation, and more.

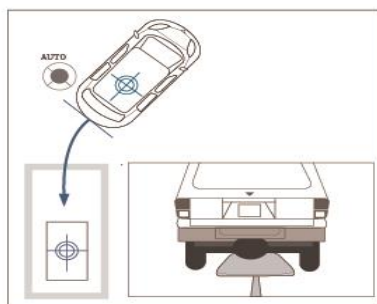
Comparing the two technologies above, SIORA's patented technology is distinguished by providing end users with a highly efficient, robust, safe, and noise-free solution.

Applying SIORA technology to EVs and HVs:

Differences Between Current and New Schemes

Existing scheme

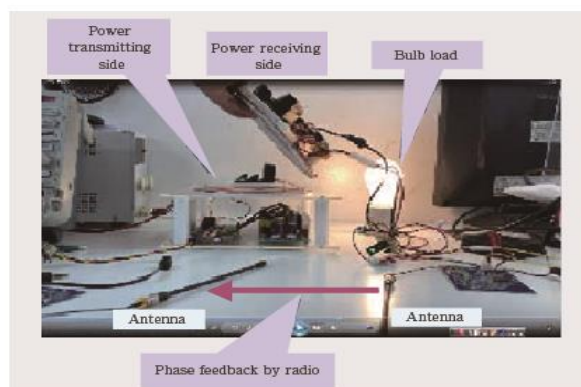
– By combining advanced parking assist with non-contact charging of EVs whose charging efficiency changes depending on parking position, the deviation of parking position is minimized.



It is necessary to pick up the cores of the power transmission/receiving coils so that the gap (upper and lower positions) is also constant.
→Difficult to spread

New method

– Even if the position is slightly shifted by synchronizing the phase of the power receiving and power transmitting coils, it is possible to charge with high efficiency even if the gap is not at a specified height, so that the power transmitting coils are not overheated or noise is not generated by the shift.



The image above shows how SIORA's technology is applied to electric vehicles (EVs) and how it compares with competing products on the market.

Existing technology:

In existing EVs that use wireless charging, charging efficiency varies depending on where the vehicle is parked.

This means that if the charging plate is not precisely aligned with the vehicle's position (i.e., the transmitting and receiving coils are not perfectly aligned), charging efficiency drops.

New method:

By synchronizing the phases of the receiving and transmitting coils, highly efficient charging is possible even with some misalignment or when the gap is not at the specified height. As a result, the transmitting coil does not overheat or generate noise due to speed changes.

As a result, electric vehicles are now charged automatically simply by entering the "charging area" of a parking lot using SIORA, without worrying about whether the "parking space" or "vehicle position" lines up exactly with the charging or power location.

3.2 Permanent Magnet Synchronous Motor

Our team has succeeded in developing an innovative technology that overturns conventional wisdom in motor engineering. It is a permanent magnet synchronous motor that eliminates 99% of cogging torque, achieving ultra-high efficiency and a compact size.



This ultra-high-efficiency motor has five features.

- Maximum motor efficiency of 99.9% (based on a 2.2 kW motor)
- 3 to 4 times the output compared with motors of the same frame size
- Can be started and operated with a general-purpose inverter
- Minimal motor vibration and noise
- Fast start and stop

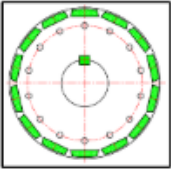
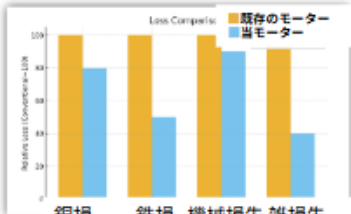
This is a major improvement over conventional technology.

	SIORA Team's New Technology	Conventional High-Spec Motor Technology
Maximum efficiency	99.9%+ *Exceeds 100% under certain conditions	Up to 99%; typically 90%
Cogging	Approx. 1%	Large
Size and weight	30%+ smaller than conventional	—
Vibration and noise	Small	Large
Heat generation	Small	Moderate
Cost	Same as or lower than conventional	—

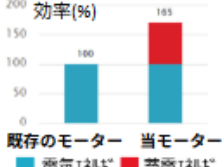
Scaling up output	Unlimited	Approx. 500 W max
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Motor Characteristics and Effects

■ モーター特性

コギントルク除去技術	独自のPMモーター構造	熱損失低減技術
回転子に挿入された永久磁石配列最適化によるモータ構造の改善により、追加のトルクベクトルを発生させる技術  鉄の棒を近づけたり、遠ざけたりするだけでローターが回転	回転子に挿入された永久磁石配列最適化によるモータ構造の改善により、追加のトルクベクトルを発生させる技術  回転子の位置に関係なくトルクベクトルが連続的に発生する極数とスロット数、ギャップの定数の発見	コギントルク除去により熱・鉄・機械電気低損失低減  Loss Comparison: 既存のモーター (Orange), 当モーター (Blue) 銅損 鉄損 機械損失 雑損失

■ モーター効果

効率最大化	出力最大化
回転磁界が作り出す機械的トルクのほか、回転子に挿入された永久磁石の磁力エネルギーが斥力として追加のトルクを発生させる 対比1.5倍以上増加  効率(%) 既存のモーター 当モーター 電気損失 蓄電損失	同一フレーム誘導モータの出力と比較すると、最大5倍の効果を示す。 出力比較： 同一フレーム基準-フレーム100L (誘導モータ出力：2.2kw) ↓ 当モータ出力：10kw

Examples of Developed Products

1 kW motor	5 kW motor	20 kW motor
		

4. SIORA's Solutions to the Challenges

SIORA can provide a solution to end users' power needs by supplying power to various devices and electrical equipment in a more flexible, efficient, and convenient way.

The team will also provide wireless services by linking to Dapps (decentralized applications) using the Katana chip, enabling an automated billing system for power services.

SIORA also runs on the Katana platform, which connects various blockchains (both public and private). This makes it possible to create synergies between new technologies such as blockchain and WPT.

In addition, SIORA can expand consumer choice by offering a variety of wireless power materials that can be applied to furniture, walls, and floors made of wood.

Until SIORA arrived, consumers' choices were limited to plastic materials and other materials that do not supply power wirelessly.

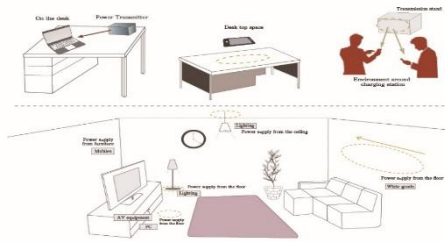
SIORA products are eco-friendly and made from 100% wood. As a result, all products are recyclable and reusable.

For this reason, SIORA products have been used at major events and activities in Japan, such as the Tokyo 2020 Olympics. This is just one of the results SIORA's potential has delivered.

4.1 Wireless Charging

SIORA's woody biomass technology has a wide range of use cases, including supplying power to sidewalks, roads, and highways, as well as restaurants, cafés, convenience stores, and home and office furniture.

With SIORA's technology, outlets are no longer needed to supply walls and rooms with the power required by various appliances. In addition, smartphones and laptops can be easily charged anywhere, including public cafés, without any wiring.



Furthermore, end users and consumers can experience SIORA's technology in the following use cases.

- Supplying power to devices such as smartphones and electric wheelchairs while walking or passing along sidewalks.
- Supplying power to EVs while driving on roads (or highways).
- Supplying power to various EVs, including electric motorcycles, while parked in the charging area of a parking lot.



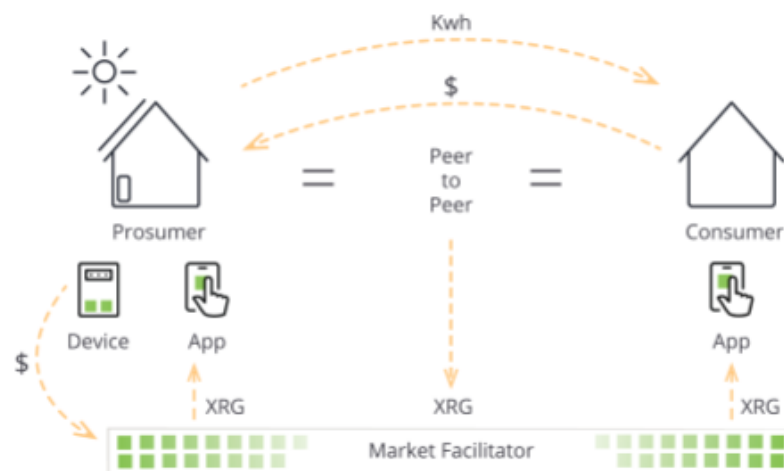


Figure 2 Peer-to-peer (P2P) energy use case

- Step 1:** John is a 'prosumer' with solar panels on his roof. He buys an Exergy compliant metering device.
- Step 2:** John downloads the mobile app that lets him join his local microgrid community. The app is enabled by his own XRG token, or by one provided for that purpose by an interested third party.
- Step 3:** John stakes XRG to his meter corresponding to his revenue capacity in order to join the local marketplace.
- Step 4:** John earns fiat currency for selling his power to his neighbors on the local market.
- Step 5:** His neighbor also downloads the app because she wants to buy power from John. She sets her budget for local renewable energy in the app and pays in fiat currency.

Participant	XRG usage	Fiat Usage	Incentive
Prosumer (selling services)	Stake XRG to a compliant hardware device in order to claim the profits from an asset in the marketplace.	Pay for a meter Pay for electricity Withdraw revenue	Prosumers are able to sell services—including local energy—into the marketplace
Consumer	Stake XRG to an account in the app to participate in the marketplace. No compatible hardware device is required.	Pay for electricity.	Consumers are able to buy a new product, local energy, and reduce network charges.

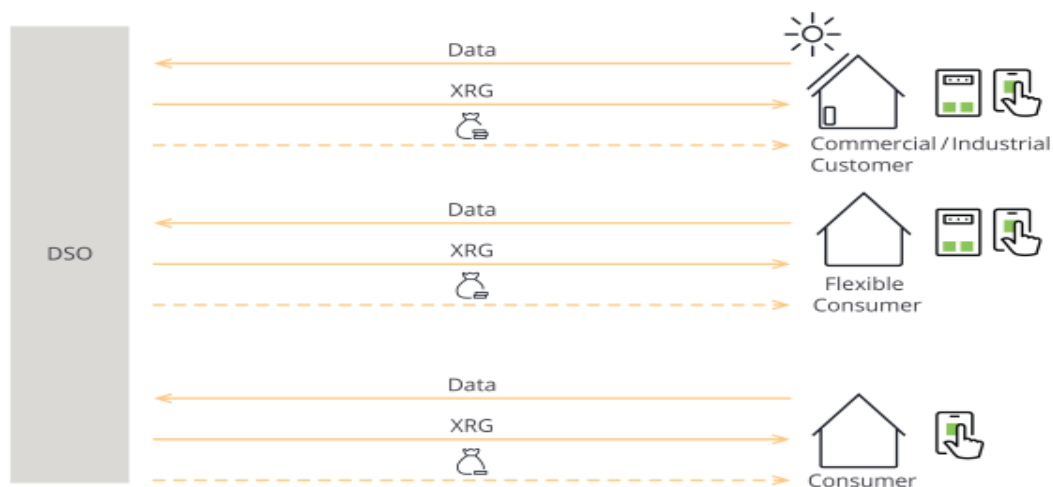


Figure 4 DSO use case

Step 1: DSO acquires XRG and stakes it to devices in a marketplace. This effectively pays the customers XRG in proportion to the value they will provide at three levels:

- Analog or 'dumb' data such as that from an electricity bill
- Connected or 'smart' data that is enabled by a smart meter or other device
- Responsive ability, that can control the energy use of on site assets (such as a building management and control system)

STEP 2: Customers are able to access and 'opt in' to the services offered via a mobile app

STEP 3: DSO gets the data

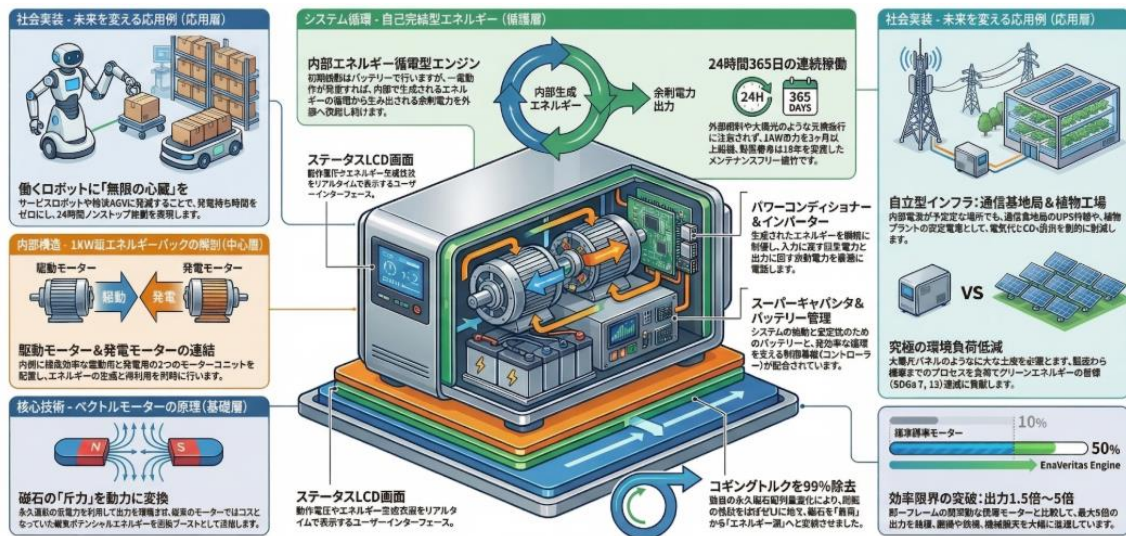
STEP 4: DSO either signals the service event via the app for behavioural responses, or self-executing contracts transact on behalf of the devices to trigger IoT control events.

STEP 5: Customer is paid in fiat currency per the service offered

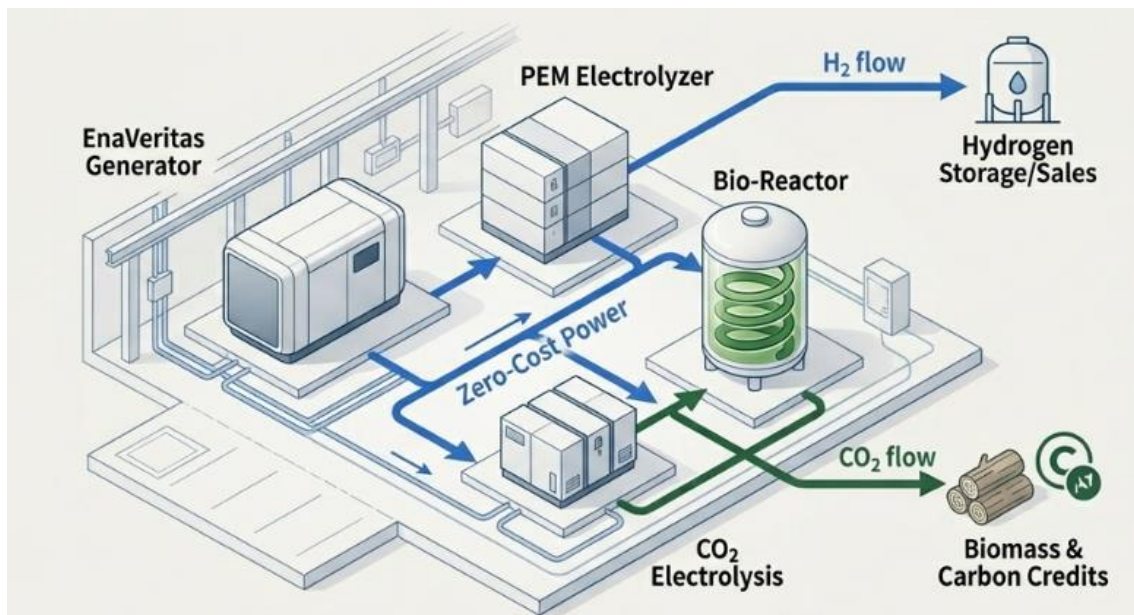
STEP 6: DSO gets the value of the service, e.g. capacity, balancing, frequency response.

4.2 Ultra-High-Efficiency Motor

The motor developed by SIORA is a self-sustaining energy solution built around vector motor technology that converts the repulsive force of magnets into motive power and eliminates 99% of cogging torque. It enables long-term power supply without external combustion.



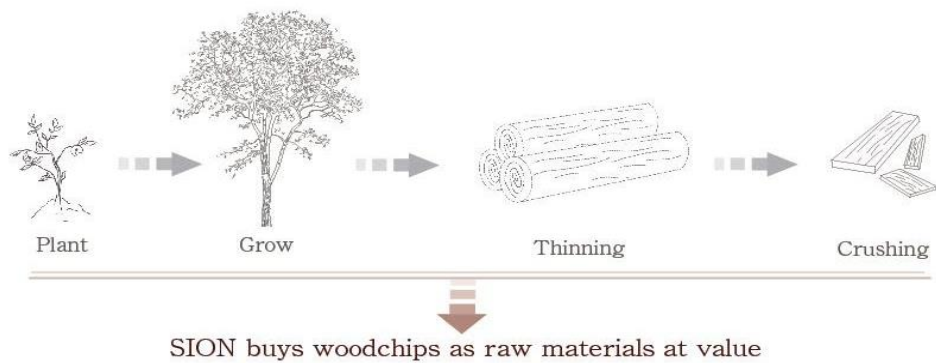
The system architecture is shown below.



4.3 Woody Biomass

Wood Chip Manufacturing Process

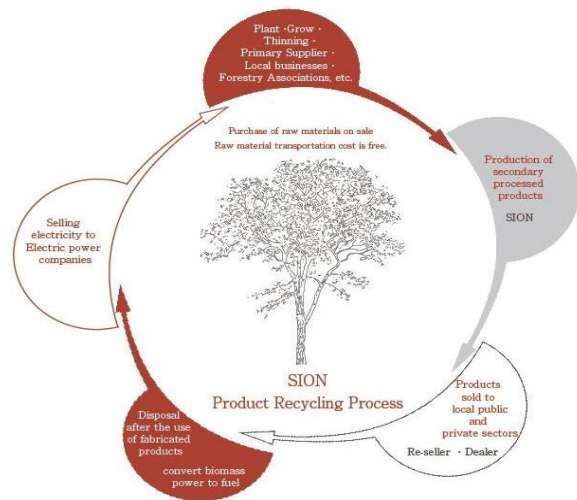
The figure below shows the flow of using locally sourced wood.



The figure below shows the secondary processing.



The figure below shows the recycling process.



Estimated CO2 Fixation Rate

Locally sourced thinned timber is used, and 100% of the thinned timber can be utilized.

$$\text{CO2 fixation (t-co2)} = VI \times a \times 0.5 \times 44/15$$

Specification: 100×200×50 tons of Woodrock Forest (1 piece of goodwill)

$$0.00092\text{t-co2} \times 5,000 = 4.6\text{t-co2 (Fixed does)}$$

Estimated Wood Usage

200 For 200 x 100 x t50

Commercialization is possible (varies depending on product specifications)

The molded wood boards developed by SIORA are composed mainly of wood chips produced using a wood-based adhesive (binder) made from thinned timber and wood waste, together with a molding technology that uses it. The molded product (in plate form) is called a wood mold.

These molded wood products greatly expand the use of wood as a resource.

They were born as a form that overturns conventional wisdom. These molded wood boards can be processed into many shapes, from flat plates to slate tiles and blocks, and can be used in a wide range of products, such as substrates for growing plants, depending on the market application. They are molded plates that can be reshaped.

Eco-Friendly and Safe Products

All wood products developed by SIORA are eco-friendly products made from natural wood. Under Japan's "Soil Contamination Countermeasures Act leaching test," 35 items, including outdoor paving blocks, slate tiles, and base materials for growing plants, have been tested. The company consistently produces products that meet high standards of value.

The concept behind SIORA's wood product development is "recycling-oriented."

"Recycling-based" means local production for local consumption through recycling. We purchase thinned timber and waste wood as valuable materials from the region's core industry (forestry), commercialize them to suit the products used in that region, and supply them to the local community, thereby achieving local production for local consumption. In addition, because the products are recyclable after use, they can be recycled or used as solid fuel for biomass power generation.

(1) 100% SIORA Wood Products

Most of SIORA's wood products are 100% wood (aggregate), and the adhesive used to solidify them is also 100% wood.

(2) SIORA Wood Products: "3R-Eligible Products"

The wood products developed by SIORA are used for reduce (waste reduction), reuse, and recycling.

(3) SIORA Wood Products: CO₂ (Carbon Dioxide) Fixation Products

The wood products developed by SIORA fix the carbon dioxide absorbed by forests without releasing it.

Characteristics of Woody Biomass

1. Reflection suppression (countermeasure against global warming and the heat island effect)

Reflection occurs when light strikes an object. Concrete and asphalt reflect direct sunlight and ultraviolet rays from the sun. This raises indoor temperatures and also increases temperatures in office districts and around aging buildings. Our products do not reflect direct sunlight; they absorb much of the heat and ultraviolet rays, reducing reflection.

2. Permeability

Because our wood products are aggregates of wood chips, they have many spaces (voids) between the chips and excellent water permeability. This permeability prevents water from pooling when the wood products are used as road surfaces.

3. Water retention

Because our wood products are cured using wood's natural water-holding capacity, the wood chips as a whole retain moisture, resulting in products with excellent water retention.

4. Thermal insulation

Thermal insulation relates to heat conduction. In our wood products, heat conduction refers to the transfer of heat from the surface to the bottom. The thermal conductivity of the T50mm product is 0.12 W/(m·K), providing excellent thermal insulation.

5. Weed suppression

Our wood products are effective at suppressing weeds in areas where weeds grow.

When the products are laid, they prevent direct sunlight from reaching the soil beneath, thereby suppressing weed growth. In various weed suppression tests, they suppressed weeds more effectively than laid concrete blocks or bricks.

6. Elasticity

Our wood products are made by solidifying an aggregate of wood chips as a whole. To further enhance elasticity, they make use of the gaps between chips and the natural elasticity of wood. Laying SIORA material on sidewalks and promenades used by pedestrians, especially the elderly and runners, reduces the strain on their knees.

7. Flammability

Our wood products are combustible, but because they are extremely strong, they do not catch fire easily (for example, even when touched by a cigarette or lit cigarette). Even in the unlikely event that this occurs, surface scorching from a cigarette disappears in about 10 minutes.

8. Internal bursting due to freezing or frost damage

Our wood products are free from concerns about internal bursting due to frost damage in cold regions.

9. Load resistance

These wood products passed the bending strength test under the JIS A 2 standard, with bending strength test set 5371 (N/mm²) to 5.0.

10. Deodorization and purification

Mixing charcoal into the wood products enables deodorization and purification.

*Deodorization and purification effects are not permanent.

11. Applications

Forty-eight acrylic paints (pre-mixed paints) are available for coloring the surface of our wood products. These paints can be freely combined from 48 colors based on traditional Japanese colors.

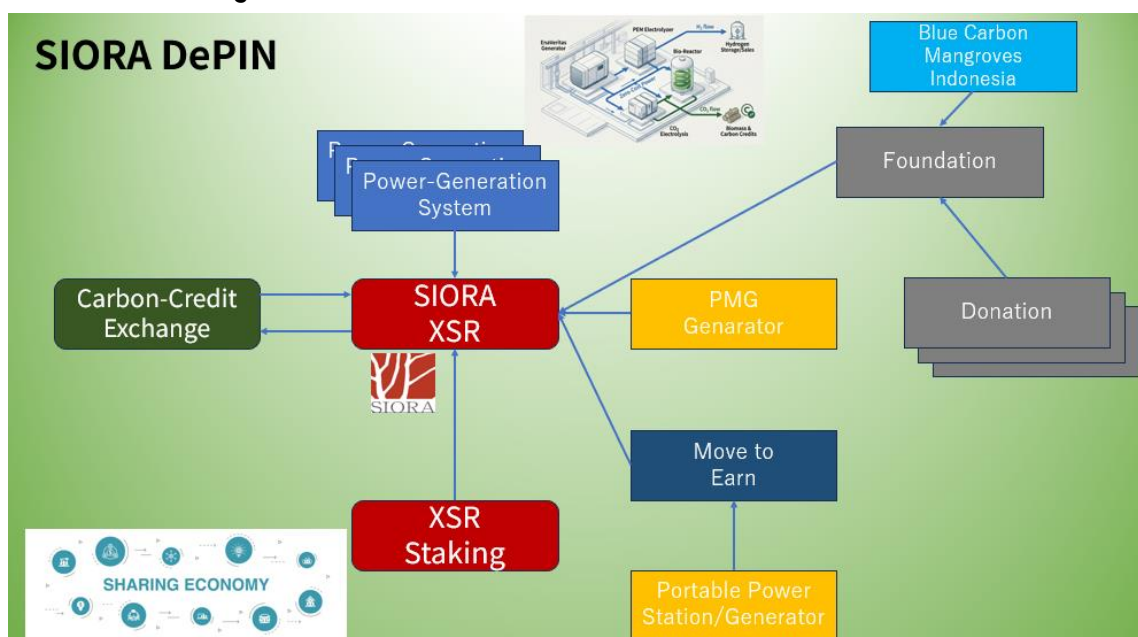
*Surface coatings deteriorate over time due to UV rays and sunlight, so periodic repainting is recommended.

4.4 DePIN

SIORA records measurement data from power meters built into its power generation equipment on the blockchain via the Helium network, achieving tamper-resistant data and low-cost wide-area communication. The core of this technology is the Helium network, which SIORA adopts in place of conventional 4G/Wi-Fi communication. The equipment is fitted with a LoRaWAN module and transmits data via nearby Helium Hotspots (wireless base stations) using Data Credits (DC). Because it enables low-power, long-range communication, monitoring is possible even in locations with poor infrastructure.

On the Helium network, users can earn rewards by providing CO2 reduction data. This is the Helium network's DePIN. In other words, users can earn tokens in every aspect of their daily lives, and the tokens they earn can also be exchanged for carbon credits.

Because users can earn rewards in every aspect of their daily lives, token liquidity also increases. SIORA makes full use of power generation, a technology indispensable to everyday life. Power generation is essential in daily life, and SIORA, which lets users earn rewards simply by generating power, is a highly attractive service. Moreover, users not only earn rewards but also contribute to solving global warming through DePIN. By spreading this DePIN model, SIORA will establish a firm position in the global market.



4.5 Blockchain

SIORA's blockchain is called the KATANA blockchain. The Katana™ blockchain uses a proprietary algorithm designed to connect with IoT.

(1) Katana Blockchain

To link the Katana™ blockchain with IoT, the team first designed a proprietary algorithm and added it to a PoS BFT consensus engine. The language was changed from C++ to Go, and the hash function was changed from SHA3-512 to BLAKE3 512. Viewing the web architecture, consensus engine, and application API as one system (TSMP and WebSockets), three systems have been changed.

The team is currently changing the Katana™ blockchain consensus engine to TR PoS BFT and installing the native token "XEK." It has entered the second and third phases of final adjustments to move from the testnet environment to the production environment. The Katana™ Wallet will also be released. In addition, alongside the IC-chip design of the module, the team plans to complete production of and launch a Qi-compatible module for wireless power transfer.

The fourth phase is building a network using spread spectrum for Qi-standard devices with embedded IC chips, combined with additional SDK implementations and IoT Dapps. Using the Katana™ blockchain, this platform will exchange not only tokens but also Bitcoin, Ethereum, Cardano, NEM, and other ledgers with a Layer 4 protocol. This will lead to the implementation of the settlement token "XEK" for applications such as packet exchange between tokens and smart contracts, and to the production of Qi-compatible auxiliary circuit chips for wireless power transfer.

In the fifth phase, Qi-compatible wireless power transfer IC chips will be made compatible with various IoT devices, WPT devices, networks using drones and satellites, and cross-networks with the company's own internet-based network. It will also provide a building platform for connecting AI, VR, and the Katana™ blockchain with WPT networks, satellites, space rockets, and internet-based interactions.

Achieving mutual access to IPFS has aspects that can be destructive once a culture becomes highly developed. Finally, this project focuses on harmonizing culture and civilization through a deep desire for knowledge rather than through being taught.

Clearly, we chose Katana™ as the name of our blockchain, that is, our distributed consensus ledger. The katana is not only the traditional sword used by the samurai of ancient Japan; it also characterizes the idea behind the Katana™ project. The Japanese sword, the "katana," is made by forging tamahagane, a type of steel produced by traditional Japanese methods, and folding steels of different tension over and over, 10 to the power of 2 (1,024) and 2 to the power of 15 (32,768) times. The Katana™ Blockchain was developed with the same philosophy as Japanese swordsmithing, based on the concept of "harmony of culture, civilization, and economy."

The explosive spread of the internet, known as the Third Industrial Revolution, was driven by entrepreneurs and engineers, individually and collaboratively. Both engineers and entrepreneurs play important roles in projects built on the internet. Blockchain × WPT × IoT (AI × VR) is the greatest business opportunity of the 21st century. Indeed, launching a network infrastructure called blockchain can be expected to produce enormous economic effects. However, building a network infrastructure that connects IoT via WPT in a universal way is extremely difficult.

Reviewing or redesigning existing blockchains does not work.

The Katana™ project brought together not only blockchain engineers but also Tesla coil engineers, WPT engineers, IoT engineers, communications engineers, cryptography engineers, and others. We drew on the technical expertise of others who were deeply involved in the development of Katana™.

Normally, computers receive information from the outside. Most blockchains are designed to run applications, but they are designed to process information from the inside.

Smart contracts in the world involve states viewed from the outside, more complex conditional branching processes, and more sophisticated network environments in which smart contracts are shared and interact.

We are also designing a satellite-based network. In addition to further expanding the range of connectivity with the Katana™ blockchain and improving the scalability of our current blockchain, we will build our own network even in places where the internet is not currently available, connect it to the internet, and transmit and receive information, data, content, and applications, linking IoT to the Katana™ blockchain. Via Katana™ WPT, users can access a dedicated SS-based network and connect to VR and AR from smartphones and tablets. Furthermore, space rockets can offer applications that are currently rare in the space business. The team also believes that decarbonization will lead to ever more EVs and that, over time, most countries will allow only EVs. Electric vehicles will undergo real-world driving in the final phase.

In addition, various business models using drones have been proposed, but their operating time is limited. Katana™ WPT makes the following possible.

(2) Recording on the Blockchain via the Helium Network

Measurement data from power meters built into the power generation equipment is recorded on the blockchain via the Helium network. This achieves tamper-resistant data and low-cost wide-area communication. As a result, data reliability and transparency are ensured, and the recording process has been updated. Power and CO₂ reduction data uploaded to the monitoring server is written to the blockchain (a distributed ledger).

In other words, power generation and emission reduction records cannot be altered once recorded, increasing their credibility as proof of environmental value (such as non-fossil value). In addition, records of which device generated how much power and when are kept in a state that anyone can verify.

This has achieved high security, low communication costs, and proof of reliability.

4.6 Carbon Credits

Aims of Partnering with the Carbon Credit Business

The existing business plan consists of three pillars: (1) sales and lease revenue from power generation equipment (EnaVeritas Motor / EnaVeritas System), (2) patent licensing revenue, and (3) crypto-asset mining revenue. We propose adding a fourth pillar: a revenue model in which the CO2 emission reductions and avoided emissions achieved by installing power generation equipment are certified and sold as "carbon credits." Carbon credits are a mechanism in which greenhouse gas emissions reduced or avoided through the introduction of renewable energy, energy-saving equipment, and the like are quantified, issued as credits, and traded between companies; the market is expanding both in Japan and overseas.

Envisioned Schemes and Frameworks

Representative carbon credit schemes include the following.

Scheme	Overview
J-Credit Scheme	A scheme under which the Japanese government certifies emission reductions and removals achieved through the introduction of energy-saving and renewable energy equipment in Japan. It is frequently used for energy-saving equipment investments by small and medium-sized enterprises.
GX-ETS (emissions trading scheme under the GX Promotion Act)	A domestic emissions trading scheme scheduled to begin full operation in FY2026. It could affect both future revenue opportunities and constraints.

Scheme	Overview
Verra (VCS) / Gold Standard	International voluntary credit certification bodies. An option when considering overseas expansion (Asia and other regions).

Addition to SIORA

We will implement the following scheme.

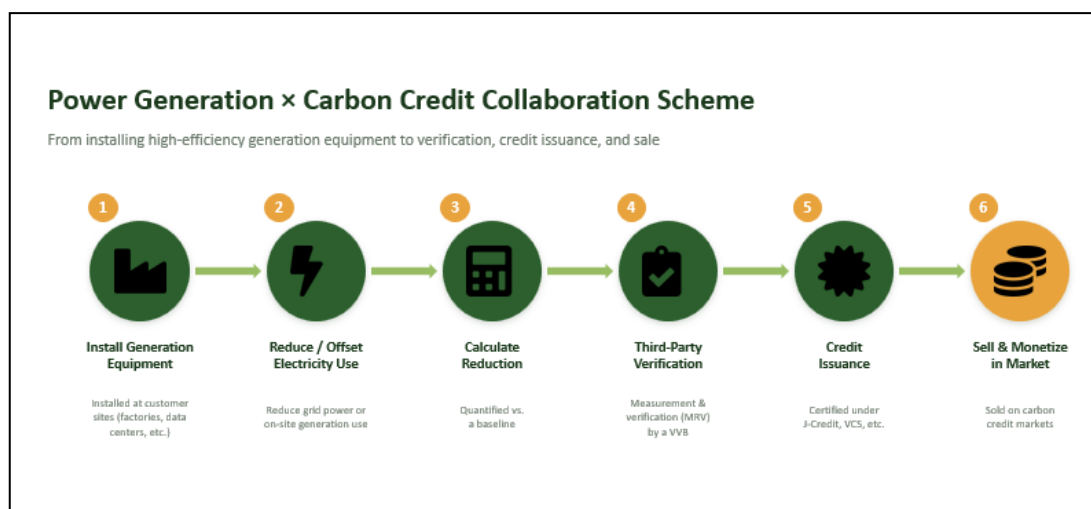
(1) Install power generation equipment at customer sites (factories, data centers, mining facilities, etc.) to reduce or replace the use of grid electricity or existing on-site generation (such as diesel generators).

(2) Quantify the amount of electricity reduced or replaced based on an approved baseline methodology.

(3) Issue credits after verification and certification by a third-party Validation and Verification Body (VVB).

(4) Sell the issued credits on carbon credit markets in Japan and overseas, making this a fourth revenue source alongside product sales and lease revenue, patent licensing revenue, and mining revenue.

By combining this revenue source with existing lease and sales contracts, we can offer customers a "partial return of credit revenue" in addition to "electricity cost savings," and it can also serve as an incentive for us to increase product sales volume.



Peg Formula for SIORA and Carbon Credits

The relationship between SIORA staked tokens and carbon credits can be expressed by the following peg formula.

Calculation formula

$$Siora_Staking_t = \lambda_1 I_t + \lambda_2 \frac{Siora_t^{stake}}{Siora_t + \alpha D} + \lambda_3 AMM_t$$

Where

$Siora_Staking_t$: Price of SIORA staking

λ_1 : Carbon market price dependency coefficient

I_t : Carbon index

λ_2 : Stability coefficient

$Siora_t^{staking}$: Amount of tokens staked in SIORA

$Siora_t$: Total SIORA issued

α : Weight

D : Burned and currently staked tokens

λ_3 : Market supply-demand coefficient

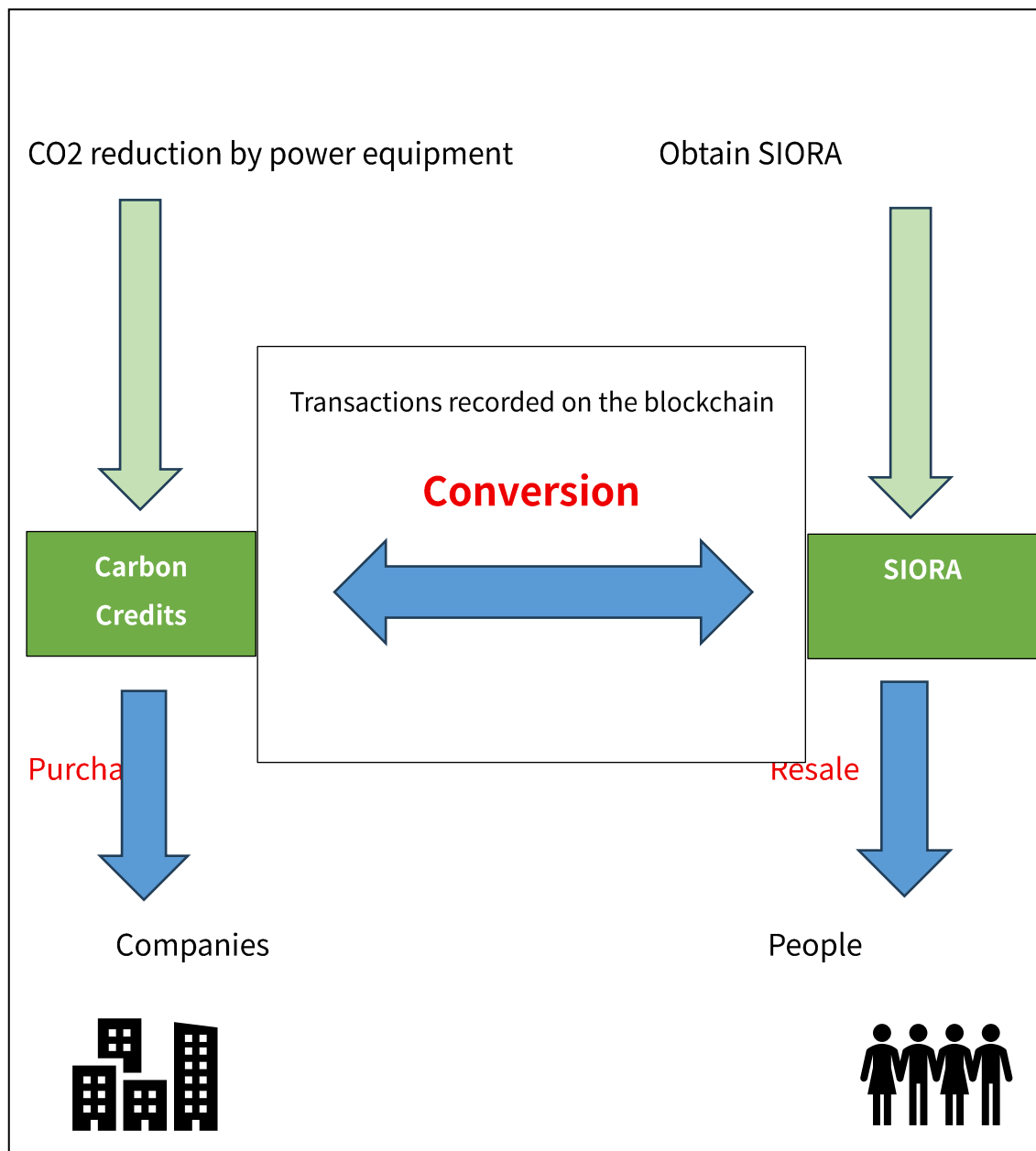
AMM_t : Liquidity model

Notes)

1. The staking ratio never exceeds 100%, because its denominator is the amount of SIORA issued plus burned and currently staked tokens.

Linking SIORA and Carbon Credits

Carbon credits based on actual CO2 reductions can be converted to and from SIORA, and this information is recorded on the blockchain. SIORA can also be converted into carbon credits and sold to companies.



5. SIORA's Mission, Strengths, and Advantages

SIORA's mission is to transform lifestyles and make life richer and more convenient through innovative technologies in the electrical field.

To achieve this mission, the team envisions leveraging SIORA's strengths and advantages over existing players. SIORA's strength lies in its superior technology for connecting WPT and ultra-high-efficiency motors to the blockchain via the Helium network. SIORA's technology also overcomes the weaknesses of existing players and market technologies by using highly weather-resistant and durable wood chips, or particle boards known as "katana" chips.

The team draws on outstanding talent from around the world to achieve its mission.

In other words, it has world-class talent and an environment for continuing IoT and blockchain research and development. World-class technology is what distinguishes us from other companies and gives the team its advantage.

6. SIORA's Strategy and Competitors

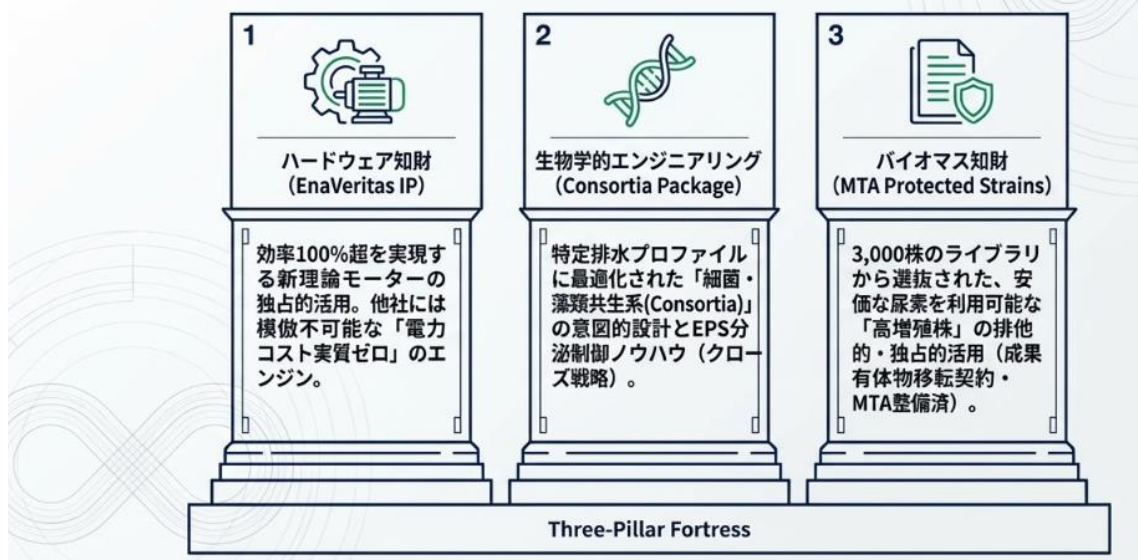
From a strategic standpoint, the SIORA team plans to participate in international trade events to commercialize and showcase its proprietary technology.

SIORA targets a variety of markets, including power supply for electric vehicles, charging for smartphones and PCs, and medical settings. It will therefore be a very large market. We will develop this large market through a differentiation strategy based on our proprietary technology.

The company's competitive advantage is that SIORA's WPT is contactless. Separately, other companies are also developing technology using microwaves. However, this is an effort to leverage each other's strengths and share them with society. Therefore, there is no competition or substitution.

In addition, for the ultra-high-efficiency motor, hardware IP, biological engineering, biomass IP, and more provide an overwhelming competitive advantage and barriers to entry.

競争優位性と参入障壁 (Strategic Moat)



7. Market Opportunity

(1) Wireless Power: A Growing Market

According to IHS Markit data, annual shipments of wireless power receivers and transmitters show signs of market momentum. From 2016 to 2017, receiver units grew by 42.8% and transmitter units by 32.8%. In 2017, more than 90% of wireless power products shipped (300 of 325 million units) were for mobile phones. This means that mobile phones will continue to be the main driver of the development of wireless power technology.

In addition, the 2017 IHS Markit consumer survey showed that respondents' awareness of wireless charging technology remained high. According to the survey, the top two countries for wireless charging usage are the United States and China. Mobile phones continued to be the gateway to the consumer experience and to wireless power demand. According to the 2017 consumer survey, one in three U.S. consumers (about 35%) said they already use wireless charging, up from 25% in 2016 (both globally and in the U.S.).

The IHS Markit data and consumer survey results were also confirmed by another recent consumer survey conducted by the Wireless Power Consortium (WPC) in 2018. According to the WPC consumer survey, the share of consumers using wireless charging increased significantly in 2018 from just 10% in December 2016. The WPC survey also confirmed that awareness of wireless charging remains high: 89% of respondents were aware of WPT technology, and 44% said they were very familiar with it.

According to a 2018 study by Yano Research Institute, the global wireless power market was valued at \$1 billion in 2017; small electronic devices such as smartphones are driving the market, while applications such as EVs and industrial machinery are gradually expanding. The study forecasts that the market will nearly double in

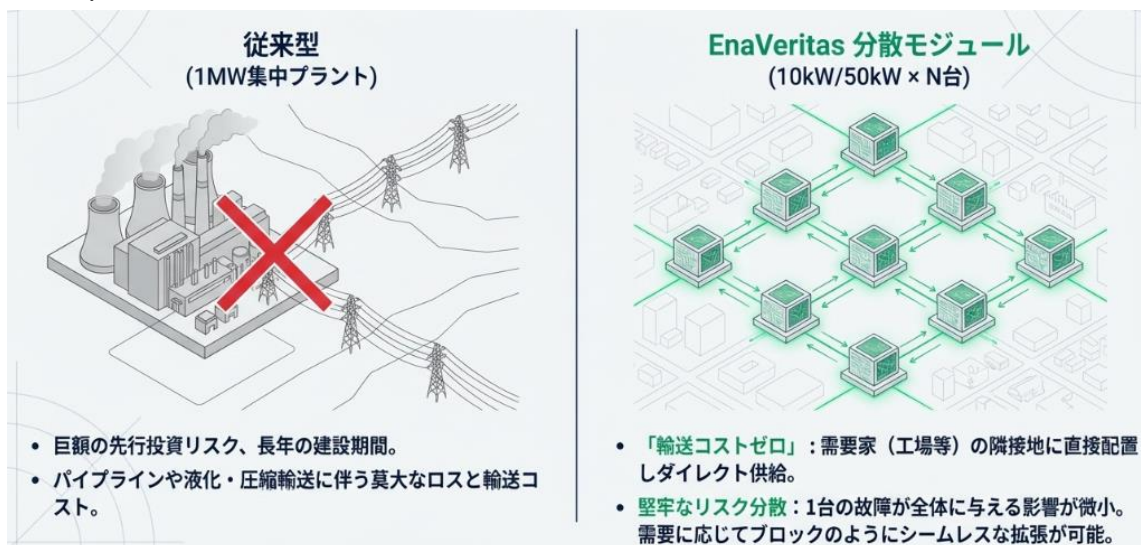
2019, from \$1 billion in 2017 to \$1.9 billion in 2019, and will grow 30% to reach \$100 million by 2023.

Once WPT technology achieves mainstream adoption in the mobile phone market, its range of applications is expected to expand to other areas such as laptops, tablets, wearables, medical devices, industry, and the automotive sector.

Many technologies can be used for wireless charging, including radio frequency-based (RF-based), mat-based or inductive charging (Qi), ultrasound, and laser beam-based (infrared). The SIORA team uses Qi in its WPT technology.

(2) Ultra-High-Efficiency Motors: A Growing Market

The motor market is expected to shift from large centralized infrastructure to small distributed networks. This is because the conventional model will be avoided due to the risk of huge upfront investment, long construction periods, and the enormous losses and transport costs associated with pipelines and liquefied or compressed transport; reducing transport costs and diversifying risk will become mainstream. Whereas 1 MW centralized plants were the norm, the future is expected to be distributed modules of 10 kW/50 kW × N units.

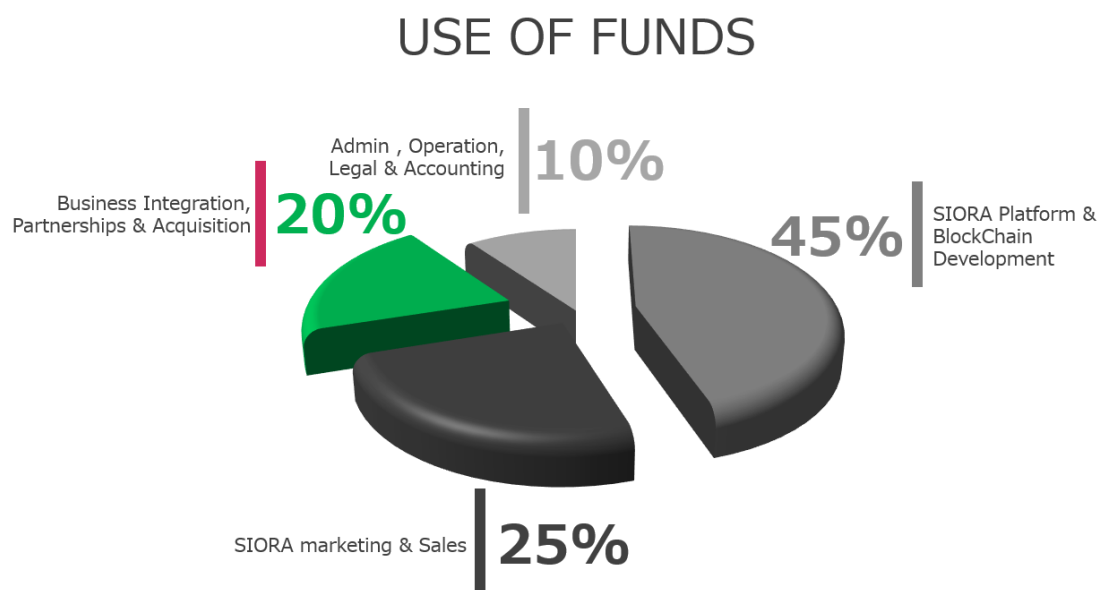


8. Use of Funds

Funds raised by the team will be used as follows.

The SIORA team will use most of the funds raised for the development of the Katana blockchain and the SIORA platform (45%) and to support planned marketing and business development initiatives (25%).

In addition, in line with the company's strategy, part of the budget (20%) will be allocated to business integration, partnerships, and acquisitions. The remainder of the budget will be used for administrative expenses and operations, legal, and accounting (10%).

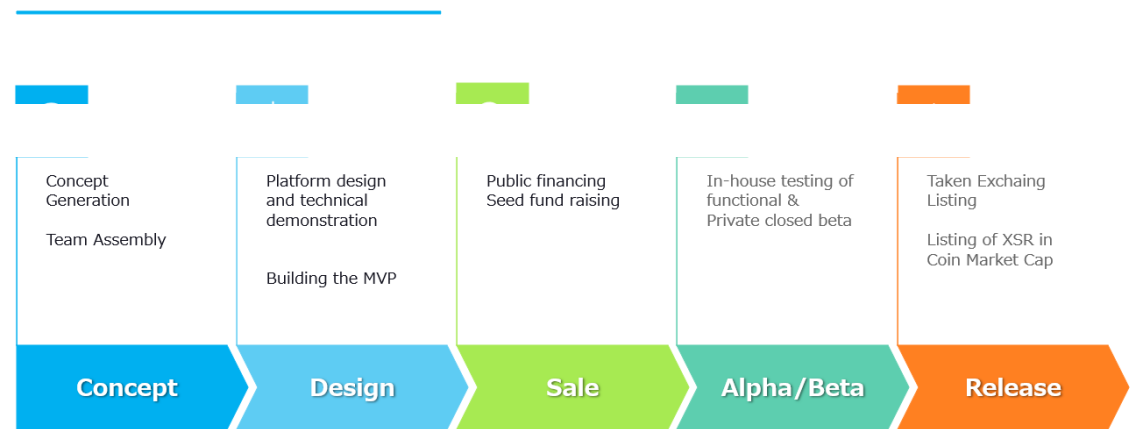


9. Roadmap

To realize its vision, the team has identified projects and broken them down into key project milestones for executing and implementing the initiatives described above. The SIORA Project roadmap is shown below.

Road Map

About road map Siora team work very hard collaboration all ideas and strategic planning to achive project goal and deliverables on time.



10. Organization Chart

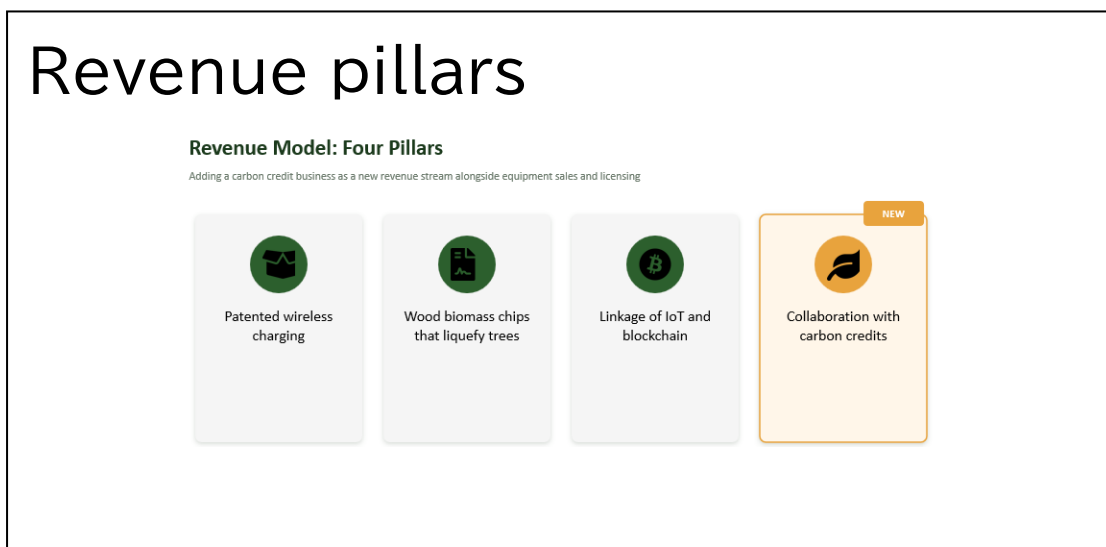
SIORA is made up of global, highly technical members.



11. Conclusion

SIORA is built on the following technologies.

- (1) Patented wireless power and ultra-high-efficiency motors that surpass conventional technology
- (2) Woody biomass chips that liquefy trees
- (3) Wide-area communication via the Helium network, and integration of IoT and blockchain
- (4) Integration with carbon credits



These technologies will revolutionize the charging of power, which is indispensable to daily life, and make everyone's lives more convenient and comfortable. In addition, partnering with the carbon credit business aligns with the SDGs and decarbonization trends, and its direction as a business opportunity is considered sound.

These technologies will be used in many places around the world in the future.

SIORA will continue to strengthen these initiatives. They will revolutionize the field of electricity and make everyone's lives more convenient, more comfortable, and more environmentally friendly.

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