

WIND ENERGY MINING



WHITEPAPER

Disclaimer

Before you take the decision to take part in the token-sale, please, read carefully and take into account this disclaimer.

The document aims to present general information on the project. Nothing in this document shall be deemed to constitute a prospectus of any sort or a solicitation for investment or guarantees of future profits, nor does it in any way pertain to an offering or a solicitation of an offer to buy tokens etc.

The information in this document constitute "forward-looking statements" and is not a statement of any historical fact. The statements, which are contained in this document, are forward-looking and contain statements concerning intentions and current beliefs and expectations of the project team. The forward-looking statements are not promises or guarantees of any sort.

References to any studies, projections, and information in the public domain are used in this document in the purpose to point out the credibility of the source of information and do not guarantee the accuracy and comprehensiveness of this information.

The token constitutes a debt and shall be regarded as a short-term loan aimed to fund-raising and further repayment of the borrowings at a fixed price. The token does not provide voting rights in the company, shares of the company, participation in the activities of the company, rights to receive dividends, possession of tangible assets or other such rights.

The company, project team, and any third parties invited to participate in the development, implementation and carrying out the project, do not incur responsibility for any losses connected with the acquisition, token resale or actions with tokens not required by the terms of the token-sale agreement.

The company, the project team, and any third parties invited to participate in the development, implementation and carrying out the project, do not bear responsibility for any consequences connected with action of force majeure not dependent on the will of the company, the team and the third parties participating in the development, implementation and carrying out the project (equipment breakdown or destruction because of natural disasters, fire; steal or deliberate damage of the equipment by third parties not relating to the company and the project, changes in legislation, dramatic cryptocurrency market fluctuation and other force majeure events)

Due to the nature of the USA legal system with respect to crypto assets and securities, the purchase of the project tokens by the USA citizens, subjects, or residence permit holders is strictly forbidden. In case false information on nationality is provided, or IP address is changed, or any other action that might cast doubts on the nationality of the token purchasers, and directly or indirectly point to the USA citizenship or nationality, we invalidate your token and return your money at a nominal price of the token. In case the tokens are purchased by the USA citizens, subjects, or USA Green Card holders under false pretence, and further appeal to SEC by the aforementioned individuals with a statement on the company token purchase, or when, as a consequence of the above-mentioned actions, the company faces claims from SEC, the token purchaser bears full legal and financial responsibility for any consequences, and we reserve the right to recover any losses by way of recourse.

The information on the token sale, presented in this document, is a brief description of the process. The ICO details will be provided on the ICO homepage. WEM tokens purchase is not refundable and cannot be canceled.

Please note that any investment might be connected with a risk of possible loss of funds. Therefore, before you take part in the ICO, you should weigh your decision carefully.



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1. About the company

Mission

Our company energy focusing on energy and its wide as new development

Vision

Our vision is effective, to accordance standards, to company's



is an electric producer green production use, as well market

to be develop in with modern increase

competitiveness at home and abroad

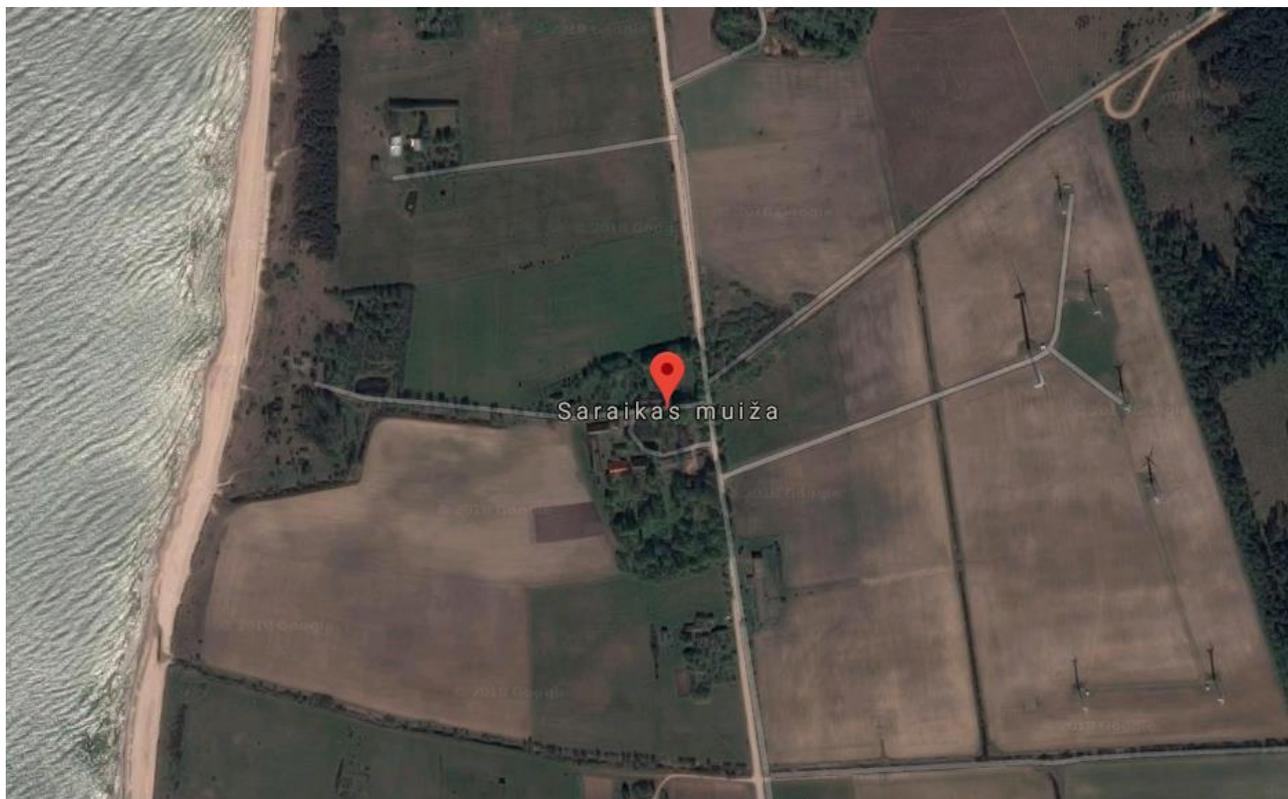
Goal

Our goal is to make the most use of our intellectual resources and experience to increase production and marketing capacity

The Latvian company ETB Ltd. has been dealing with wind energy production for more than 10 years. The company owns 7 wind-driven electric power stations with total capacity of 4.5 MW. The power stations are located in the rural area in 800 meters from the seashore and occupy a total area of about 30 hectares, which is also our property. The geographical location of the wind park - 56.696212° north latitude and 21.066440° east longitude - are ideally suited for wind energy production, since wind in these parts is an inexhaustible natural resource, which makes it possible to produce about 8 thousand megawatt hours of green electricity per year. Against this background, taking into account the experience of successful work in the industry, we see considerable potential for the development of the company - advanced technologies on the market of electricity production

equipment allow to modernize production and sufficiently increase electricity production thus contributing to the development of alternative energy in general.

<https://goo.gl/maps/2fVebSGXKbK2>



2. The problem

Environment and power generation

To date, the problem of global warming and emissions of greenhouse gases has become a particularly urgent issue world community of nations attempts to resolve both at the level of regulation and at the level of real use of green-energy technologies. The catastrophic consequences of natural disasters manifest themselves practically in all spheres of life. Anthropogenic impact on the environment, among other things, is acknowledged as the reason for changes. Global energy production shows unpleasant statistics on greenhouse gases emissions since it is based mainly on the use of fossil energy sources. The United Nations Framework Convention on Climate Change included measures to mitigate and adapt to climate change, but greenhouse gas emissions continued to rise. In 2015, Paris Agreement on Climate Change was adopted. The purpose of the agreement is to retain the global temperature rise below 2 degrees above pre-industrial levels and to enhance the ability to adapt to the adverse effects of climate change. The parties of the agreement reached common ground on the need of national contribution to the achievement of climate objectives. One way to achieve these objectives is to increase renewable energy production and consumption. On 28 November 2017, the Energy Committee of the European Parliament approved the changes in the EU directive on renewables, according to which the share of renewable energy consumption should be increased up to 35% by 2030. At the same time, the European Parliament noted the need for financial support for measures which increase the share of electricity produced from renewables, highlighting that the measures should be stable and predictable, and the national authorities should avoid frequent and retroactive changes.

Political risks and bureaucratic obstacles for green energy development

Since we have been producing green electricity for many years now, we have had the first-hand experience of the problems renewable energy producers face. In spite of the high level of development, the building of "green" power stations still requires a huge outlay. The industry has a strong need of subsidies, without which the renewable energy production becomes uneconomical. However, the green electricity producers and those who are going to produce it, often face reluctance of bureaucratic entities and political elites, closely related to oil and gas monopolies, or acting in support of their perceived interests, to support such production. Moreover, producers face deliberate intention to impede their development. Despite European Council plans were amplified long before their official publication, it is not uncommon when possibilities of the producers are limited by the bodies responsible for the development of green energy production, and new unreasonable requirements making the production impossible in principle, are introduced. As a result of adopting retroactive decisions, the payback problem is thrown into sharp relief. The possibility to build new green power stations is doubtful, as does the achievement of general European targets, because the political and bureaucratic obstacles connected with oil and gas sector lobbying, limit the freedom of actions of the industry willing to develop green energy production.

Electricity and cryptocurrencies mining

One more serious problem that appeared against the backdrop of explosive Bitcoin growth in 2017 is the influence on climate presented by mining. With the further development of cryptocurrency market, the popularity of mining, which plays the leading role in the maintenance of the net efficiency, grows and is carried out both by private persons and in the industrial scale. As it is known, the work of the system requires huge power consumption.

The cryptocurrency market grows, and computing power requires more energy. Unfortunately, as indicated, the most part of the energy consumed is produced from fossil sources, and the share of renewable energy is too small to provide the operation of equipment for cryptocurrencies mining.

3. The proposed solution

As a part of a solution of these issues, we see the usage of renewable energy for cryptocurrency mining. The advantage of such solution would be that production, in this case, has no negative environmental impacts - green energy helps to obtain "green" cryptocurrency. At the same time, this lets to address the problem with sales of produced green electricity and to move away from the need for state support. Given this, an absolutely market mechanism for promoting green electrical energy production appears.

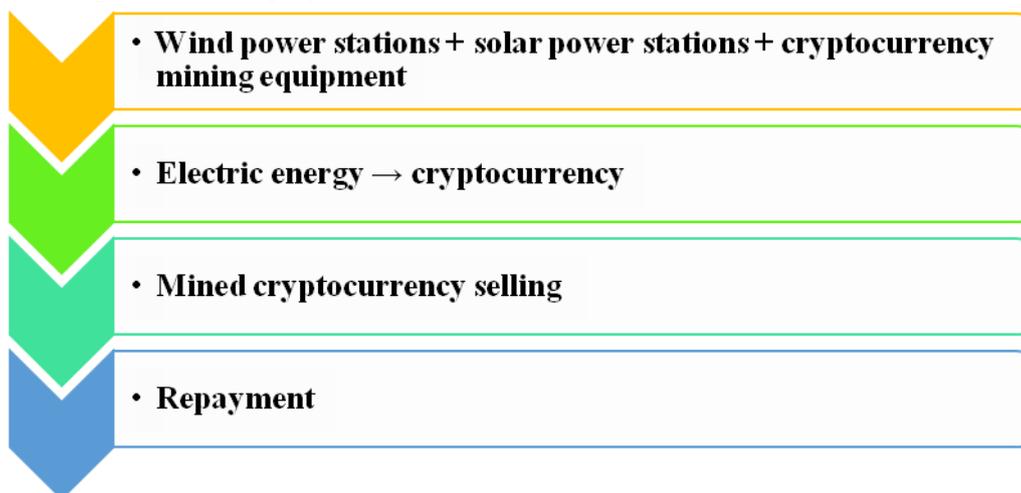
The project might serve as an example of how to develop renewable energy production without state aid, using benefits of free markets, and demonstrates an alternative way of green electricity usage. At present situation on the market, it is more profitable to spend electricity on mining than just sell it. 1 ETH production requires about 1,200 kWh of electricity. Based on the cost of Ethereum according to the current rate, we can calculate the cost of 1 kWh of green electricity sold in the form of ETH.

The cost of 1 kWh of green electricity sold to electrical network	The sales price of 1 kWh of green electricity converted into ETH
0.09 EUR	0.62 EUR (according to the exchange rate on 15.02.2018)

Green electricity selling in the form of cryptocurrency will help to obtain deficient funding for the introduction of new productive capacities, which will raise output in the production of renewable electric energy, and this will lead to the increase of its share and contribute to improving the environmental situation in the future.

4. Project description. SWOT (strengths, weaknesses, opportunities and threats analysis)

We plan to use renewable electric energy, which is produced by our power stations, for mining for cryptocurrencies, which would then be sold at an exchange and provide the return of investments and further development of the project.



To this end, we intend to increase our wind park capacity and additionally install highly productive solar panels of the latest generation with the total capacity of 2MW, which will serve as power supply for a cryptocurrency mining farm together with wind power stations.



The integration of the wind park with solar power stations will let to increase the green electric energy production capacity. The favorable geographical location of the enterprise contributes to

effective equipment cooling. At later stages upon completion of the project, the company plans to renew and reconstruct the existing wind park and to double the wind power capacities.

The project envisions the installation of 500 mining units, 12 GPU each (Radeon Vega 64), near the power generation source, as well as 1,000 ASIC units (Innosilicon A6 LTC Master, Bitmain Antminer D3, Bitmain Antminer S9). The implementation of mining capacities is planned to be done in phases.

	Positive factors	Negative factors
	<i>Strengths</i>	<i>Weaknesses</i>
Internal environment	<ul style="list-style-type: none"> - Registered legal body - Broad experience in the green electricity production industry - The amount of produced energy makes it possible to substantially enhance its utilization spectrum - Clean energy - Free electricity - The territory is the property of the company - Geographical location - Constant development of the company 	<ul style="list-style-type: none"> - Dependence on weather conditions - Dependence on cryptocurrency exchange rate
	<i>Opportunities (factors, which would help the company to develop)</i>	<i>Threats</i>

SWOT

External environment	<ul style="list-style-type: none">- Increased efficiency in production due to development of technologies- Implementation of new productive capacities- Professional development of staff- Shifting away from the state support need- EU policy for the promotion of environmental health	<ul style="list-style-type: none">- Changes in legal regulations- Dramatic market fluctuations
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5. ICO objectives and details

ICO objective: fundraising for the further development of wind energy production, through an Ethereum based token issue.

WEM tokens constitute a type of debt.

WEM tokens sold at 0.001 ETH, the company intends to buy back from the purchasers at 0.0015 ETH. The buyback is planned to be started in 9 months after the ICO and fundraising. We are going to buy back all tokens within the space of 2 years.

More detailed information on our token, possibilities of buying, and buyback you will find on our homepage www.etb.lv

Token sale conditions

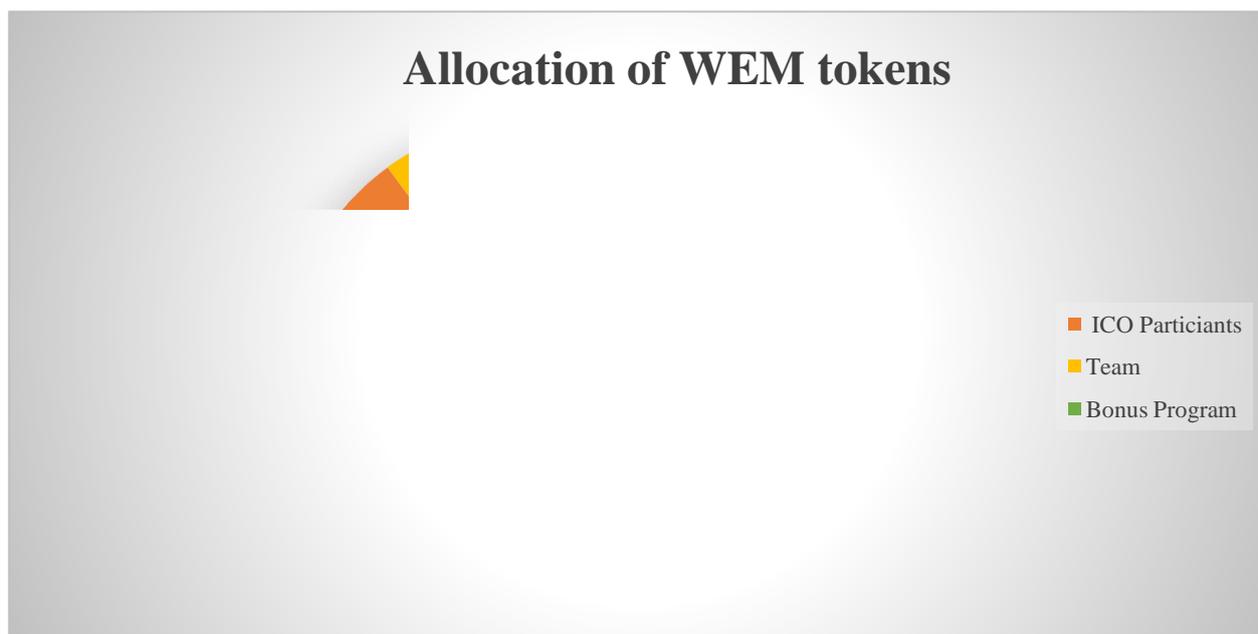
Symbol	 WEM
Total token number	34, 000, 000
1 token price	0.001 ETH
Aim to raise	27,000 ETH
ICO launch	20.03.2018.
Duration of the ICO	till 20.05.2018.
Available for sale	90% of the total token number
Team, bounty	10% of the total token number
Token nature	Debt token
Access to tokens	On the ICO homepage

Allocation of WEM tokens

90% of the tokens are sold to investors within the ICO

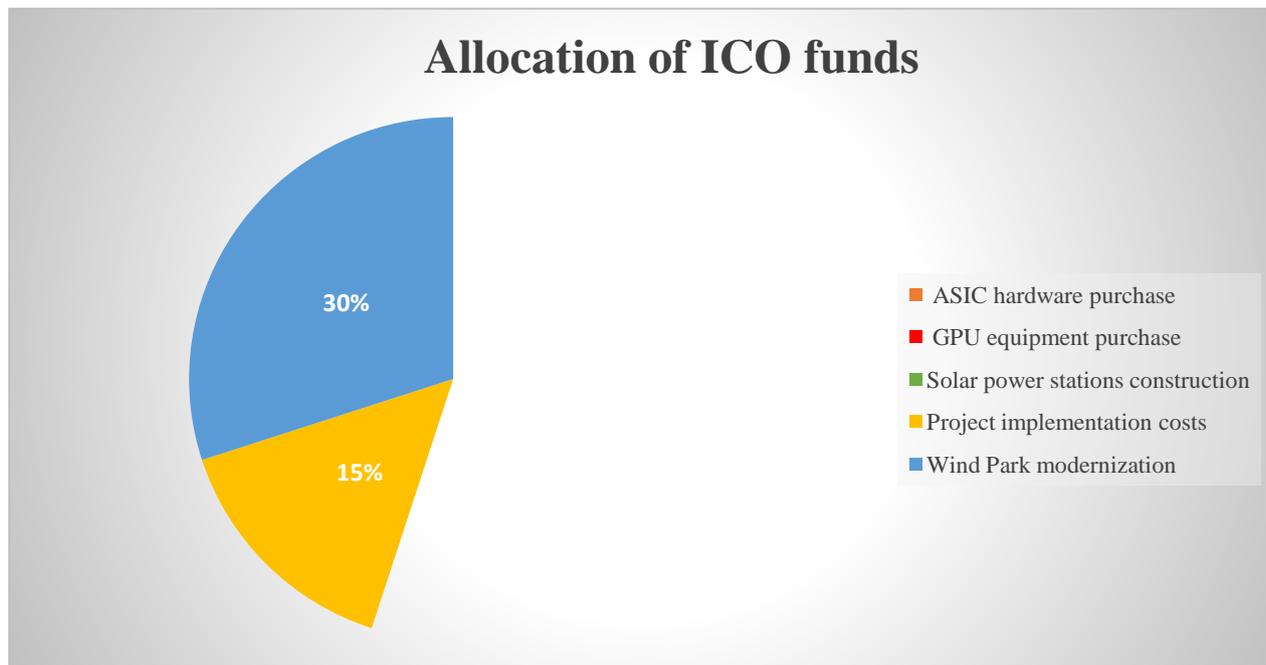
5% of the tokens are reserved by the company to maintain the project

5% of the tokens are provided for bonus programs



Allocation of ICO funds

If the planned amount is not raised (or bigger amount is raised), the project costs will be reduced or increased proportionally according to the amount of raised funds. The project will be started within the available amount.



In the first phase of the Project, we plan to purchase 1,000 pieces of ASIC hardware (Innosilicon A6 LTC) and 500 GPU mining units (each unit consists of 12 Radeon Vega 64 video cards). For the moment, the equipment we have chosen, is most appropriate to the aim of our project - use of mining to increase renewable electric energy production capacity. If in the process of the project implementation, we decide to purchase other equipment, or, according to the fundraising results, the number of purchased equipment changes, we will make a recalculation and update information. We also plan to stabilize the capacity of our existing wind park with the installed capacity of 4.5 MW by means of solar power stations with total capacity of 2 MW, thereby increasing the nominal output of our renewable resource park up to 6.5 MW. Further, modernization and increasing of our wind park capacity are envisaged.

Purchase of mining equipment	
1,000 ASIC (Innosilicon A6 LTC)	7,600 ETH
500 GPU (12* Radeon Vega 64)	3,350 ETH
Construction of solar power stations with total capacity of 2 MW	4,000 ETH
Project implementation costs (construction, connection to networks)	4,000 ETH
Modernization and increasing the capacity of the wind park	8,050 ETH

TOTAL	27,000 ETH
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Reliability of investments

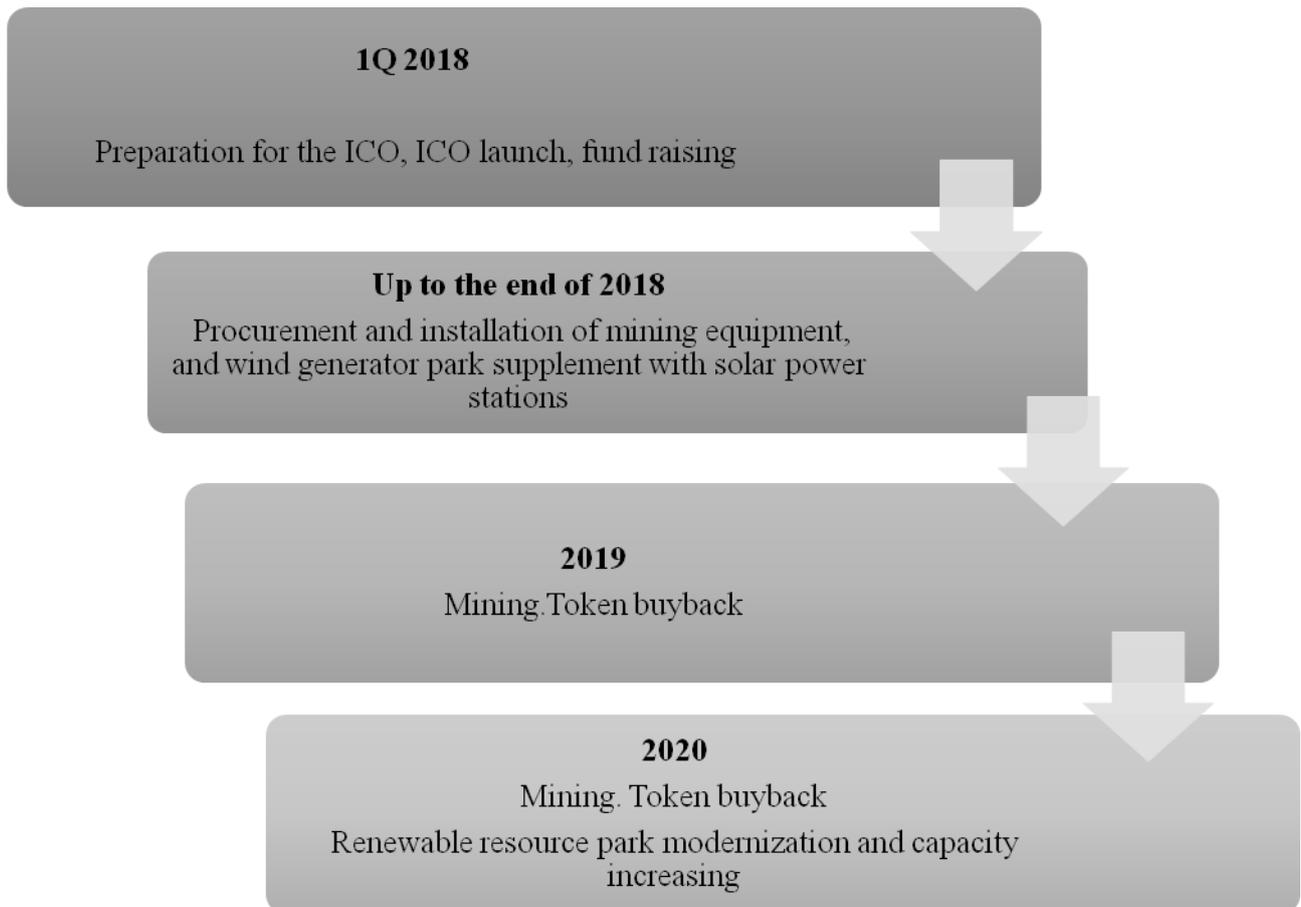
The main advantage of our project is that it is not necessary to buy electricity for mining. The usage of own electric power sufficiently reduces cryptocurrency mining costs. This brings positive benefit to the profitability of the project and provides guarantees for the return of investments.

All the project promotion stages will be published on the website of the project, under the "News" section. You can periodically review information on the operation of the equipment, and take a virtual tour around the park territory there, too.

	Electricity consumption MW	Performance of the equipment Gh/s	Indicative annual income, ETH
ASIC Innosilicon A6 LTC Farm	1.5	1,230	12,100
GPU Radeon Vega 64 Farm	1.8	240	7,200
Total for the park	3.3	1,470	19,300

*The economic indicators of our project are based on the cryptocurrency market situation in February 2018.

6. Roadmap



7. Our team:



Sigita Bumeistare
Project lead

[\(https://www.linkedin.com/in/sigita-b%C5%ABmeistare-67543415b/\)](https://www.linkedin.com/in/sigita-b%C5%ABmeistare-67543415b/)

Sigita has been working in the management of our company for more than 10 years. She took part in all projects of wind energy station construction. Master's degree in Philology and continuous personal and professional development help her see not only overall company development strategy, but also go deep into each individual nuance of a project.



Yelena Berendyayeva
Project manager

[\(https://www.linkedin.com/in/jelena-berendjajeva-4b540259\)](https://www.linkedin.com/in/jelena-berendjajeva-4b540259/)

Yelena has been working in the renewable energy sector for many years. She uses her 20 year translation experience in the areas of law and technical translation to carry out various projects. An education in the areas of Project Management, Entrepreneurship, Blockchain in the Energy Sector, and Global Resource Politics helps her show her strengths.



Jann Ehlvest
Public relationships

Jaan is a Grandmaster of chess. He has worked as a business analyst at Merrill Lynch investment bank in London. An extensive experience of work in international sport organizations and a degree in psychology from the University of Tartu make him an irreplaceable communication specialist.



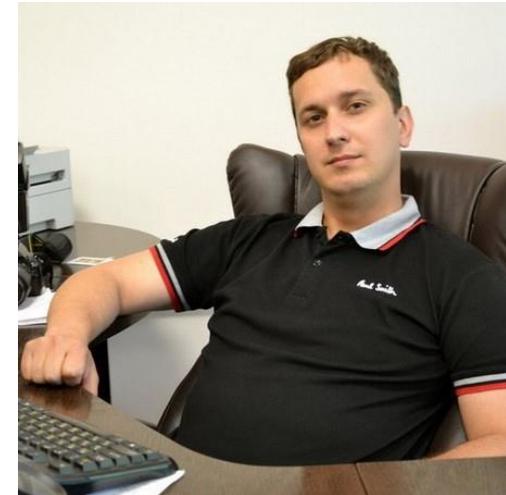
Girts Lejasmeiers
IT, WEB, Blockchain manager

Girts has a long experience of work as a programmer and a service technician. A good command of different programming languages lets him take part in various IT projects. A higher education in programming from Riga Technical University gives him a stable foundation for further development.



Dmitry Troshkov
IT, WEB, Blockchain manager

Dmitry has been working in the IT field for 14 years. He has an experience in IT project management, WEB development and as an IT consultant. Dmitry has worked with multiple start-ups. He has got a Diploma in Computer Science from Riga Technical University and an education in Business Management in Digital Environment.



Igor Emelyanov
Blockchain developer
(<https://www.linkedin.com/in/igor-yemel-yanov-559639158/>)

Igor received his higher education at Tsiolkovsky Kaluga State University, has been developing smart contracts since mid-2017.



Victor Belov
Lead Blockchain developer

(<https://www.facebook.com/belozy>)

Candidate of physical and mathematical sciences in Applied Mathematics and Informatics, «MATI» - Russian State University of Aviation Technology. Victor has been working on the development of smart contracts and security in the field of blockchain technologies since 2016.



Denis Shilin
Blockchain Adviser

(<https://www.linkedin.com/in/денис-шили-091519158>)

Denis Shilin has got medium polytechnic and higher economic education (The Budget and Treasury Academy). Advisor in the field of smart contracts and ICO since 2017.



Our partners and advisers:

Our partner on legal matters: Magnusson Law
<http://www.magnussonlaw.com/>



M A G N U S S O N



8. References to sources of information

European Parliament, press releases, 28-11-2017: Cleaner energy: new binding targets for energy efficiency and use of renewables

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The text of the 2015 Paris Agreement:

https://unfccc.int/files/meetings/paris_nov_2015/application/pdf/paris_agreement_russian_.pdf

COMMUNICATION FROM THE COMMISSION Guidelines on State aid for environmental protection and energy 2014-2020:

[http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52014XC0628\(01\)&from=EN](http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52014XC0628(01)&from=EN)

<https://forklog.com/set-bitkoina-potrebyaet-bolshe-elektroenergii-chem-krupnejshie-elektrostantsii/>

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