



A BLOCKCHAIN TECHNOLOGY THAT AIMS TO CONTRIBUTE SIGNIFICANTLY TO THE FUTURE OF RENEWABLE ENERGY BY PROVIDING A REWARD SYSTEM FOR WASTE DISPOSAL

VEIO WHITEPAPER

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CONTENTS

Declaration	4
Abstract	5
Introduction	6
Value proposition	9
Opportunity	10
Veio Coin: A crypto-currency and smart contract system for the renewable energy industry	11
People, Planet, Prosperity (PPP)	13
Energy Pool	17
Veio Coin Pre-ICO	18
Roadmap	21
Conclusion	24
References	25

DECLARATION

The Veio Pre-ICO is an Initial Coin Offering (ICO) on the ERC20 compatible token platform designed to finance the conversion of renewable resources into usable energy.

OVERVIEW

The Problem:

Our world has become polluted, and waste has become a daily life challenge for billions of people. We are burning fossil fuels to power our communities; meanwhile many people are still without sustainable power. The world cannot rely on oil and power plants alone, and the system has no choice but to change to renewables.

The Solution:

We intend to solve this problem by taking advantage of innovative technologies to incentivize people to convert waste into electricity. So instead of discarding waste, people get paid to collect it and convert it into energy.

INTRODUCTION

Veio is a project that connects three areas with enormous potential: energy, blockchain and people. Growth and development in each of these fields is important for the quality of our lives. But joined together into a new, disruptive model of energy trading, they have the power to make our planet a better place to live in. Supporting Veio means supporting sustainability because it brings together energy producers and consumers with common interests: to save money and to create a decentralized, smart and clean future. Energy is one of the cornerstones for a modern society to function. Households, hospitals, air traffic systems, road infrastructures, communication and financial service industries are all dependent on energy resources like electricity to function. The renewable energy market is developing fast, due to increasing energy demands and greater awareness of climate changes. This consequently opens new and interesting opportunities. Research by Bloomberg New Energy Finance shows that by 2040 more than 60% of total investment into the energy sector will go into renewables, which means that the total global investment will be \$11.4 trillion of which \$7.8 trillion will go into renewable energies and only \$3.2 trillion into fossil fuel energy. This is a significant increase of investments into the renewable energy sector, especially into wind and solar power energy; the latter two, according to Bloomberg, amount to more than 65% of total investment into renewables. In its current state, the energy market is facing challenges in the form of centralized conventional power stations that often require high costs of energy transmission over long distances. The existing energy model with its infrastructure will not be able to cope with the increasing energy demand that is expected to more than double by 2050. A change of the model is necessary with a shift to decentralized energy production supported by renewable energy. There has already been some movement towards renewable and sustainable distributed energy systems in recent years.

Renewable energy obtained mostly from hydro, wind and solar power will definitely help pave the way to a cleaner, more sustainable energy future. It is clear that over the past few years the cost of solar energy systems has dropped significantly, giving easier access to affordable, clean energy. With renewable resources, energy production became more decentralized, local and moved closer to consumption points.

A distributed energy system generates power on-site, at the point of consumption and therefore significantly decreases the cost, complexity, interdependencies and inefficiencies associated with transmission and distribution.

Blockchain technology offers great potential. It fits perfectly into the renewable energy sector because it enables direct (peer-to-peer) services closer to consumers and producers and offers transparency and local energy self-sustainability. We offer you the opportunity to be a part of the Veio project. With this project we could build the largest energy power pool that will enable energy self-sufficient entities and financial benefits by combining the best features of two seemingly very different, areas. Using the advantages of blockchain technology to disrupt services in the energy sector is an innovative and thrilling prospect.

VEIO IS DEDICATED TO:

- Create a digitally-tradable crypto-token for energy trading;
- Enable personal contribution for improving the global situation;
- Support self-consumption and self-sufficiency;
- Take the full potential of local renewable resources;
- Take advantage of blockchain technologies;
- Enable transparent transactions between producers and consumers through the Pool, based on smart-contracts;

- Lowering costs by reducing or outright eliminating the role of the middleman;
- Strengthen the crypto-currency network;
- Connect people worldwide, borderless;
- Take an important step towards reducing global warming.

The Veio project aims to create a sun-driven economy. Our team has remarkable ideas on how to integrate blockchain technology into the energy sector, improve services and increase economic, environmental and social benefits. The funds we gather will allow us to develop and implement a variety of innovations that we are planning for this sector in the near future. This is a truly big opportunity in the energy market with the potential to reward all participants; the consumer and producer with financial value, cleaner energy and digitized compensation for the electricity they consume and produce and Veio by the growth of the network.

VALUE PROPOSITION

- ❖ *Deposit your waste with our energy partners* – Individuals no longer have to just discard their waste. All you have to do is deposit your waste with any of our energy partners close to you or request a waste pickup from any partner offering the service. People will be encouraged by this as it adds value, contributes to a greener environment and better living.
- ❖ *Get paid with Veio Coin as incentive* – After the receipt of any waste by our energy partners, they transfer an amount of Veio Coin to your ethereum wallet. The amount of Veio coin transferred will be proportional with the energy the collected waste can generate. This will motivate individuals to deposit waste in huge mass which in turn will increase energy production.
- ❖ *Buy energy products and services with Veio Coin* – After you receive your Veio coin, you can exchange it for electricity products, bills and also to purchase goods, especially energy products from our energy partners and agencies. Everyone can benefit; poor, middle class and rich. It's for everyone.
- ❖ *Transact between friends and colleagues* – you can easily transfer Veio coin to business partners, friends and colleagues as a medium of exchange. You can also exchange Veio coins for other crypto-currencies on crypto-exchange platforms. Veio coin is the future of crypto-currency. Its potential is limitless.

OPPORTUNITY

Our team has been active both on energy and IT markets for years. We are well aware of opportunities and have the knowledge and innovative ideas for new perspective services that can be implemented with blockchain technology. With economic growth and development the need for electricity also increases. An estimation presented during the Event Horizon 2017 in Vienna (Energy Blockchain Conference) predicted that in 30 years the existing levels of energy will only suffice to maintain the existing infrastructure, given the population growth and the fact that more and more products use electricity as their primary source. And when energy storage and the automobile industry reach the break-through point, electricity consumption is expected to double. There is no question about demand: it is huge. Over and above that, there is the gap between retail price and bulk price of electricity to consider as well. On average, only one third of the retail electricity price is on the energy itself, the rest are different charges that increase your bill, such as; distribution charge, customer charge, state tax adjustment charge, consumer education charge and some others.

Introducing blockchain into the energy market means reducing costs by diminishing the effect and cost of the middleman. It also means optimizing consumption and production of electricity and thus transferring the added-value directly to consumers and producers. The goal of Veio is to replace the existing middleman role with blockchain technology in order to connect independent power producers (supply) and power consumers (demand) through the Veio Pool via smart contracts. Smart contracts are blockchain-based programs that aim to provide trust and security superior to traditional contract law and to reduce other transaction costs associated with contracting while also saving a lot of time, since they are executed as soon as agreed by all participants. When connecting the energy sector and cryptographic infrastructure, a lot of room is opened up for business process optimization, as well as more transparent and

efficient functioning within the energy sector. With this new approach, the retail price of electricity can be diminished and that gives us an opportunity to reach a sizeable market share. Veio will also be partnering with energy agencies to collect wastes from globally concerned individuals and to pay these individuals in Veio coins, an amount proportionate to the amount of energy the collected waste can produce. The Veio coins can be used to purchase energy products and services, electricity and also for trade/exchange on crypto trading platforms.

VEIO COIN: A CRYPTO-CURRENCY AND SMART CONTRACT SYSTEM FOR THE RENEWABLE ENERGY INDUSTRY

A crypto-currency is a blockchain-based ledger system with both transparency and privacy in mind, enabling a trust-based system of trade between humans via digital currency. By launching a renewable energy crypto-currency, we are essentially launching a renewable energy bank, with the critical distinction that instead of a bank existing within a centralized system, anyone can launch one's own exchange and participate in the decentralized global digital market, which is Veio Coin.

To facilitate the conversion of energy to crypto-currency, we will leverage existing energy technologies, as well as invest in future technologies. Once our ICO is complete we will develop

a smart contract platform on top of the Veio crypto-currency and launch this new crypto-currency.

This will specifically allow anyone to exchange Veio coins for usable energy products like electricity. Veio coin holders can also trade Veio coin in exchange for other crypto-currencies. Individuals can also create their own smart contracts on our platform in order to exchange, buy, trade, and sell energy. We will invest in renewable energy technologies and intellectual property that will facilitate our ability to grow renewable energy projects across the globe while also leveraging our own crypto-currency. At the same time, we will also build tools to allow anyone to do the same.

PEOPLE, PLANET, PROSPERITY (PPP)

Triple Bottom Line (TBL)—People, Planet, Profit (PPP)

The TBL is a business accountability framework that equally weighs impact along social, environmental, and financial measures of success.



Veio's Impact on People

✓ *Value creation for every human*

Veio draws its value from the key moment where renewable energy sources are converted to usable energy products. Certified renewable energy generating devices will measure and report energy production, and the value generated will be traded in exchange for Veio coins which in turn can be used to purchase energy products and services. Veio's value will be based on a global market cap with localized market rates decided by smart contracts to determine the price of energy products. This system will quickly give people access to local energy markets, and incentivizes sustainable energy creation within a community.

✓ ***Value trading and investing for every human***

Veio provides a globally scalable vehicle for individual value creation and each person is then able to trade that earned value directly with anyone else on the planet. This localized value creation is not dependent upon trade within the global renewable energy market. In short, Veio harvests the colossal un-gathered value of the world's masses and focuses that value directly into sustainable energy infrastructure.

✓ ***Decentralized Applications***

Decentralized Applications (DApps) provide ways for anyone to generate value by participating in the waste-to-energy supply chain. By depositing trash at a waste-to-energy site, or using a toilet attached to a wastewater-to-energy system, anyone can contribute to the simplest business model on the planet. This is the power and potential of Veio Coin.

Veio's Impact on the Planet

✓ ***Veio fuels local innovation***

A direct and decentralized path to generating value through the conversion of renewables to energy will drive the proliferation of renewable energy at the local level. The creation of a transparent and efficient avenue to generating power from renewable energy sources is the backbone to any human-wide effort to properly manage environmental balance.

Veio's Impact on Prosperity

✓ *Market Potential*

World energy consumption is expected to increase at an alarming rate. From 2012 to 2040, the total world consumption of marketed energy is expected to expand from 549 quadrillion British Thermal Units (Btu) to an anticipated 815 quadrillion Btu in 2040 (International Energy Outlook 2016).

Using the US power grid as a reference, an operational capacity increase of 48% would require tens of dozens of new power plants to be erected, bringing with them an estimated multi-trillion dollar price tag and endless tons of additional pollutants.

✓ *Fair and efficient financing for the production of sustainable energy*

Authoring the most efficient green energy infrastructure finance system will generate invaluable market information. Detailed data management, analysis and machine learning will provide insight into local trends, best practices and economic forecasting indicators.

✓ *Power of first*

Being the first to market with a bottom-up, green energy crypto-currency will help us dominate the market. Approximately half the people on earth lack any banking access and will be excited about the opportunity to exchange waste products for either energy, or monetized for use in their local ecosystems.

The Profit Stakeholders and How They Make Money:

✓ *Energy Producers*

Industries that harness power from renewable sources will receive value per kilowatt-hour produced, dependent on the local electricity market value. This value can be traded to partners,

employees, governments, and local residents, or traded for fiat currencies through a decentralized exchange service.

✓ ***Fuel Producers***

In terms of waste-to-energy, individual and community efforts to properly gather and dispose waste will now be a value-generating activity.

ENERGY POOL

We will start by developing new services which will optimize energy trading. Firstly, we will establish the Veio Energy pool. The idea is to join together electrical power producers and consumers and enable them to trade electricity through the Pool. After successful registration everybody can join the Pool. But in order to actually trade electricity one would need to obtain Veio tokens (VIO). VIO's will be issued at the Veio token sale as a software and energy license to use the Energy Pool.

This is a simplified example of how Veio Energy Pool could work:

CONSUMER - First of all, registration through the mobile app is necessary to enter the Pool. Registration will be fast and easy and will enable quick and simple smart contract signing. This is all the consumer needs to do in order to start buying electricity from the Pool. If person A already has VIO from their participation in the ICO, he or she can simply use them to obtain electricity from the Pool. Other users will have to buy VIO on the exchange in order to buy electricity from the Pool. The app will allow this transformation automatically. Due to huge potential of electricity demand worldwide and competitive electricity price in the Pool, the demand for coins will grow constantly and with it also their value.

PRODUCER - Person B has a solar power plant and he is a producer of clean renewable energy. He is currently selling his electricity to huge trading companies, where his position to negotiate is weaker. By joining the Pool, he could get better compensation for his energy. He receives tokens, which can then be traded on the exchange to get fiat currencies. The app will have an option to automatically transform tokens to Euro, Dollars or any other currencies to minimize the producer's risk. A crucial aspect in developing a Veio Energy Pool is a mobile app. Veio is already developing an app in order to make it user friendly and simple. In order to be a part of

the Pool you have to register through this app. Once the registration is complete you join the Veio community and can immediately enjoy all the benefits offered, being a power producer, consumer or both (prosumer)

VEIO COIN PRE-ICO

Token Symbol: VIO

Token Type: ERC 20

Start Date: 3rd June, 2018 (12:00am GMT)

End Date: 1st July, 2018 (9:00pm GMT)

Minimum Transaction Amount: 0.1ETH

By participating in the token sale you will receive Veio tokens. As the only crypto currency we accept on the token sale is Ether, we decided to fix the amount of VIOs to the Ethers we gather.

The basis for token issuance is set at a ratio of 10000 VIOs per 1 ETH for pre-sale.

100,000,000.00(20%) VIOs will be available for purchase during the Pre-ICO.

Since we're launching a global digital currency, your contributions aren't going just to us; you're contributing to the global interest of renewable energy.

The Veio Token, Pre-ICO is an exclusive event. Veio aims to tackle the sustainable energy and global garbage problems by cryptographically amortizing all renewable energy sources. Our blockchain economic tools will generate massive shifts in human group behavior that are required to address complex global challenges.

This initial Pre-ICO is a token sale, and NOT a sale of a completed crypto-currency. We are leveraging existing blockchain technology to facilitate the creation and allocation of tokens during our initial Pre-ICO. Veio Tokens do not have a guaranteed monetary value, and there is absolutely no promise of profit or a return on investment.

The purpose and intent of these tokens are to be traded for a future crypto-currency of Veio Coins and electricity products. In other words, we are seeking angel investors who ultimately align with our vision and also desire to see the tools and technology we intend to develop to exist so that they can later leverage them on their own in a decentralized ecosystem.

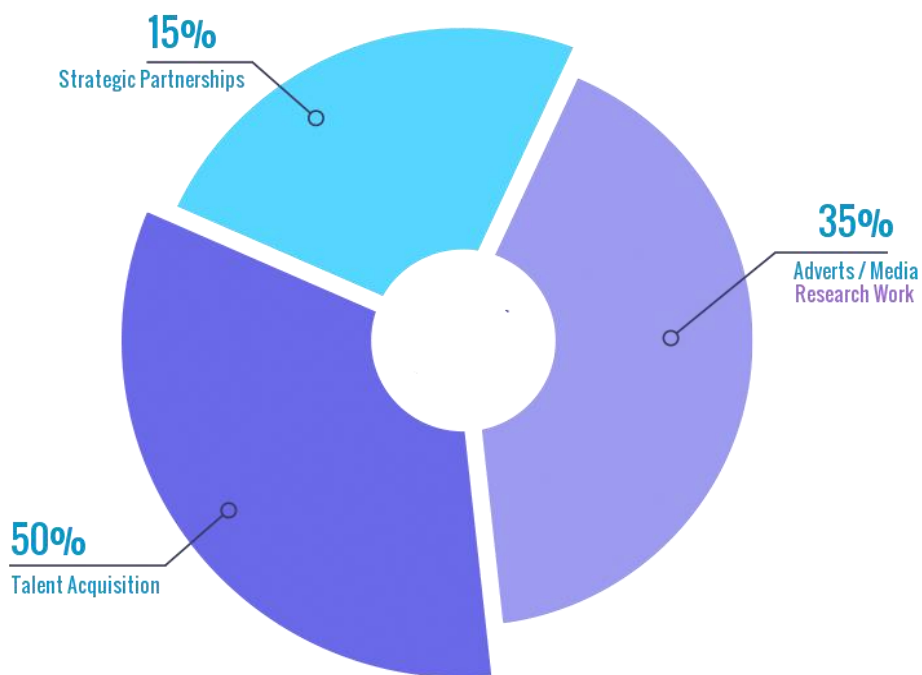
Our intention is to develop the blockchain tools and technology required to facilitate everything mentioned above in this white Paper, then release the Veio Coin crypto-currency and smart contract system for free. We intend to setup a governing body to oversee the future development of Veio Coin, but no one will truly own it as the system will be completely decentralized.

If this kind of risk scares you, then this is not the right investment opportunity for you. If this kind of opportunity excites you, then the most logical way to look at this is almost like a kick starter. While we believe there will be opportunities for crypto based profits given the capitalistic nature of the system we intend to develop, this is not a get rich quick scheme but an ideological investment in developing new blockchain technology to change the world by incentivizing renewable energy creation.

Veio Tokens will later be traded for Veio Coins when we launch our own crypto-currency in the future. The value of contributions in the Pre-ICO has the highest likelihood to gain the most crypto-currency. Pre-ICO funds will finance a globally focused team of industry professionals that will harness the power of the blockchain to solve planet-wide problems.

Usage of Funds – Veio Token Pre-ICO Event:

- ❖ Research and development of Veio Coin crypto-currency and smart contract platform
- ❖ Research and development of blockchain technology
- ❖ Establishing strategic partnership with energy producers and blockchain outlets
- ❖ Digital Marketing execution, including: global targeted advertising, press releases, videos, presentation materials, and branding
- ❖ Building a world renowned team comprised of experts in the renewable energy industry and blockchain enthusiasts
- ❖ Operating expenses, including: salaries, equipment, legal, and business travel
- ❖ Veio ICO Launch Event (date to be decided)



ROADMAP

- **Veio P2P PLATFORM**

Based on a phased approach, the Veio P2P Platform will connect energy producers and consumers. Users will be able to trade electricity directly; the final price and quantity will be determined by trading algorithms based on auction clearings on the Blockchain. The producer and consumer will determine the bid and the asking price of electricity, at which they would be willing to sell or buy, and trading algorithm and smart contracts will do the matching and settlement. The minimum and maximum prices of electricity will be determined by the contracts for electricity sold and bought outside the pool. During phase one; the Veio Platform will be developed for direct selling, purchasing and balancing responsibilities. Later, additional functionalities will be added and upgraded to the Veio Platform in order to cover ambitious objectives such as operating the flexibility market, or assets visualization across the value chain (substations, lines, EV chargers or electrification of heating).

- **IMPLEMENTING THE P2P PLATFORM ON A NATIONAL LEVEL**

Rules for trading, purchasing and supplying, contract signing, invoice issuing differs from country to country. Therefore, a business process with a user friendly interface that is compatible with national regulatory framework will have to be accomplished.

- **COMMERCIALIZING THE P2P PLATFORM**

Once the successful implementation is completed, our ambition is to export the model feature, customized for the adopting country. The Veio P2P Platform aims to offer attractive services and products in the context of P2P availability and future requirements. For this stage a new

level of features for the platform will be integrated, offering end-users the options to easily engage into the flexibility market. A decentralized energy market requires energy producers, consumers and load balancing. Using advancements on smart-grids, end-user customers of the Veio Platform will also aid the balancing of the electricity grid through demand response. For example, the agreements regarding the time frame for charging your electric car, the grid operator thus has more flexibility to manage and regulate electricity flow. And for these services they could get compensation from grid operator.

- **INCREASING THE TRADING VOLUME OF P2P PLATFORM WITH RENEWABLES AND ENERGY STORAGE**

Investments into renewables and energy storage could increase self-sufficiency and flexibility of the Veio ecosystem and increase the trading volume inside the Veio Pool. Platform users could by themselves ensure the storage of excess electricity during low demand and the option to release it as demand rises.

- **INCREASING THE MARKET SHARE**

At this stage, the platform will be fully established and our ambition is to engage with new partners across the value chain, from academia to transnational grid operators. We would like them to use a robust business model while contributing to a broader use of the Blockchain within the energy market.

Contribute to the future of renewable energy

Veio Coin's mission is to become the primary energy unit of cost for renewable energy throughout the world, blending the lines of conscious waste management and renewable energy to create unparalleled value for contributors, and for our planet.

Converting Tokens to Coins

Veio Tokens (the "Token(s)") will be tradable on the ERC-20 token compatible platform. During the time period following the Pre-ICO and ICO, the Veio Coin Group will initiate development of the Veio Coin (the "Coin(s)"), including the associated blockchain and smart-contracts. Upon the completion of Veio Coin and the ecosystem, a launch date will be announced either by email and/or posted on the Veio Coin website. We anticipate releasing a 30 day notice informing members of the expected launch date of the Coin, as well as additional information regarding the TRADING of Tokens for Coins.

CONCLUSION

Veio employs an international team with vision, expertise, innovative thinking, openness, management skills, marketing knowledge, and developers coming from various backgrounds from IT, energy sectors, finance, blockchain, and more. With blockchain technology evolving at this rapid pace, we see its implementation into the energy sector as unavoidable. Being the first in the market, plugging the crypto-world into electricity is a great opportunity that you should not miss. Welcome to the electro-blockchain revolution.

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