



Sierracoin Whitepaper 2.0
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Shift to Renewables to Become a Growing Trend in Solar Mining



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In this document, specific attention is given to SIERRA's SPOW. All information is targeted at customers who have already experienced or used solar energy generation control and monitoring systems. New changes and updates will be published in separate publications in the form of explanatory notes for users of Proof of Stake (POS), Masternode (MN) and Solar Proof of Work (SPOW).

The SIERRA Foundation is the first to develop solar cryptocurrency mining using renewable energy sources.

SIERRA INTRODUCTION

SIERRACOIN is a blockchain based cryptocurrency that was designed to accelerate the use and creation of solar energy. Like other cryptocurrencies such as Bitcoin, the SIERRA network is truly global and decentralized.

SIERRA payments are associated with a significant, cost-effective and environmentally friendly incentive: the production of solar energy.

SIERRA is a community project initiated in 2018 by the founders of the SIERRA Foundation and a group of volunteers. SIERRA supports POS / MN rewards and will further incentivize solar production through SIERRA coins. Anyone can receive SIERRA by either staking coins, running a Masternode or for each kilowatt-hour (KW) of confirmed solar energy produced by your Photovoltaic (PV) system. All methods of obtaining SIERRA are environmentally friendly and helps to save the planet.

The SIERRA rewards are additional to existing incentive programs and does not depend on other preferential tariffs applicable to solar energy producers. Anyone who generates solar energy and, as a result, avoids long-term CO2 emissions, can earn SIERRA.

A hardfork is planned in the future to introduce our SPOW enabled mining algorithm. At this stage, we are negotiating with companies that produce solar equipment and software to incorporate our algorithm into their solution. The official SIERRA mining pool will



also be launched, where you can connect your solar installations to get SIERRA rewards.

At SIERRA, we want to help speed up the production of renewable energy by creating a community with a common vision and passion for this mission.

As the project progresses, further information will be added to this document, where the main aspects of the deployment of the SPOW algorithm, maintenance and additional incentives for the operation of POS / MN and the entire SIERRA network will be disclosed.

PRESENTING SOLAR PROOF OF WORK (SPOW)

SIERRA is a solar energy mining incentive algorithm for PV system owners and other solar producers. The SPOW algorithm works based on the confirmation of power generated from your solar installation.

SPOW Reward Calculation:

5 Sierra (SPOW Block Reward) x 720 (Blocks per 24h) = 3600 SIERRA

Each confirmed kilowatt-hour (KW) of energy produced is rewarded 3.6 SIERRA based on an approximate total power of 1 MW.

The actual earnings will vary based on the power generated by each solar installation. If the total power of the network is lower than 1 MW then the rewards will be higher (due to fewer participants during the initial stage), but if the supply of the total confirmed network exceeds 1 MW, then the rewards for 1 KW will decrease. There will be one fixed unit, the 3600 SIERRA which will be divided every 24 hours between network participants, depending on the capacity of their installations.

WELCOME TO THE SIERRA ECONOMY!

From an economic point of view, SIERRA's adoption will increase with the addition of various commercial partnerships. With regards to demand creation, the SIERRA foundation believes that manufacturers will begin to realize the value of incorporating the SPOW algorithm into their equipment. By doing so they are creating a new level of rewards for solar power producers on top of other incentives, such as government subsidies or carbon credits. Anyone who produces solar energy can receive SIERRACOIN. Think of SIERRACOIN as "airmiles" to



produce solar electricity - it's just better because it is independent.

SIERRA is global, decentralized and independent from any government or jurisdiction. SIERRACOIN can be used as a means of exchange and is aimed at stimulating real environmental activity such as reliably produced solar energy. The economic model of SIERRACOIN was developed based on the study of the world's leading cryptocurrencies, with customizations to stimulate the production of clean energy.

The SIERRA Foundation is open to engage with solar equipment manufacturers and service providers with the purpose of integrating SIERRA into their solutions, to create new incentives for end-users in the form of added value for their installations (without adding significant costs), which in turn increases their profitability.

Applications for manufacturer and service provider integrations will open in May 2019.

EARNING SIERRA SPOW

For photovoltaic equipment owners and operators to receive SPOW rewards for their produced energy, they must connect to the official SIERRA POOL which can be done with just a few clicks. In doing so you gain access to SIERRACOIN, the world's first solar energy cryptocurrency.

Users can connect their solar systems to the SIERRA POOL by simply entering their SIERRA wallet address, which acts as a bank account. The SIERRA POOL sends SIERRACOIN to the user's wallet at an estimated rate of 3.6 SIERRA per 1 KW of confirmed power generation every 24 hours (at 0:00 UTC), provided that the declared KW is confirmed every hour in the system. Monitoring systems or platforms require several data units to verify energy produced and use this method of actual provision.

Users will be able to exchange or spend SIERRA with commercial partners that accept SIERRA, whilst continuing to receive SPOW rewards for produced energy.

We are currently in negotiations with several platforms to integrate SIERRA. If your energy monitoring platform does not support SIERRA, please inform us in order to investigate the opportunity.



In further publications about SPOW, we will showcase the new user interface for monitoring solar PV systems with the active SIERRA SPOW tab.

You can register for closed testing of the new SPOW algorithm on the SIERRACOIN website starting 15 April 2019. Testing will begin shortly after collecting the necessary data required to build the internal infrastructure. The commencement date will be communicated to users who have registered on our website. The public release of the network with support for SPOW is scheduled for 1Q 2020.

OPEN SOURCE CODE

The SIERRACOIN team supports the idea of open source code for blockchain-based coins. All our developments on the SIERRACOIN will be available to everyone on GitHub (<https://github.com/sierracoin-foundation>).

An open project will help promote innovation. We welcome the contributions of all who wish to improve the project. This project would not have been possible without the previous work of the Bitcoin and Dash development teams. We appreciate their efforts and the opportunity to contribute to this growing area of technology. In addition, we thank the passionate members of the SIERRACOIN community who developed this project and are actively involved in the evolution of SIERRACOIN.

Please note that only SIERRACOIN is open source. All other developments of the SIERRA Foundation, which includes the SPOW algorithm are proprietary information. SIERRACOIN is a method of modern monetization of a decentralized project and, therefore, the details of the development, mechanism of action and software are not subject to public announcement.

All the necessary technical information will be made available to users after the official launch of the SIERRA SPOW project.

CONFIDENTIALITY

The SIERRACOIN team values the privacy of individuals and organizations. It's extremely important that teams take the necessary precautions to limit the impact of any potential threats that could adversely affect the development of projects.

The SIERRACOIN team is very serious about confidentiality in today's modern world of technology to ensure that external factors not



negatively influence the development of this decentralized blockchain project.

CONCLUSION

SIERRACOIN (SIERRA) was created by enthusiasts and true fans of blockchain technology from different parts of the world. With no ICO or pre-sale the project was completely funded by its developers. The SIERRA team is actively working on meeting the goals set in accordance with our roadmap.

If the project is successful and the demand and price of SIERRA appreciates, the potential incentives may represent a large share of the total income generated by a solar energy producer.

Solar energy can be freely sold or bought with the help of SIERRA, since all participants in the process will be functioning and operating in the same ecosystem. Also, manufacturers and service providers joining the ecosystem can begin accepting SIERRA as a means of payment for their goods and services.

Soon, SIERRA's multicurrency mobile wallet (for Android operating systems) and SIERRAPAY service will be released, which will significantly improve the experience and function of sending and receiving of SIERRA payments.

According to the Howey test and the SEC's "quote" statement - Bitcoin and similar coins (also SIERRACOIN's concern) are not securities - "Bitcoin can replace the dollar, the yen or the euro, so we cannot classify it as a class of securities"

We would like to thank our valued community for their active participation in the project's growth and development and ask for your continued support, patience and understanding as we are not in a position to disclose more information about our current developments, strategic partnerships and future project plans until all the relevant stakeholders have agreed and given us consent to do so.

We know that open communication with our community is a key driver of success and hope that SIERRA will continue to gain momentum as we progress, since there are a lot of new and interesting things in the pipeline such as services like Arcadia Power:

<https://www.arcadiapower.com>



SIERRACOIN

Various companies offer different platforms, but the principle remains the same as they provide a solution for finding and connecting suppliers of green energy directly to the end consumer. Energy suppliers are constantly looking for new markets, methods and opportunities to utilize their services.

Website: <https://sierracoin.net>

Whitepaper link: <https://sierracoin.net/whitepaper.pdf>

Roadmap: <https://sierracoin.net/#roadmap>

Telegram Chat: <https://t.me/sierracoin>

Official Twitter: https://twitter.com/sierra_coin

Discord Server: <https://discord.gg/TmF4nuC>

Medium Blog: <https://medium.com/@sierracoin>

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