



AN INTRODUCTION FOR



GREENCOIN

The first decentralized platform based on sustainable green systems to solve real problems in the world, connecting green systems manufacturers and Installation companies or certified individuals directly with buyers

WHITEPAPER

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www.Greencointoken.com

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ABSTRACT

This technical document explores the challenges of renewable energies and the production of nourishment for the human being; a change of technological paradigm that offers a transforming potential,

Greencoin, a platform with international vision with Blockchain technology based on cryptocurrencies, is a system of mutual agreements which allows accelerating the pace of development and increasing the turnover of all companies that will join the platform. The currency of the platform called GREENCOIN (GNC), is one of the first cryptographic currencies that is integrated into the real economy, in the daily life of people. The basis for the distribution of GNC in the domain of real economic activity is the loyalty system, this is the most important and central tool of the platform.

The main objective of the platform is to unite the socially responsible companies that support and build products for the creation of systems that will contribute to the sustainable development of the planet in accordance with the principles of a green economy.

Greencoin is a platform focused on connecting green systems manufacturers and Installation companies or certified individuals directly with buyers around the world that will help combat the main problems that humans face today, a knowledge exchange platform on demand with a decentralized market enabled for small and large companies. The platform simplifies the generation of potential customers and B2C interactions through the administration of an offer / request ecosystem, decentralized Escrow support based on Blockchain and implementation of rules and standards established to do business through smart contracts.

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1. INTRODUCTION

As a society is more developed, it consumes more energy, but the energy obtained from coal, oil and gas is not renewed and is being exhausted year after year.

The smart thing is to take advantage of other sources of energy that are on our side which are renewable year after year, do not exhaust, and also do not pollute the environment.

Renewable energies come from the sun, the wind, the water of the rivers, the sea, the interior of the earth, and the waste. Today, they are only a complement to conventional fossil fuels (coal, oil, natural gas), but it is expected to end up replacing these latter.

The Greencoin platform and its team of entrepreneurs and advisors will work closely with creative and competent professional manufacturing companies that are focused on creating green systems to have a better world. Currently there are 3 green systems that are being used and have been very helpful for the sustainable and ecological development of the planet, as well as the benefit it brings to people, unfortunately its global expansion is very slow.

- Solar systems
- Hydrogen systems
- Aquaponics system

What united us in the first place and will keep us united is the impact that our actions have on our planet and the impact that decentralized technologies can have on our lifestyle and our evolution.

With these 3 systems, we will not only help our planet and the environment, but we will also fight against the main problems that human beings face today, which are:



- **Environmental problems.** Our environment is constantly changing. There is no denying that. However, as our environment changes, so does the need to become increasingly aware of the problems that surround it. Global warming has become an undisputed fact about our current livelihoods; our planet is warming up and we are definitely part of the problem. However, this isn't the only environmental problem that we should be concerned about. All across the world, people are facing a wealth of new and challenging environmental problems every day.
- **Nourishment.** One in seven people in the world go hungry, this being the main global challenge of our times. In addition to the suffering of millions of people without food, hunger is also holding back progress in areas such as health and education.
- **Fuel (Gasoline).** The use of fossil fuels leads to a series of problems that must be taken into account when producing energy. Currently all, or almost all, are clear that many of the resources provided by nature are not unlimited, but that is not the biggest problem. Its repeated use is not beneficial for the planet and leads to conflicts. The use of the automobile in the United States is one of those that contribute the most to greenhouse gases, the harmful consequences are a reduction of the ozone layer and warmer temperatures. The reduction of the ozone layer threatens human health, vegetation, and the marine ecosystem. It contributes to the rise of the waters, which threaten the coastal regions.
- **Electricity.** Electricity is one of the most used forms of energy in human activity; however the majority of electricity is currently generated by burning fossil fuels (coal, oil, and natural gas). The burning of fossil fuels contributes to the accumulation of greenhouse gases, which is considered as the main factor of climate change and global warming.

The ultimate goal is to create a productive environment, an autonomous, decentralized and business-focused community using the power of blockchain technology for the distribution of systems that help the sustainable development of the planet, using the Greecoin platform that is driven by Ethereum, a computing platform distributed in blockchain, which simplifies the management of commercial smart contracts and guarantees their enforceability.

2. VISION

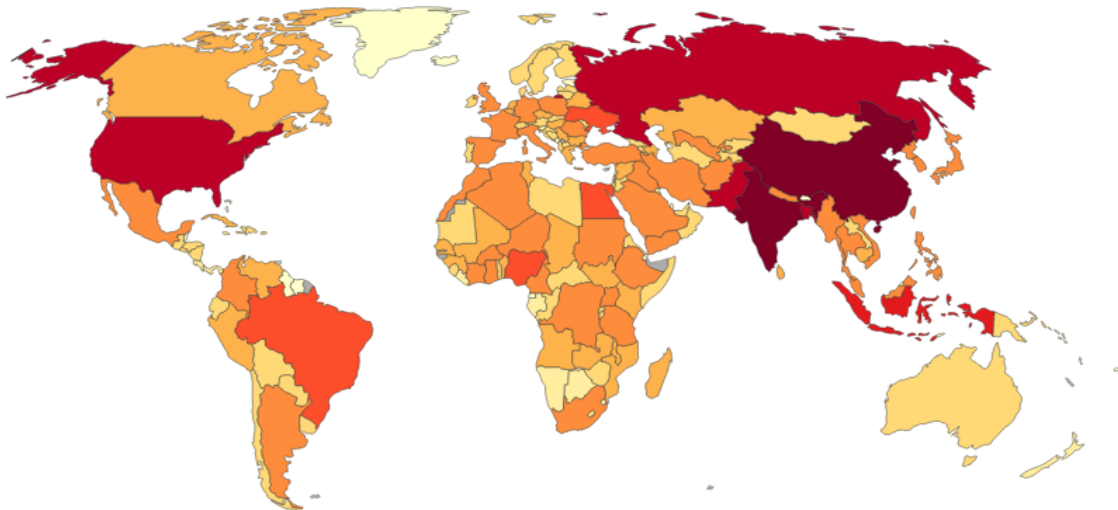
Become a leading global platform in the distribution of green systems and products that help people to combat the main problems that human beings face today. Teach and educate people how easy it is to produce food and energy with systems that help the sustainable development of the planet. The users of the platform will have access to an extensive group of tutorial-type videos with information on the systems they use and the installation of the systems step by step.

We will have professional spokespersons with experience in all the green systems to represent and talk about those systems to attract more green systems manufacturers and buyers to the platform to experience and know for themselves how we can make a difference using Blockchain technology and smart contracts to expand the industry, taking care of our planet and reducing the main problems that we face today, that have been the cause of many deaths around the world such as famine, the burning of fuels that are also responsible for the death of around half a million people in the world and is also causing between 4 to 5 million cases of chronic bronchitis, as well as millions of cases of other serious diseases. (OMS) 2011, in order to provide people with electricity and fuel (gasoline).

Absolute number of deaths from outdoor air pollution, 2016

Absolute number of deaths by country attributed to ambient (outdoor) air pollution of particulate matter (PM) and ozone (O₃).

Our World
in Data



While mentioning armed conflicts that have occurred in the world although the causes can be grouped into several classes, economic causes are usually the most common and are present throughout human history. The economy is the science that studies how to distribute the means that are, by definition finite, humanity must coexist with the idea of scarcity from its origin, the conquest of goods, territories, resources, everything that results useful or a profitable benefit can trigger a war. Political power can induce the outbreak of this type of conflict to try to perpetuate itself in power. Examples range from fights between groups of hominids to the wars for control of oil in the Middle East, which even involve countries that have to postulate themselves as moral examples of civilization. At present a war could be produced by the struggle to control and exploit the resources of the planet. As stated by BM when in his report analyzing conflicts in the last 4 decades he affirms that ethnicity, race or religion play a little significant role, but the chances of a civil war skyrocket when oil is discovered.

3. THE KEY

Sustainability is the key to prevent or reduce the effect of environmental issues. There is now clear scientific evidence that humanity is living unsustainably, and that an unprecedented collective effort is needed to return human use of natural resources to within sustainable limits. For humans to live sustainably, the Earth's natural resources must be used at a rate at which they can be replenished (and by limiting global warming).



4. The main reasons for the failures of expansion of the industry:

- **We realized that Green systems manufacturers all over the world need a place for further development and product launch to the international market.**
- **Manufacturers getting into a global market requires considerable investments at the early stage and further monthly expenses for the maintenance of the online shop.**
- **Lack of customer's confidence in an unknown seller.**
The customer prefers verified sellers who offer goods of confirmed quality, while the unknown sellers with no reputation have to compete with them.
- **Lack of proper "online sales pitch" for items.**
Each purchase, especially the one made online, is based on many parameters. The lack of the product description, parameters, good-quality photos, video overviews and customer reviews negatively impact sales.
- **Impossibility of automatization.**
Manufacture owner is not ready technologically to make an online store completely automatic;

5. Greencoin Solution.

One of the main features of Greencoin is the use of Blockchain technology and smart contracts, what will make the platform transparent, open and as safe as possible for both transaction parties, reduction of transaction costs and business costs, and simplification of the purchase process.

Greencoin a platform created for buyers, green systems manufacturesrs and systems installers all over the world, with an easy to use online store interface,

Greencoin integrates all the necessary tools for starting the expansion and promoting the products to other countries' markets.

Transparency of information makes it possible with modern e-commerce form, where each manufacturer will have a personal page with Greencoin-certified products available for purchase, and buyers will be able to make purchases from their laptops or mobile phones. All transactions will be processed with smart contracts.

Decentralization, globalization and the opportunities presented by the use of cryptocurrency in the project are our competitive advantages over other business solutions existing in the industry today.

6. GREENCOIN ECOSYSTEM

6.1. OVERVIEW

The GNC ecosystem will become the first global decentralized platform where everyone can buy products directly from green systems manufacturers and hire local installers for such ecological systems, enjoy low transparent prices for a wide range of high quality systems, and save on direct promotions.

Changing the commercial strategy within the revolution driven by companies and manufacturers to optimize an efficient process of acquisition and production to reduce overall costs and increase revenues.

The core of the Blockchain adoption is a shared sense of trust between buyers, manufacturers and local installers based on a more transparent chain system, where small to medium-sized manufacturers can access a blockchain and be a supplier in spaces where they are currently hidden.

Decentralization and the opportunities presented by the use of cryptocurrency in the project can cover the needs in speed, global market access, and transaction security.

One of our key goals is the introduction of a decentralized green systems marketplace to audiences that have little experience with cryptocurrencies and likely to have little-to no knowledge of blockchain-based technologies.

6.2. Greecoin's pathways for decentralization of ecological system manufacturers.

Manufacturers face when dealing with unknown and non-transparent purchasers' profiles and their buying histories. Manufacturers want to ensure their orders are paid on time while purchasers are confronted with delays when unsure if a manufacturer can produce their product within specification needs.

With these technologies, integrated production and purchasing processes would work without problems, which would save time and costs; improving efficiency and increasing scalability and security.

With Smart Contracts and Blockchain, decentralizing the green systems manufacturing, makes the entire system more accessible, transparent and profitable to all participants and with a faster expansion potential.

6.3. PARTICIPANTS OF THE ECOSYSTEM

The ecosystem will be built according to a scalable and decentralized approach that guarantees stability and long-term sustainability.

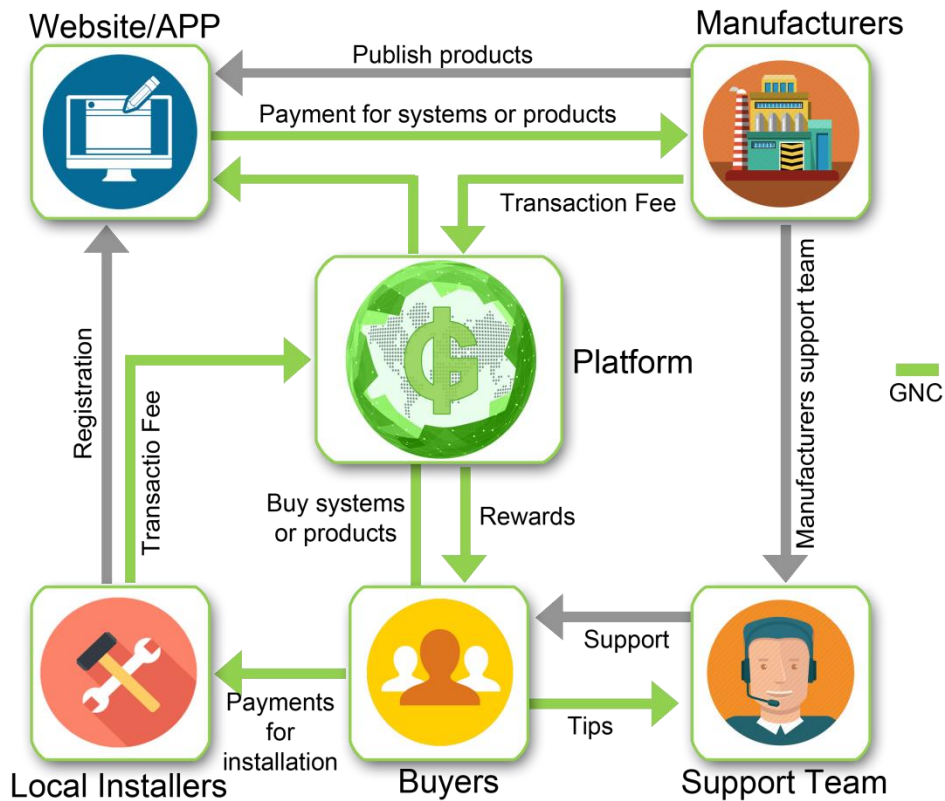
The ecosystem will involve the following participants, who will participate as shown in the following diagram:

- Platform
- Website & APP
- Manufacturers
- Buyers
- Support team
- Local Installers



6.4. PLATFORM

The GNC platform is a decentralized marketplace that allows green systems manufacturers and installers to join, publish their products for sale and offer their installation services, carry out promotion and loyalty campaigns, and get feedback from buyers, and manufacturers or installer with a good performance can receive tips from buyers, the platform It enables buyers to order those systems and facilitates the order fulfillment process.



How it works?

- Manufacturers publish their products or systems to the Web/App.
- Users buy products or systems pay
- Manufacturers ship products to Buyer s.
- Manufacturers provide technical support to users.
- Buyers can hire local Installers.

6.5. Main advantages of GNC platform:

- Extensive and easy-to-use service.
- Low fees.
- Low transaction costs.
- Detailed sales analysis.
- Advertising support of your business.
- Payment in popular cryptocurrencies (BTC, ETH, etc).
- International markets access.
- Transparent and decentralized review system.
- Tools for customer communication and financial reporting.
- GNC token payment for goods and the platform services at special price.
- On GNC Platform, customers Manufacturers and installers can interact without restrictions.
- Strong reward network to Incentivizing Buyers, Manufacturers and Installers.
- Transaction transparency ensured by the blockchain technology.
- Trustable, Ideal for charitable foundations and organizations.

6.6. BENEFITS FOR PARTICIPANTS

Benefits to buyers

- High quality green systems and products.
- Systems and products bought online easily and conveniently.
- Convenient and simple search for green systems and products.
- Decentralised and secure Payment
- Access to local systems installers.
- Updated on new systems, techniques and technologies.
- 24/7 support team
- Access to the global market

Benefits to manufacturers and installers

- Full control of product or service pricing and listing.
- A unified ready-to-use interface
- Marketing and promotion directly to buyers
- Marketing expenses reduction.
- Fast and detailed customer feedback
- Payment convenience
- Large clientele
- Assistance in product presentation.
- Global advertising network.
- Access to international buyers.

To become an ecosystem participant the user creates an account on the Greencoin Platform. During registration the system will create a user profile and a wallet. Each participant of the ecosystem will be provided with a wallet that will keep all the data in the decentralized database and will interact with other parties, using smart contracts.

We plan to place the GNC token in exchange of cryptographic tokens, giving the opportunity to buy them openly. (to residents of countries where the purchase of digital tokens does not violate local laws).

6.7. THE PLATFORM ROLES

- The creation of tokens and the launch of tokens to finance development and expansion.
- Establishment of a decentralized, fair, and safe model for the execution of orders.
- Development of smart contracts to execute the payment of the order.
- Launch of the website and the client application, and web interfaces for manufacturers.
- Creation of an effective incentive model for all parties to join the Greencoin ecosystem.
- Development of active marketing campaigns.
- Development of the regulatory aspects of the ecosystem.

6.8. GREENCOIN WEB AND APP

The Greencoin ecosystem will become the first decentralized global market where buyers can buy ecological or as we call them green systems or products directly from manufacturers, enjoying low and transparent prices.

The Web/App will only be designed with a single purpose, to sell green systems and products that contribute to the sustainable development of the planet.

- ✓ Energy System
- ✓ Hydrogen System
- ✓ Aquaponics System
- ✓ Other ecological and sustainable systems,

Greencoin will have different types of systems already designed for its full functioning available on the Web/APP in order that users have a simple interaction with the Web/App and can choose products or systems faster and easier. To make it simple and convenient, it is required that the products and systems of the Greencoin Web/App have several defined parameters; such as name, category assignment, volume, price, description, sizes, designs, etc, which facilitate the search and selection of products to order. In addition, the development of the platform and the GreenCoin token, offers new opportunities and helps increase sales for manufacturers that have focused on fighting to create essential and technological products that will help us human beings and our planet in many aspects so that in the future we will see a shocking change with our nature that currently deteriorates more every day.

That is why we are attracting funds to create a financial platform based on blockchain that would unite not only green manufacturers, but over time the platform will be able to bring together all the people who share our vision regarding the support of the sustainable development of the planet, the responsible consumption, and respect for the environment.

6.9. MANUFACTURERS

The Greencoin ecosystem will benefit from as many high-quality manufacturers joining the ecosystem as possible. The manufacturers are companies that are dedicated to the business in the creation of green systems and products that will help to solve some of the main problems that human beings face such as energy and food, at the same time being part of a change for the ecologically sustainable development of our planet.

Manufacturer Roles:

- Publish green systems or products
- Deliver products ordered by buyers

6.10. BUYERS

Consumers are individuals or companies that want to buy systems or products with affordable prices. Orders can be placed through the Greencoin website or application for smartphones.

Buyers Roles:

- Search products listed by manufacturers
- Make orders and make a payment
- Participate in feedback requests
- Compensate Manufacturers, installers and customer support team for a good service received

6.11. SUPPORT TEAM

In spite of the extensive amount of videos on information about installations of the Greencoin systems, it will have an expert and professional group in each system to provide support to the clients about doubts or questions about the installations of the green systems. This support can be obtained via email, chat or phone.

Support Team Roles:

- Provide efficient customer support

6.12. LOCAL INSTALLERS

To complete the decentralized CNG ecosystem, buyers will have the option to hire local companies, workshops or individuals to install the green systems, to create an environment of trust these entities have to be certified and join the Greencoin platform, at the same time smart contracts will be used for transactions between sellers, installers and buyers.

Support Team Roles:

- Install green systems to buyers who hire their services
- Provide maintenance services

7. MAKE AN ORDER

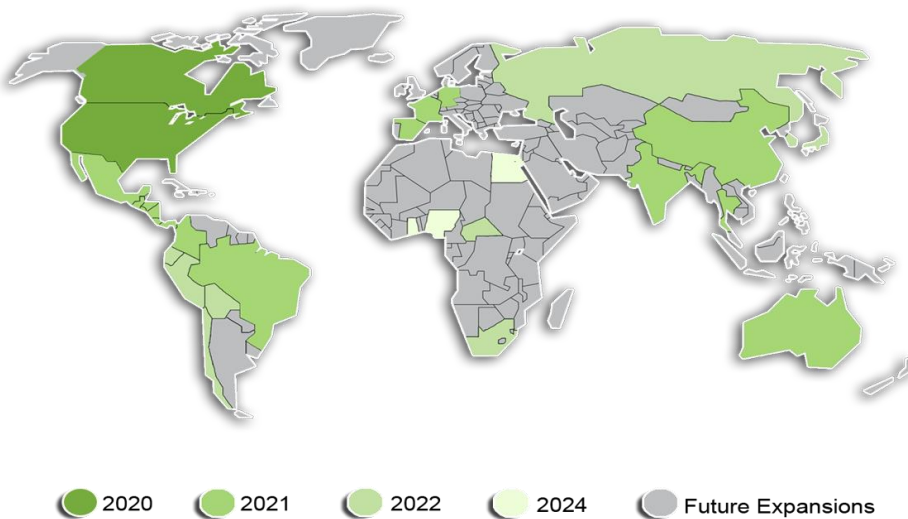
Focusing on e-commerce and online markets, Greencoin platform will integrate the latest blockchain innovations to drive "smart business contracts".

Buyers will choose products or systems to buy, specify delivery details, and pay in (Fiat, BTC, ETH or GNC) currency. Depending on the payment method, consumers will be eligible for different prices and rewards.



The greater the circulation of GNC tokens within the platform, the greater will be the demand for them. Each month, the demand for GNC tokens will grow due to the introduction of new participants in the loyalty platform and the expansion of the buyers database.

8. EXPANSION PLAN



We have concrete plans and teams ready to an expansion. Our plan is to conquer all the promising markets for the use of green systems, with our business strategy and tactics we will create a positive chain network reaction where our partner businesses will get more customers and more orders

9. KEY COMPONENTS AND PROCESSES OF GNC PLATFORM

9.1. REWARDS NETWORK

To promote the Greencoin ecosystem in the market and attract new customers to the platform, in order to place an order for one of the green systems we have planned to provide incentives of GNC tokens.

9.2. PROMOTION

The automated promotion reward mechanism is created to encourage buyers to make a first order. The promotion reward mechanism will be encoded in an smart contract, where the manufacturers establish the rules (expiration date, product list, customer parameters, etc.) and deposit the tokens that can only be used to purchase predefined products during a limited time period.

9.3. RECOMMENDATION

Greencoin will create the reserve fund as part of the token generation event with the main objective of using these tokens as rewards, which is based on existing users of the website that refer new buyer users, and thus popularize the Greencoin ecosystem.

9.4. COMMENTS AND RATINGS

Manufacturers, when attempting to collect comments and ratings directly from the customer about their products, may encourage buyers with GNC tokens to motivate them to participate. The reward mechanism for comments and qualifications allows to establish a specific set of parameters and create a group of buyers from which a manufacturer wishes to obtain comments and ratings.

9.5. REWARDS FOR MANUFACTURERS AND INSTALLERS

The reputation ecosystem is important to establish trust between counterparties. ratings will be deployed for manufacturers and installers parties, Greencoin plans to use GNC tokens to reward manufacturers and installers for each positive review, for those who manage more competitive prices in products and services and those who maintain a good reputation in customer service. Manufacturers or installer who perform exceptionally well will have the option to receive “tips” from their buyers.

9.6. TEACHING AND PROMOTION VIDEOS FOR USERS

These rewards will be designed for users of the Greencoin ecosystem, who create teaching videos such as videos of how to install any of the Greencoin systems, as well as videos of success stories about Greencoin systems.

10. BLOCKCHAIN AND SMART CONTRACTS

Blockchain is a shared database technology whose most popular use has been to support Bitcoin digital currency. It works with linked databases that update digital record books continuously, smart contracts are contracts of immediate applicability in which the terms of the agreement between the buyer and the seller are written directly in lines of code. The code and the agreements contained in it exist in a distributed and decentralized blockchain network, smartt contracts allow transactions and secure agreements to be made between disparate and anonymous parties without the need for a central authority, a legal system or a mechanism of external application supervise them. They allow transactions to be traceable, transparent, and irreversible.

The Greencoin platform is designed as a very high capacity system. The market potential for the Greencoin ecosystem is estimated at thousands of users, The main focus is on performance, which seeks support, predictability, stability and ease of use in relation to smart contracts. We plan to use the most proven and scalable open source technologies and constantly monitor alternative technical implementations.

Blockchain and smart contracts provide the tools and framework to create a new generation of markets where supply and demand can participate in secure commercial transactions, in accordance with various commercial rules and without the need for a central mediator society. Therefore, just as online markets have altered many traditional stores, blockchain and smart contracts will give birth to a new type of peer-to-peer market that will destabilize current ones. Greecoin will in turn provide a series of smart contract templates that will be used to facilitate the systems sales mechanism. Peer structure is the perfect choice for the decentralized nature of the Greecoin ecosystem and has the advantage of returning power to people who participate in the ecosystem.

The process of payment in electronic commerce currently involves more than 10 steps to settle a transaction, and pay up to 15 different commissions of payment gateways. So the transaction fees are between 2% and 6%, a long path that could be shortened with the use of the blockchain. Blockchain is the perfect tool for electronic commerce to be more efficient and reliable.

The processing of payments through blockchain has a significantly greater potential for high speed transactions and low prices, without forgetting all the possible ways in which smart contracts could improve both electronic commerce and payments.

Distributed nature of blockchain makes the platform less vulnerable to attacks and attempts to compromise the system. Users assets in tokens are stored on their wallets and all transactions are stored in blockchain to prevent fraud and unauthorized proceedings.

11. WHY ICO? (initial coin offering)

There are many arguments why we have chosen to make an initial coin offer instead of other alternatives to raise money, First, to bring the project to reality and expand it in a shorter time, and an initial offer of currencies not only allows us to include participants from different regions, but also encourages them to promote the systems and products of the Greecoin platform through affiliate commissions. Second, the tokens provide liquidity since they can be traded in several exchanges after the ICO. Finally, the smart contract of the tokens allows an easy distribution of the affiliation commission, which would be difficult to process without the use of blockchain technology.

12. GENERAL INFORMATION

12.1. SOLAR ENERGY SYSTEM

12.1.1. PROBLEM

Our planet is our legacy, and there is only one. The extensive use of fossil fuel energies has caused irreversible damage. The longer we wait, the worse it will be. Solar energy is what reaches the Earth in the form of electromagnetic radiation (light, heat and ultraviolet rays mainly) from the Sun, where it has been generated by a nuclear fusion process and we need to take advantage of it to feed our homes, buildings, etc. and do our part to protect the environment. Together, we are going to choose a more responsible way to feed our lives.

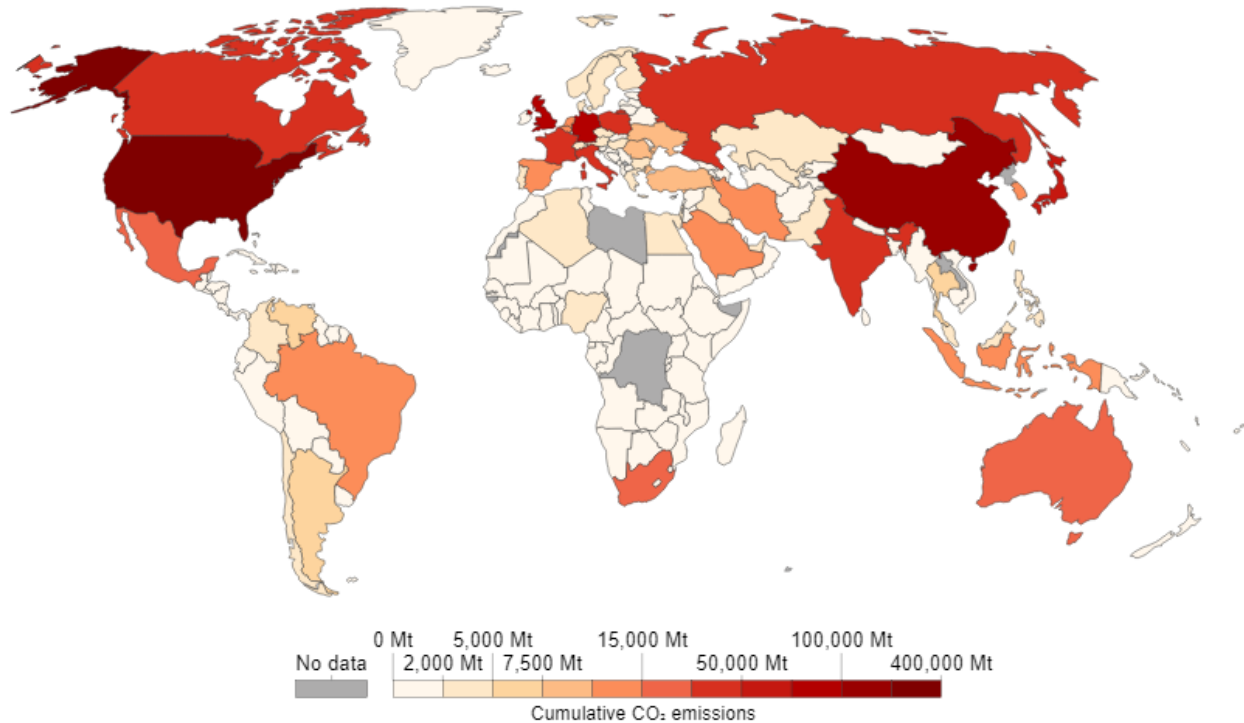
Carbon dioxide (CO₂) is an essential gas for life: animals exhale it, plants sequester it. It exists in the Earth's atmosphere in comparatively small concentrations, but it is vital to sustain life. CO₂ is also known as a greenhouse gas (GHG), a gas that absorbs and emits thermal radiation, creating the "greenhouse effect".

Along with other greenhouse gases, such as nitrous oxide and methane, CO₂ is important to maintain a habitable temperature for the planet: if there were absolutely no GHG, our planet would simply be too cold. It has been estimated that without these gases, the average surface temperature of the Earth would be about (-18) degrees Celsius.

However, since the Industrial Revolution, the consumption of fossil fuels driven by energy has led to a rapid increase in CO₂ emissions, which has disrupted the global carbon cycle and caused a global warming impact. Global warming and a changing climate have a range of potential ecological, physical, and health impacts; including extreme weather events (such as floods, droughts, storms, and heat waves), Rising sea levels, altered growth of the crop, and interrupted water systems.

CUMULATIVE CO2 EMISSIONS 2016

Cumulative carbon dioxide (CO₂) emissions represent the total sum of CO₂ emissions since 1751, and is measured in millions tonnes.



Unlike the energy generated by fossil fuels, solar energy does not release dangerous emissions of carbon dioxide (CO₂). Having sustainable energy solutions without carbon is essential to slow down climate change and prevent further damage to the environment.

The global demand for energy is growing at an alarming rate. The "World Technology of Energy and Climate predicts an average growth rate of 1.8% per year for the period 2000-2030 for energy worldwide. The increase in demand for these fossil fuel reserves that emit Greenhouse gas and other pollutants, these reserves are decreasing and becoming more expensive. Currently, the level of CO₂ per capita emissions from developing countries is 20% the main industrialized countries.

As developing nations industrialize, this will increase substantially. By 2030, CO₂ emissions from developing countries could account for more than half of the world's CO₂ emissions. The industrialized countries should lead the development of new energy systems to compensate for this.

12.1.2. SOLUTION

Greencoin focuses on providing cost-effective energy-saving solutions and renewable energy systems for industrial, commercial, and residential applications.

We make it possible for individuals and organizations to be part of the creation of a sustainable world. Our products and services help conserve energy, use energy efficiently, and generate clean renewable energy. We seek to inspire, educate, and assist our clients in achieving their goals of cost stability, energy independence, and environmental stewardship.

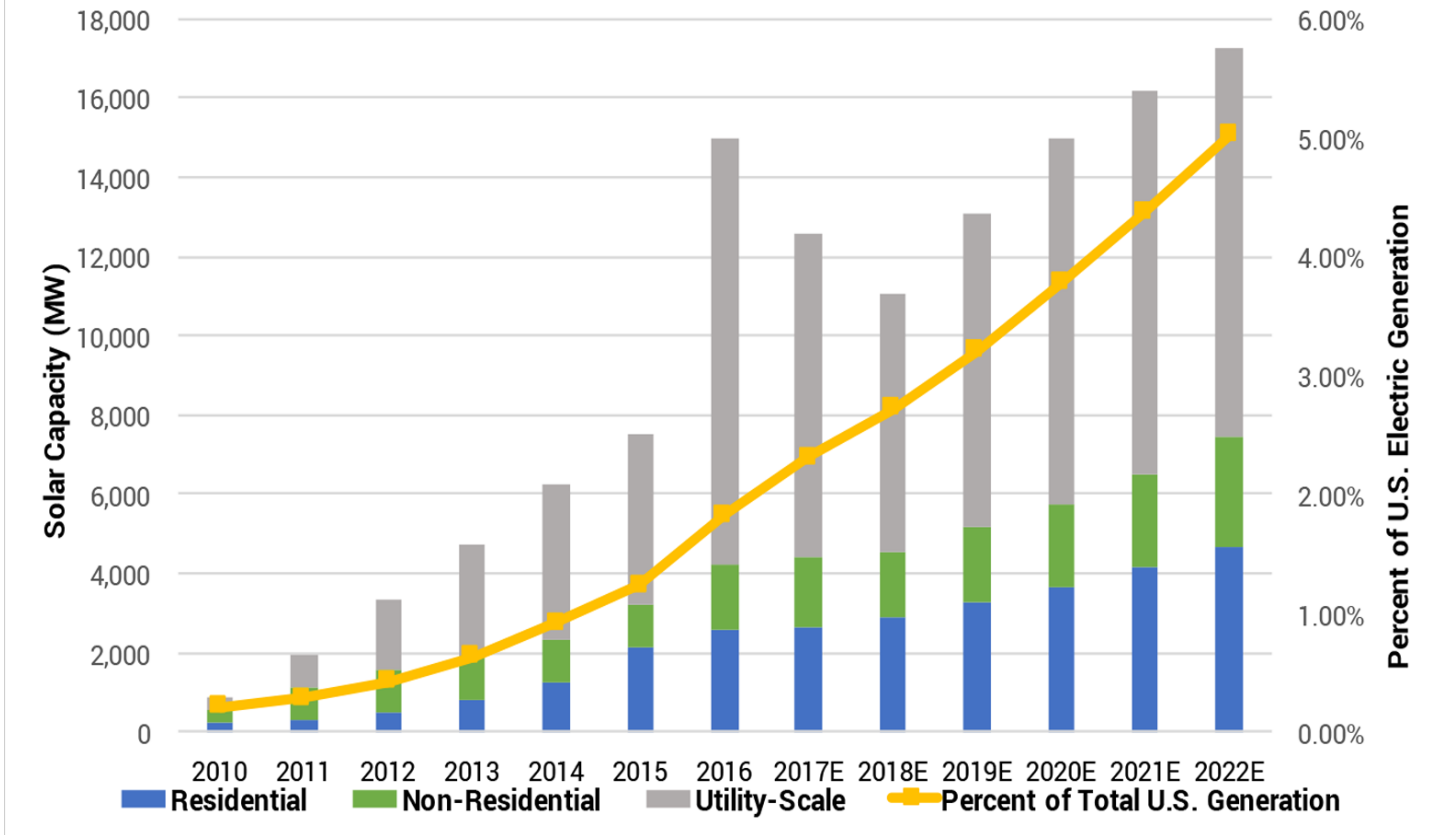
Solar technology has proven not only to be the most efficient alternative to fossil fuel energies, but it is also an extremely profitable and reliable investment.

Building owners will not only consume clean energy, they will also make thousands of dollars in savings over the life of the solar panel system, every month, homeowners and commercial buildings are losing money by paying their electricity bills. By investing now, they could control their energy costs.

With the installation of solar panels, it not only significantly reduces the monthly electricity bill, but it also frees itself from dependence on the public network. This energy independence protects against the increase in the cost of electricity and against volatility in the price of fuel. Analysts expect a continued increase in electricity prices, so solar energy remains a cost-effective solution and a long-term investment in the future.

Solar's participation in new capacity has grown rapidly. In 2016, 39% of the entire new generation capacity was for the solar industry, surpassing all other technologies for the first time. Solar's growing competitiveness in comparison with other technologies has allowed it to rapidly increase its share of total US electricity generation, from only 0.1% in 2010 to 1.4% at present. By 2020, solar energy should exceed 3% of total generation and is expected to reach 5% by 2022.

U.S Solar Market Forecast 2017

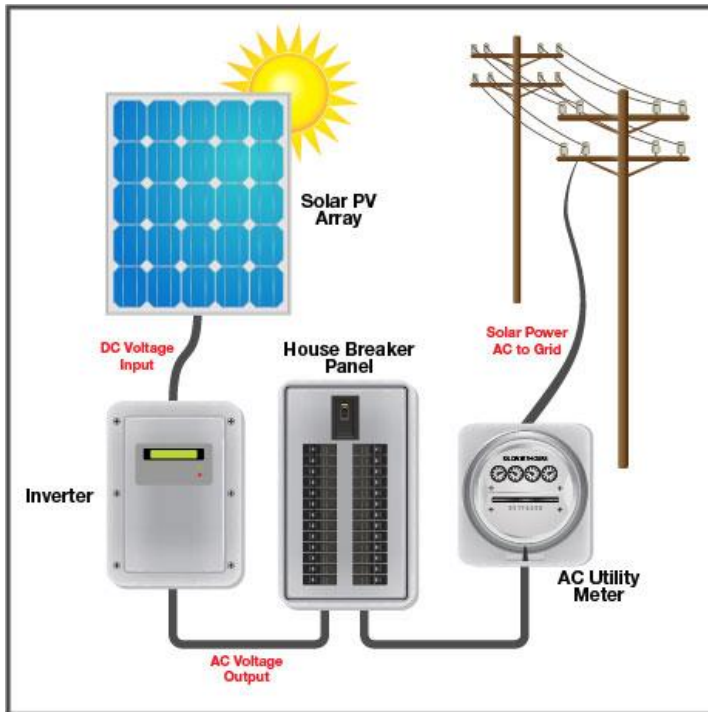


12.1.3. SOLAR PANELS

A solar panel or solar module is a device that captures the energy of solar radiation for its use. The term includes solar collectors, usually used to produce domestic hot water by solar thermal energy, and photovoltaic panels, used to generate electricity using photovoltaic solar energy.

12.1.4. GRID-TIE SOLAR SYSTEM

A "Grid-tie" solar system is the most common method of installing a residential solar power system. Grid-tie systems are connected to the main power grid and are designed to sell power back to the utility company.

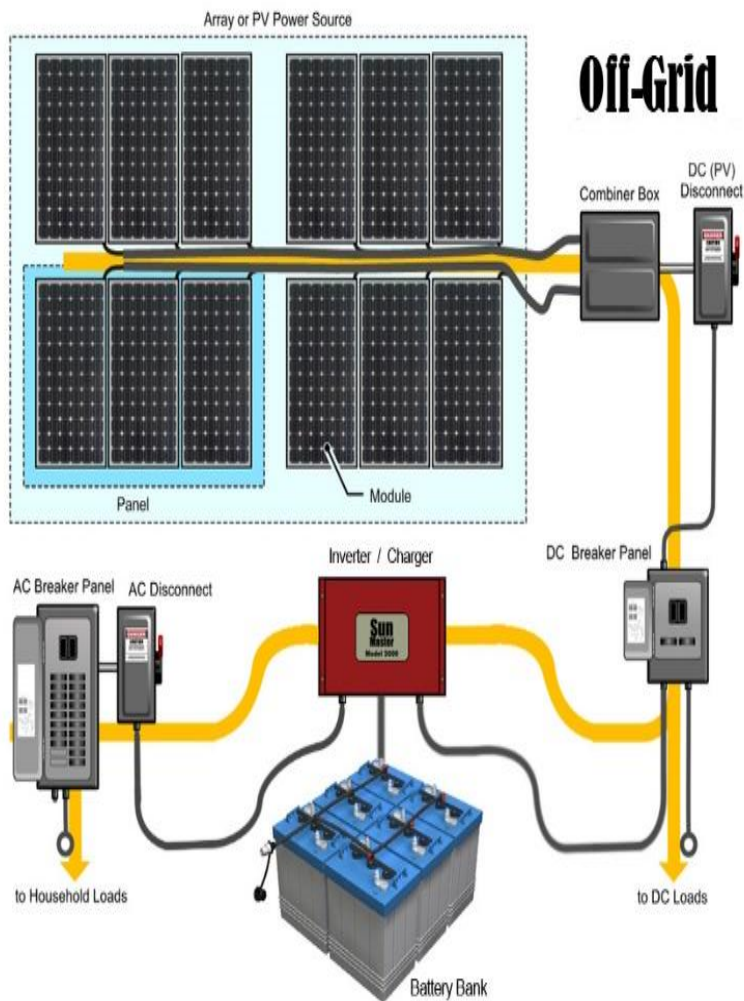


The feedback is done through a meter to monitor power transferred. Photovoltaic wattage may be less than average consumption, in which case the consumer will continue to purchase grid energy, but a lesser amount than previously. If photovoltaic wattage substantially exceeds average consumption, the energy produced by the panels will be much in excess of the demand. In this case, the excess power can yield revenue by selling it to the grid. Depending on their agreement with their local grid energy company, the consumer only needs to pay the cost of electricity consumed less the

value of electricity generated. This will be a negative number if more electricity is generated than consumed. Additionally, in some cases, cash incentives are paid from the grid operator to the consumer.

12.1.5. OFF-GRID SOLAR SYSTEM

A "off-grid" solar system is the most common method to power cabin, caravan, RV, Boat and watering system and other off-grid applications.



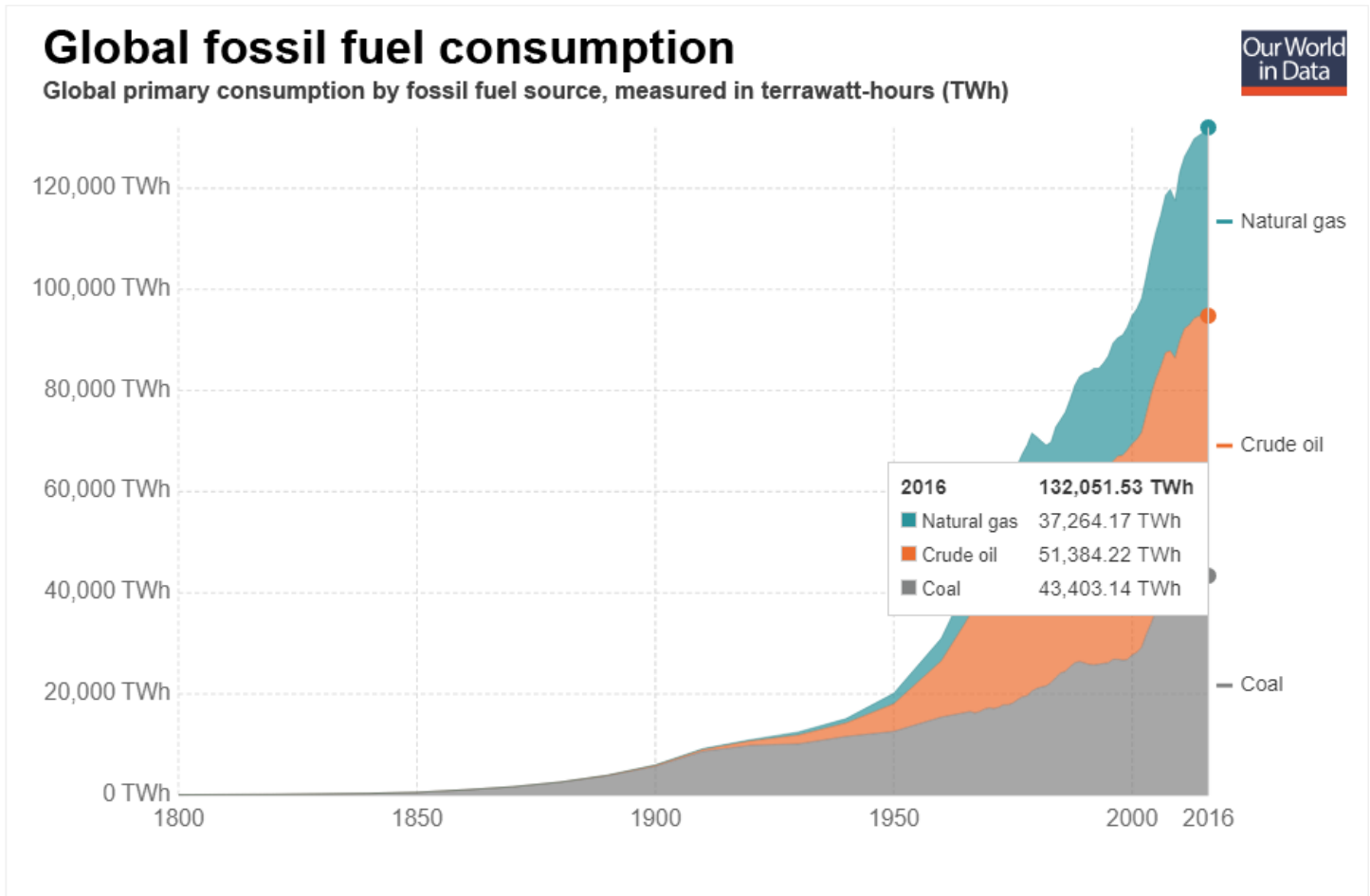
Off-the-grid is a system and lifestyle designed to help people function without the support of remote infrastructure, such as an electrical grid. In electricity, off-grid can be stand-alone power system or mini-grids typically to provide a smaller community with electricity.

Off-grid electrification is an approach to access electricity used in countries and areas with little access to electricity, due to scattered or distant population. The term off-the-grid (OTG) can refer to living in a self-sufficient manner without reliance on one or more public utilities. People who adopt this lifestyle are called off-gridders

12.2. HYDROGEN FUEL INJECTION SYSTEM

12.2.1. PROBLEM

The world energy demand, estimated at around 10,000 million tons equivalent of oil (BP, 2004), is covered in more than 87% by fossil fuels such as coal, oil and natural gas. This dependence has important economic and environmental repercussions.



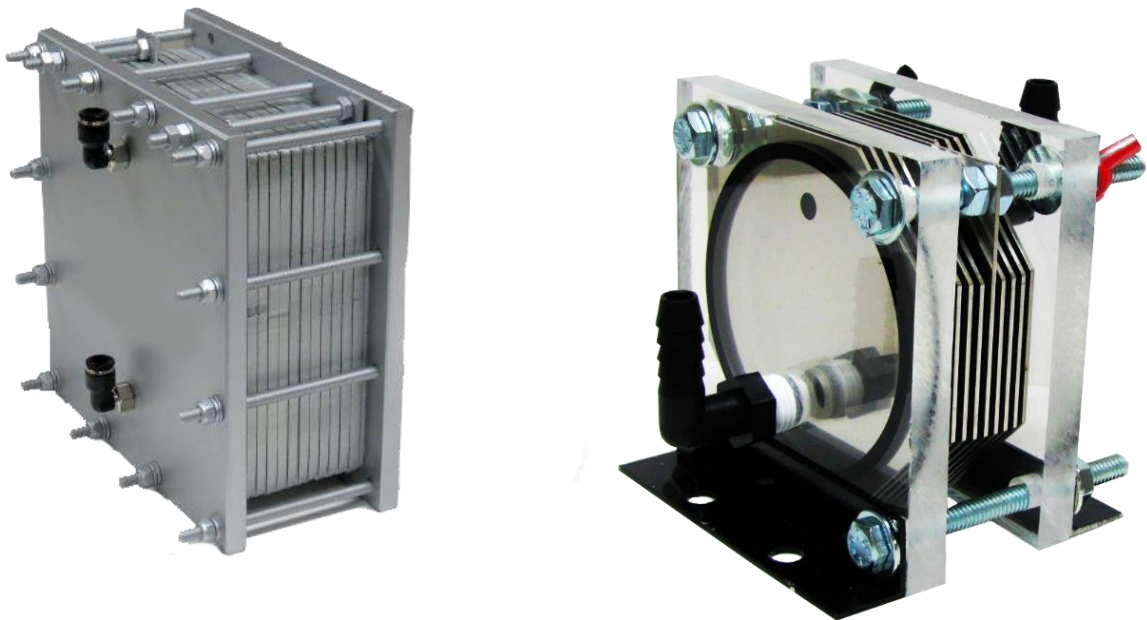
On the economic side, it should be noted that its centralized production in certain areas of the world is governed by essentially political factors resulting in volatile and high prices. Likewise, in the absence of viable alternatives, the depletion of oil reserves, estimated at no more than 40 years (BP, 2004), will result in a progressive increase to such levels that affect global economic development.

12.2.2. SOLUTION

In the future, cars could run on eco-friendly hydrogen fuel, but today's technology for cars is far from realizing that dream. However, the development of a hydrogen fuel cell that can produce hydrogen gas to power a car with a conventional engine has been discovered.

This is a hydrogen generation system that injects a motor with a continuous flow of HYDROGEN gas (HHO) converting any motor in a system between 70-95% less polluting and energetically more efficient in a short time. Depending on the application and the conditioning factors, you can save up to 50% of fuel consumption.

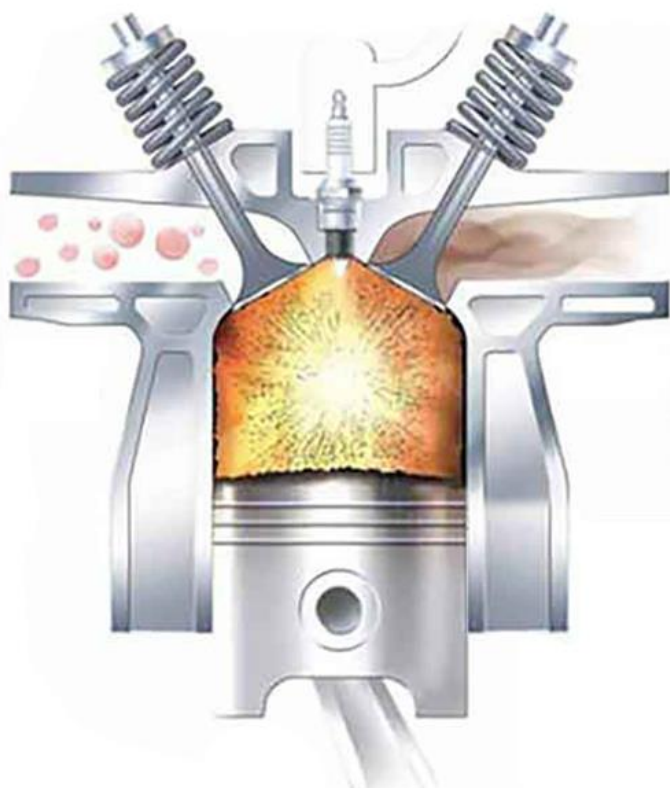
The hydrogen generator system uses water as a source of fuel, since nanogas is produced on demand by electrolysis from water, you only have to recharge electrolyzed water every so often. The system always stops its operation automatically when the engine is stopped.



Faced with the increasing cost of gasoline, automakers around the world are working overtime to cost-effectively improve the fuel economy of vehicles while meeting the strict current emission requirements. One promising way to increase fuel economy is to add hydrogen to the fuel / air mixture in a conventional gasoline engine. It is called gas engine boosted by hydrogen.

Hydrogen fuel boosting is the process of using a mixture of hydrogen and conventional hydrocarbon fuel in an internal combustion engine, typically in a car or truck, in an attempt to improve fuel economy, power, emissions or a combination of them. The methods include hydrogen produced through electrolysis, storing hydrogen in the vehicle as a second fuel.

ENGINE WITH GAS ONLY



ENGINE WITH GAS AND HYDROGEN

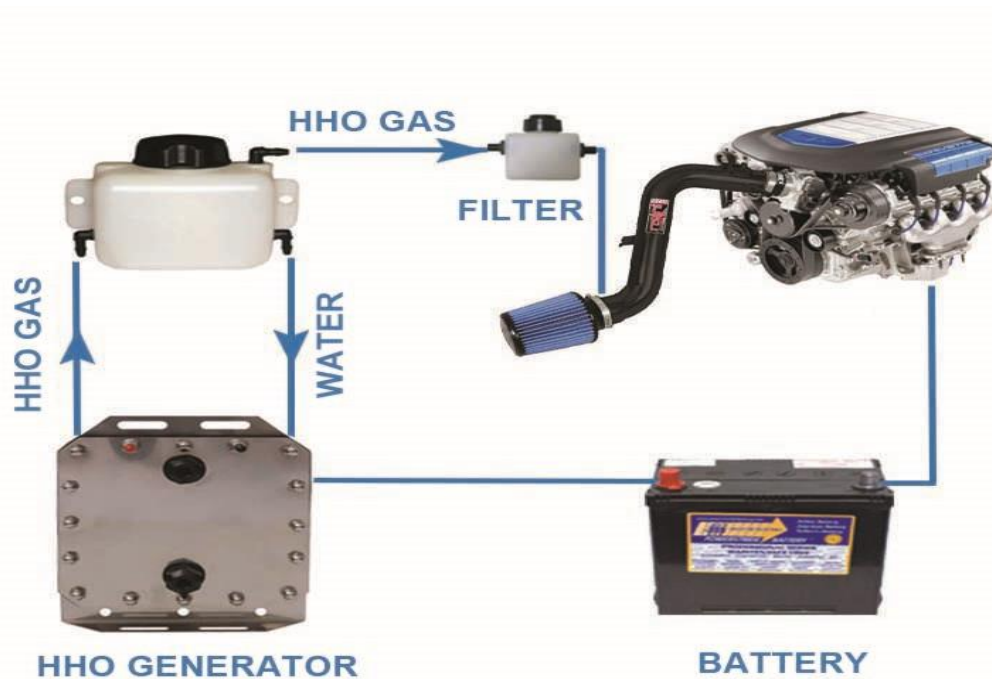


While fuel cells are presented as the future of a sustainable and clean energy source for the transport sector, advances on hydrogen internal combustion engines and engines based on hydrogen / hydrocarbon mixtures are also undergoing important advances.

Hydrogen can potentially contribute to reducing emissions from internal combustion engines, while displacing a fraction of fossil fuel.

The objective of this technology is to improve combustion in conventional engines, both diesel and gasoline, by adding hydrogen generated by the engine itself.

In the early 1970s NASA's Jet Propulsion Laboratory published research on the improvements produced by hydrogen in the combustion of conventional thermal engines. The HFI is a system that generates hydrogen on the fly and adds it to the engine. This achieves better combustion; as a consequence, the power is increased, the consumption is reduced and less is contaminated. It also improves engine performance by reducing carbon deposits, which are produced by incomplete combustion of fuels.



The goal of Greencoin and the expert team in the field of systems of injection of hydrogen to conventional engines is to promote the development of hydrogen technologies as an energy vector and promote their use in conventional automobile engines to reduce emissions and reduce up to 50 % in fuel consumption derived from oil, such as gasoline and diesel which have caused great damage to our planet.

12.2.3. HYDROGEN

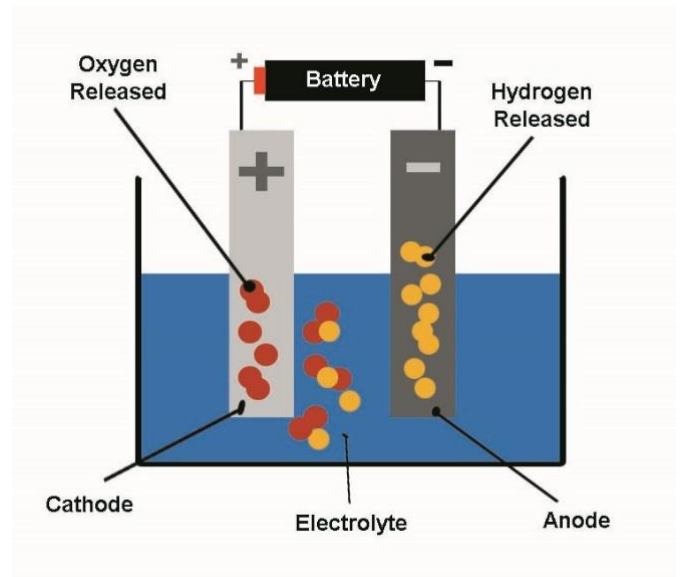
Hydrogen, unlike today's hydrocarbons condemned to be finished, hydrogen is combined with other elements from all over the planet, thus being the most basic and easiest element to find in the universe. It is a gas made up of molecules with two hydrogen atoms. It was discovered by Cavendish in 1766, later in 1781 discovered that it was a combustible gas that burned as water. This discovery induced him to baptize it with the name of hydrogen, which means "generator of water". In short, this gas is the essential component of the Sun and the stars. Although it is necessary to observe that even when dealing with the most abundant element of nature, it is rarely found in a free way due to its facility to combine. Thus, hydrogen should be considered as an energy vector since it can not be exploited directly as oil or coal, but must be generated by other chemical components, becoming a carrier of secondary energy.

Some see hydrogen gas as the clean future fuel, generated from water and returned to water when it is oxidized. Fuel cells powered by hydrogen are increasingly considered as "pollution-free" energy sources and are now used in some buses and cars.

12.2.4. HOW DOES IT WORK?

Let's start from the beginning, HHO is the abbreviation for hydrogen and oxygen gas. A hydrogen fuel cell (also known as a dry cell generator or electrolyzer) works by dividing water into individual atoms of oxygen and hydrogen.

Two atoms of hydrogen and one atom of oxygen are produced from each molecule of water by the process known as electrolysis. This process begins once an electric current is applied to the cell, which is filled with a mixture of drinking water and electrolyte (potassium hydroxide, also called KOH).



This fuel gas is introduced into the engine through the vehicle's entrance. The HHO is combined with the fuel that is used to power the vehicle (gasoline) to allow a hotter, more complete combustion of the fuel in the cylinders. An additional amount of gasoline or fuel can be burned due to the presence of HHO in combustion. Because more fuel will be burned, the engine may use a little less fuel than without the HHO. This process results in cleaner emissions and less unburned fuel.

All that is required after the system is in place is to monitor the water level in the tank and periodically refill it with water and electrolyte, you adjust the output yourself. Larger engines require more hydrogen to make a profit, while smaller engines require less. More electrolyte content in the cell consumes more current, which is equivalent to more hydrogen production. If you need more HHO, just add more electrolyte. That easy!

12.2.5. Can hydrogen be the combustible of the future?

Hydrogen is an energy carrier that can transform our fossil fuel-dependent economy into a hydrogen economy, which can provide an emission-free transport fuel. Literature reviews and independent research were the main research methods. The storage and transport of hydrogen are subjects of intense research due to the low density characteristic of hydrogen.

In the future, hydrogen will link electricity as an important energy carrier, since it can be manufactured safely from renewable energy sources and is virtually non-polluting.

That will be used as fuel for zero-emission vehicles, to heat homes and offices, to produce electricity and to power aircraft.

Hydrogen has great potential as a way to reduce dependence on imported energy sources, such as oil. Before hydrogen can play a more important energy role and become a widely used alternative to gasoline, many new facilities and systems must be built which could take a long time to achieve such constructions and facilities, but nowadays with Hydrogen injection systems to conventional engines can start making the change visualizing a better future.

Hydrogen is not currently the only alternative to operate a car, there are more than a dozen alternative fuels currently in development or in production to power the vehicles of the future, and some are currently available. As oil is a fossil fuel, sooner or later it will end and the damage that many times will be caused by drilling for the extraction of the resource, as well as the contamination that occurs in its use, will also end.

For this reason, the automotive industry in recent years has become aware of the damage that has an impact on the environment and has been creating alternatives. An example of this are lithium batteries that are widely used among the most representative electric car manufacturers in the market such as Tesla, BMW, and General Motors.

The future of electric vehicles has led several investors to see lithium as the new commodity.

Both governments and automakers have taken steps to electrify the fleets and further eliminate the combustion engine. In turn, several traders now believe that lithium is a high-yield investment as demand increases.

This is not surprise; Lithium is a vital component of lithium-ion batteries. These rechargeable batteries are used in such common devices as smartphones and laptops. They have become increasingly popular among electric car manufacturers because they can produce more electricity per unit than conventional batteries.

12.3. AQUAPONICS SYSTEM

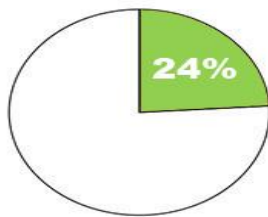
12.3.1. PROBLEM

World food production is struggling to keep up with demand and trends suggest that it will only be more difficult.

- Global food demand is growing as human populations and grazing animal populations increase, as more people change their diets to include more meat, and as more crops are used for biofuel production. On the other hand, it is increasingly difficult to continuously increase agricultural yields as the downward pressure of soil erosion / degradation, the depletion of aquifers and the complications of irrigation water supply due to the melting of glaciers begin to overcome technological advances in agricultural production.
- Many new problems have arisen as producers try to cope with these challenging trends by squeezing more and more production from the remaining agricultural land.

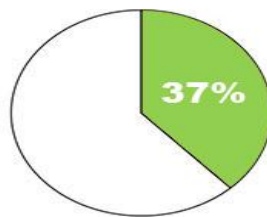
AGRICULTURE SHARE OF GLOBAL ENVIRONMENTAL IMPACT

EMISSIONS OF GREENHOUSE GASES



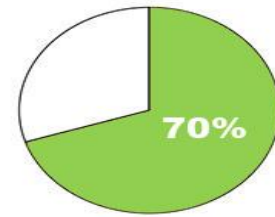
100% = 49 Gt CO₂e

EARTH'S LANDMASS (EX- ANTARCTICA)



100% = 13.3 bn ha

WATER WITHDRAWAL



100% = 3862 km³ H₂O

Most of our food and animal feed now comes from large-scale industrial crop production using a monoculture approach. This involves growing a single crop on a large area of land. This method was generalized in most industrialized countries in the 1940s and 1950s, at the expense of the small family farm, as agriculture became more commodity-based and less subsistence-based.

This approach increases mechanization and requires the use of fossil fuels, fertilizers, pesticides, herbicides, irrigation water, and genetic engineering. All these factors reduce the need for human labor and ultimately, reduce the prices of crops. While the defenders of industrial agriculture claim to have modernized and rationalized food production in the United States, such evolution has been at the expense of environmental, human, and community health.

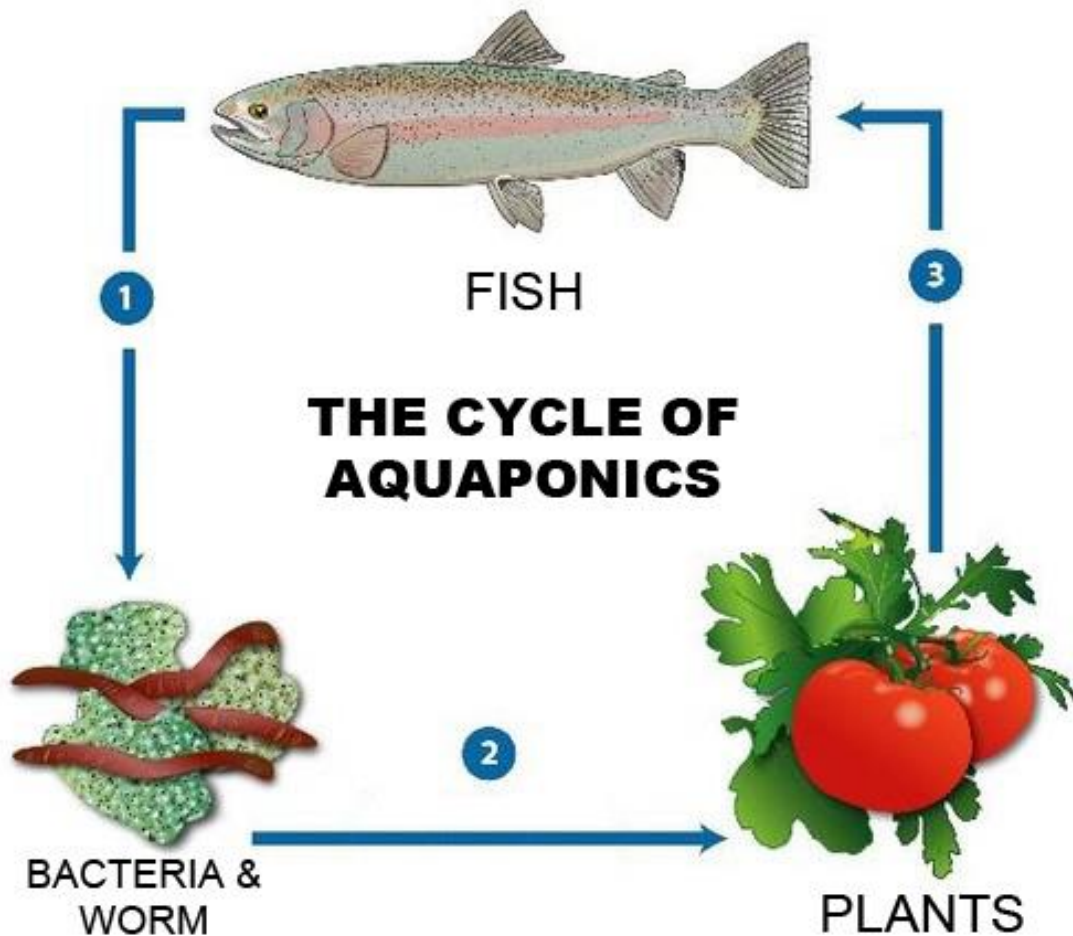
Industrial agricultural practices have generated numerous environmental impacts, including soil erosion and degradation, water pollution, air pollution, and loss of biodiversity.

These environmental impacts have caused numerous human health problems, including the ingestion of pesticides, herbicides and hormones, increase of allergens and bacteria resistant to antibiotics, incubation and dispersion of infectious diseases and a wide range of respiratory problems due to exposure to air pollutants (including particles, hydrogen sulfide and ammonia). Finally, industrial farms generally import most of the necessary inputs and export products, leading to local economic stagnation. The values of the surrounding properties also decrease significantly as a result of odor, pollution and their associated human health problems. When these local economies degrade, their community infrastructure (schools, parks, etc.) also deteriorates soon. In this vicious circle, environmental and human health problems work together to degrade the communities surrounding these large-scale agricultural operations.

12.3.2. SOLUTION

This is where the aquaponic solution enters the equation. Aquaponic offers the possibility of generating large quantities and varieties of food in very small urban spaces, at any time of the year. Aquaponics refers to the combined production of fish and plants in what is known as recirculation of aquaculture.

The nutrient-rich wastewater of the fish favors the growth of the plants, while the plants clean the water so that it can be returned safely to the fish. The concept has become increasingly popular in recent decades, and aquaponics is considered by many to be the future of food production. It holds the promise of becoming an economically viable way to consistently grow sustainable, local, and organic foods.



- The fish are fed and produce waste rich in ammonia.
- The bacteria, which are grown in the culture beds and in the fish tank, decompose this ammonia into nitrites and then into nitrates.
- Plants take converted Nitrates as nutrients. The nutrients are a fertilizer, they feed the plants, also the roots of the plants help to filter the water to the fish.

Aquaponics uses only a fraction of the water used in conventional agriculture and can use even less if it collects rainwater to add to your system. Aquaponics farmers do not depend on large amounts of water as conventional farmers on land do and do not have the same environmental impact of the tremendous consumption of water and waste. The minimum use of water means that Aquaponics is the answer for the environments affected by the drought. It's like the oasis in the desert.

Aquaponics can also produce more products compared to products conventionally grown in the soil. Vegetables generally grow significantly faster and with a density of three to four times, without ever depleting nutrients. Its soil counterparts deplete nutrients with each plantation and farmers struggle to replace them with synthetic fertilizers. This way of growing food means that the aquaponic farm does not require farmland with fertile land.



Another great benefit of aquaponic farming is that it grows 100% free of chemicals, all natural products. If pesticides, herbicides or chemical or synthetic fertilizers are used, the fish could die, effectively killing your system generator! There is no doubt that foods grown aquaponically do not contain chemical compounds, since they can not be deceived. Even most approved organic pesticides could kill fish.

The use of Aquaponics energy is 70% to 92% less than a conventional or organic farm that uses fuel-intensive fertilizers and / or petrochemicals. All the energy used is electric, so alternative energy systems such as solar, wind, and hydroelectric power can be used to power a 100% aquaponics farm.



This alternative energy can be produced locally instead of being shipped from countries that refine oil, which can be long distances from the end user (this shipment over long distances requires even more petrochemical energy). This technology does not even need oil.

Aquaponics even has benefits for both aquaculture and hydroponic operations. The integration of the two, in effect aquaponics, eliminates costly practices in any of them.

One of the biggest costs in an aquaculture operation is to filter the water without accumulations of ammonia, nitrite, and nitrate. However, when combined with hydroponics, plants are the only source of filtration and a great source of income. When compared to hydroponics, aquaponics does not require purges or system dumps or expensive chemicals that must be constantly replaced to grow food.

The benefits go on and on. For some reason, aquaponically grown foods taste better than conventional or hydroponic foods. Maybe it's the simplicity and the natural way it works, without chemicals to alter or mask the true flavor of the vegetable, it just tastes better. It also lasts longer! And we have not even touched on the fact that aquaponics not only grows vegetables and fruits, there are also great tasting fish!



And you can consume and sell your fish with the knowledge of the conditions in which they were raised and without hormones or antibiotics.

Aquaponics is absolutely the answer of how we are going to grow and obtain our food for the future. This will be the biggest change in agriculture since the industrial revolution. It is time for another revolution and you can be part of it.

12.3.3. AQUAPONICS MODEL OF A FOOD SAFETY PROGRAM

Food availability: being a joint system of fish and vegetable production allows the production of both to be constant. It allows the constant supply of the planted and harvested resources that produce it, being in this case a model crop for people of scarce resources.

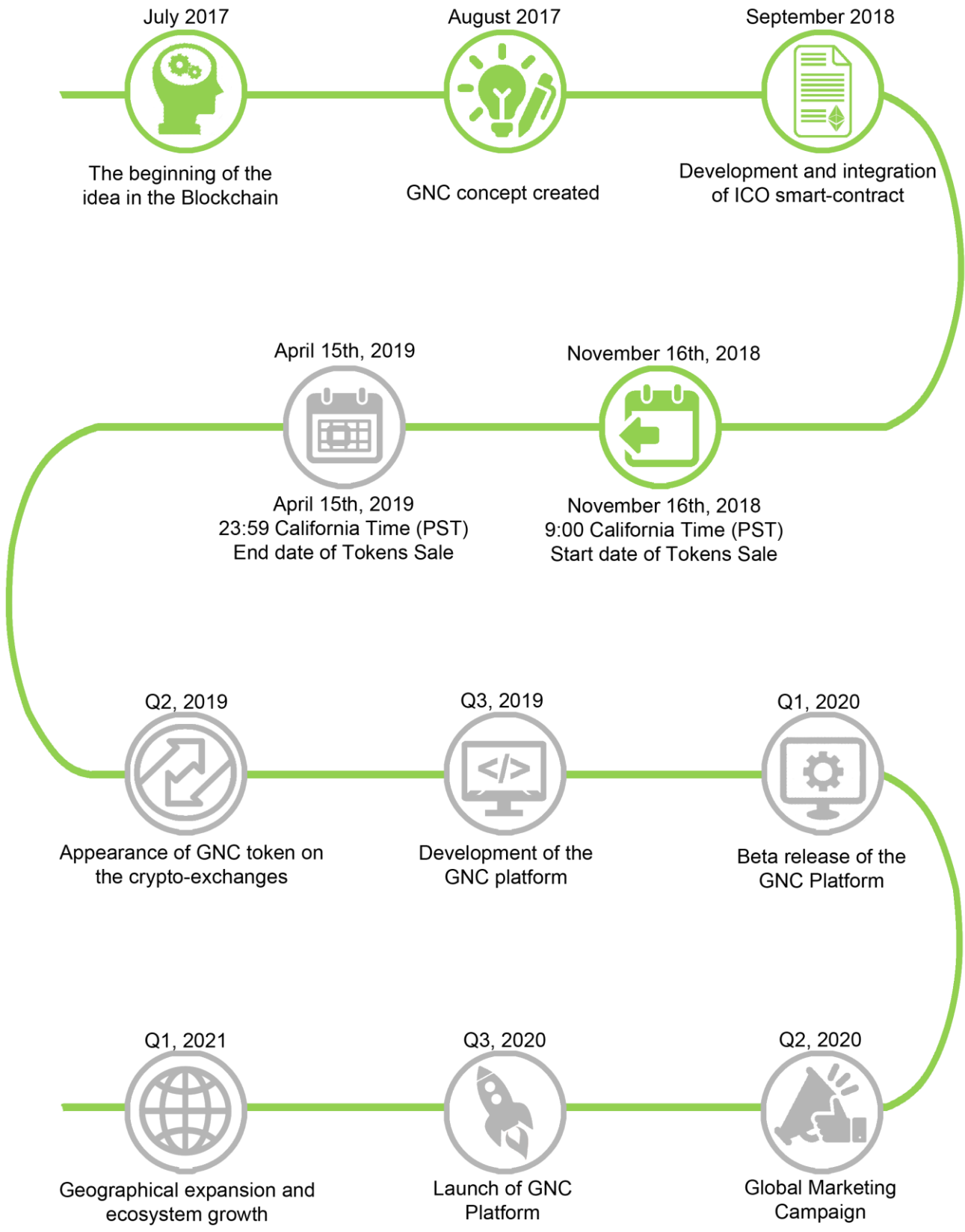
Access to food: the self-supply of the system allows the accessibility of food allowing a balanced diet of the same with rich proteins such as fish.

Utilization: the biological use of food through a balanced adequate diet being the final products of the aquaponics crop, the resources necessary for the nutritional balance of those who need it most.

Stability: the reuse of water and the constant availability of nutrients from the culture pond produced by the fish waste allow to maintain the constant stability of production of the food that is grown in the modules of Aquaponics.

13. ROADMAP

Our roadmap involves many different aspects, such as technology development, launches, expansion, and growth as well as launching marketing initiatives. The preliminary roadmap is presented below. Dates and activities may be subject to change.



14. GNC TOKEN

The Ethereum blockchain is currently the industry standard for the issuance of digital assets and smart contracts. The ERC20 token interface allows you to implement a standard token that is compatible with the existing infrastructure of the Ethereum ecosystem. Includes development tools, wallets, exchanges, and exchange offices. Ethereum's ability to implement full smart contracts without an intermediary endorsement supports the complex issuance of cryptocurrencies, digital financial contracts, and automated incentive structure. Ethereum with its advanced capabilities and an active ecosystem is ideal for GNC.

For the initial coin offering a currency called GREENCOIN (GNC) Token has been created, this currency will be used to obtain the necessary financing to develop the project.

The GNC token is an essential component of the ecosystem and is designed to facilitate all types of operations that make the token an integral part of the ecosystem and the key factor of its economy. The GNC token is divisible into fractions, transferable, and fungible. GNC is a cryptocurrency underlying the Greencoin ecosystem as the payment instrument within its blockchain.

The GNC token is intended to be the only means of change for the management of all types of rewards and one of the means of payment within the Greencoin ecosystem at a discounted price.

After the ICO period, all contributors will receive ERC20 exchangeable GNC tokens on the Ethereum network. When the Greencoin blockchain is launched with its own Cryptocurrency mechanism, the ERC20 token will be always accepted for exchange to a new Greencoin 1-to-1.

15. GNC TOKEN USAGE

The GNC token is planned to be the only means of exchange for handling all types of rewards and one of the means of payment within the GNC ecosystem.

- **Making purchases using GNC tokens**

Purchasing green systems or products through the platform with tokens, It's important to mention that all the transactions in cryptocurrency will be seen in the blockchain.

By paying for an item using the platform, the buyer gets an additional protection of the transaction because of the smart-contracts and the Greencoin warranty. Using GNC token as a method of payment within the platform tackles the issues of cross-border payments.

- **Use GNC to hire local installers**

Buyers of ecological systems can choose to hire local installers using GNC tokens as a form of payment.

- **Rewards:**

Manufacturer and Installers use GNC to reward users for positive reviews and carry out promotions to attract more customers.

- **Promotions services**

Promotion mechanism will be used by manufacturers to promote products to new audiences allowing to attract more buyers and generate more sales. All these services can be paid for with GNC tokens.

- **Referral programs:**

The platform members will be able to additionally earn GNC tokens by taking part in referral programs, as well rewards to Greencoin member, who create teaching videos about how to install any of the Greencoin systems as well success stories about Greencoin systems.

- **Transaction Fee:**

A transaction fee will be added to the final purchase orders amount transacted within the ecosystem. The transaction fee is paid for by the Manufacturers and installers, Said value is to be determined during development. The fee will be distributed between Greencoin and referral system pool.

16. TOKENS SALE

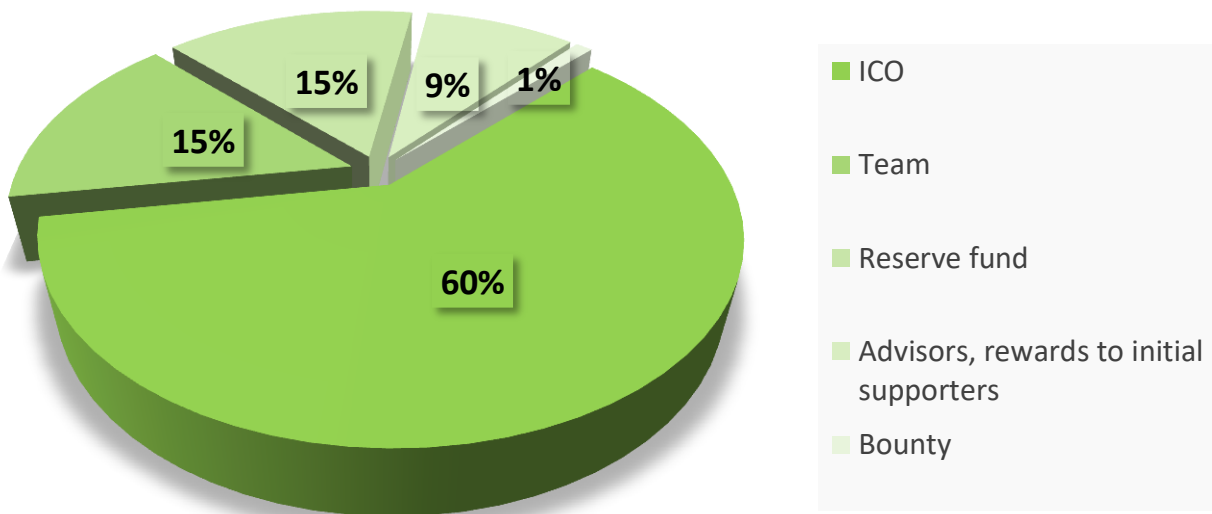
16.1. SUMMARY

Project Description:	The first decentralized platform based on sustainable green systems to solve real problems in the world, connecting green systems manufacturers and local Installation companies or certified individuals directly with buyers
GREENCOIN:	The GREENCOIN (GNC) token is an essential component of the Greencoin ecosystem and is designed to facilitate all types of operations that make the token an integral part of the ecosystem and the key factor of its economy.
Token symbol:	(GNC)
Token Type:	ERC20 Ethereum Blockchain
Start date of Pre-ICO:	November 16th, 2018 9:00 CALIFORNIA TIME (PST)
End date of Pre-ICO:	December 15th, 2018 23:59 CALIFORNIA TIME (PST)
Start date of ICO:	January 15th, 2019 9:00 CALIFORNIA TIME (PST)
End date of ICO:	April 15th, 2019 23:59 CALIFORNIA TIME (PST)
Token exchange rate:	1 ETH = 500 Tokens GNC

Payment methods:	ETH, BTC
Soft Cap:	10,000 ETH
Hard Cap:	60,000 ETH
Total GNC tokens generated	50,000,000
Minimum purchase:	0.1 ETH = 50 GNC
Target number of tokens sold during Pre-ICO and ICO:	30,000,000 GNC Tokens
Amount of tokens available during the PRE-ICO sale:	6,000,000 GNC tokens
Number of tokens available during Principal ICO sale:	24,000,000 GNC tokens
Contract address:	0xf612773e8e1daf16c65c5ab5e1268ae0ceca0c0e

16.2. TOKENS SALE STRUCTURE

A total of 50,000,000 GNC tokens will be created of which 60% of the tokens will be offered during the sale period of the ICO which will be divided into 2 stages, PRE-ICO and ICO. In which 20% of tokens destined for sale will be offered in the PRE-ICO and the remaining 80% will be offered in the period of the ICO, 15% of the tokens will be allocated to the Founders and the members of the Core Team, 9% will be for advisors and rewards to initial supporters. 1% will be to carry out the bounty campaign during the tokens sale . And the remaining 15% will be held in reserve for facilitation of transactions within the Rewards Network and for incentives.



- The GNC tokens of the Greencoin team will be blocked for 2 years with four award periods of 6 months.
- The tokens of advisors and initial supporters will be blocked for 6 months
- The distribution of reserve fund tokens will begin in 2020 and will last up to 3 years, with the main objective of encouraging new clients to join and accelerate the adoption of the Greencoin ecosystem by a broad public.
- All unsold tokens in the Pre-ICO will be transferred into the main ICO
- All unsold tokens will be airdropped to the contributors after the ICO stages. The airdrop will be calculated according to the number of tokens bought during the ICO stages.

16.3. TOKENS SALE BONUS CALENDAR

One (1) ETH will give you 500 GNC tokens. As an early bonus, additional tokens will be offered as a bonus for users who commit before. See the time table below for the exact bonus calendar.

Time period	Bonus Tokens
Pre-ICO November-16-2018 / December-15-2018	+15% / Whitelisted +5%
ICO Stage 1 (15 Days) - January-15-2019 / January-29-2019	+10%
ICO Stage 2 (15 Days) - January-30-2019 / February-13-2019	+5%
ICO Stage 3 (Last 61 days) - February-14-2019 / April-15-2019	No bonuses

16.4. BOUNTY & REFERRAL CAMPAIGN

The bounty pool is 500,000 GNC tokens

Activity	% of Bounty pool
BitcoinTalk Signature Campaign	25% = 125,000 GNC
Blog post / Article / Video Campaign	20% = 100,00 GNC
Social Media (Facebook & Twitter)	30% = 150,000 GNC
Telegram	5% = 25,000 GNC
Youtube	5% = 25,000 GNC
Translations and moderation	15% = 75,000 GNC

Activity	Rewards % of tokens purchased
Referrals	5%

Referral reward to a referral link owner is 5%, based on the number of tokens purchased using the referral link.

- The tokens will be transferable once the ICO is completed.
- If the minimum limit is not reached, the funds will be returned to the participants.
- Upon reaching the maximum limit, the ICO will terminate immediately.

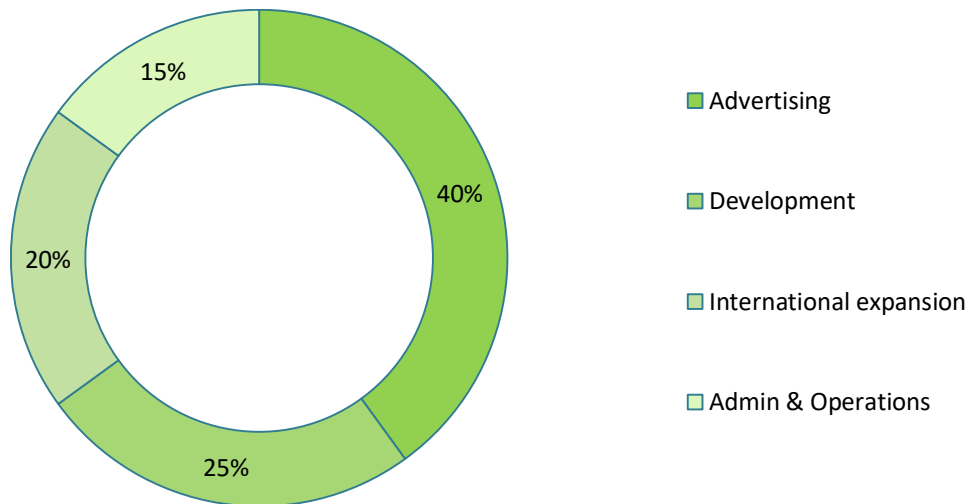
16.5. BREAKDOWN OF THE FINANCING UTILIZATION.

The funds collected during the PRE-ICO and ICO are planned to be used as shown in the following table.

- PRE-ICO

Assignment of planned funds	Percentage %
Start of Development of the platform	35%
Advertising for ICO	30%
Legal	25%
Headquarters and local offices	5%
Contingencies	5%

- ICO



- **Advertising**

Greencoin will continue to execute its marketing efforts in an efficient and profitable base, in which we will focus on creating awareness and adoption of the systems offered in the Greencoin platform to new users.

- **Development**

Costs cover all development costs including the design and development of intelligent contracts, cryptographic mechanisms, the Greencoin platform, applications, and interfaces. Greencoin plans to continuously support and introduce new features, user interfaces, and language support for Web, iOS, and Android.

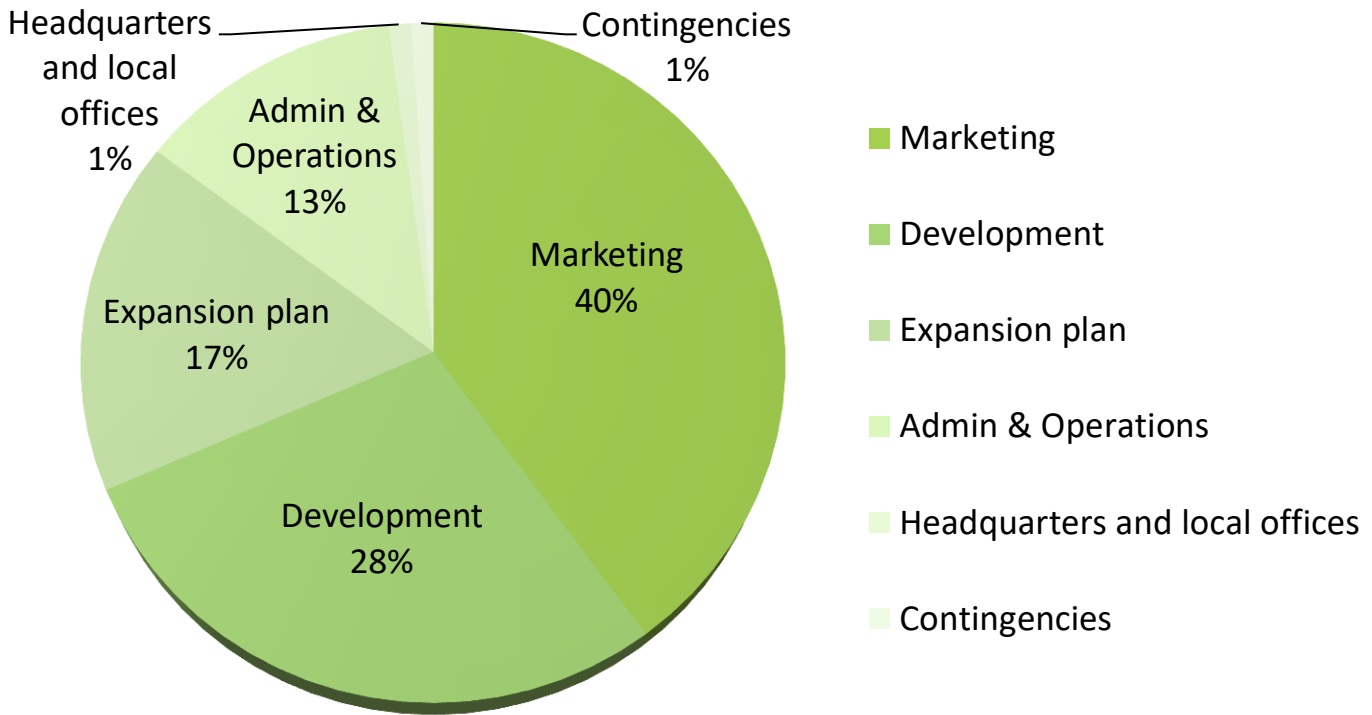
- **International expansion**

The resources assigned to sustainable growth and the expansion of the organization with a good vision for the future of Greencoin.

- **Administrator and Operations**

The costs include the salaries of all Greencoin employees, excluding the research and development team.

16.6. Total use of proceeds



17. KYC

The tokens are not being offered or distributed to, as well as can not be resold or otherwise alienated by their holders to citizens of, natural and legal persons, having their habitual residence, location or their seat of incorporation in the country or territory where transactions with digital tokens are prohibited or in any manner restricted by applicable laws or regulations,

18. TEAM AND ADVISORS



Karl Sanchez
Founder & CTO



Joshua Divas
Co-Founder & CEO



Vladimir Pomogalov
Blockchain & Smart
Contracts



Carmen Carranza
Manufacturer
Relationships & Marketing



Amr Sakr
Software Engineer



Ajay Shukla
Blockchain Developer



Vipin Shukla
Graphic Designer



Rashmi Kulkarni
Blockchain Developer



Richie Waddell
Hydrogen advisor



Erwin Sanchez
Hydrogen advisor



Robert Bruce
Renewable energies
advisor



Rick Benavides
Business Development
Advisor



+20 additional people in IT, Marketing, Customer Service, Logistics & Legal

19. RISK FACTORS

The acquisition of GNC tokens carries a high degree of risk. Each potential buyer of GNC tokens must carefully consider the following information about these risks before making the decision to purchase GNC tokens. If any of the following risks actually occurred, the Greencoin platform and the value of the GNC tokens could be materially affected in a negative way. The risks and uncertainties described below in this white paper may not be the only ones faced by token holders. Other risks and additional uncertainties could also negatively affect the Greencoin platform or the value of the GNC tokens.

- **Lack of development of the GNC token market.** As there has been no previous investment market for the GNC tokens, the sale of the GNC tokens described in this white paper might not result in an active or liquid market for the GNC tokens, and their price could be very volatile . Although applications have been made for exchanges of cryptographic tokens in order for GNC tokens to be admitted as investment instruments, an active public market may not be developed or maintained after the sale of GNC tokens. If a liquid investment market for GNC tokens is not developed, the price of GNC tokens could become more volatile and the token holder may not be able to sell or, otherwise, negotiate with GNC tokens at any time .
- **Red Ethereum.** The GNC token is a standard ERC20 token of the Ethereum protocol. The token is stored in Ethereum's wallet and blockchain platform. Overloads, technical failures, and mining attacks against the Ethereum network can negatively affect the value of the GNC token.

- **Storage of tokens.** The Greencoin Ecosystem does not store private keys or password data. The private keys and passwords are stored on the user's device, and the security of the tokens depends exclusively on the security of this device and the Ethereum platform. The loss or transmission of private keys or passwords could cause the loss of GNC tokens. The user's error in handling the portfolios could also lead to the loss of GNC tokens
- **Risks linked to a speculative highly quote price.** The valuation of digital tokens in a secondary market is not usually transparent, and is highly speculative. The GNC tokens do not carry any property rights relative to the assets of the company and therefore, are not backed by any tangible assets. The quoted price of the GNC tokens could fluctuate greatly in a short period of time. There is a high risk that a token holder may lose all of their contribution money. In the worst case, GNC tokens may not be worth anything.
- **Attacks during the initial offer.** We take custody of the funds received during the initial offer very seriously. The private keys will be kept in custody. Despite the measures we have taken we can not guarantee security against possible theft by hackers or a DDoS attack from a vulnerable website, a smart contract or the Ethereum platform. The theft of funds could affect the final version of the Greencoin ecosystem and negatively affect the value of the GNC tokens.
- **Risk of deficiencies in the software.** The concept of smart contracts of tokens, the underlying software application, and the software platform (i.e the blockchains of Ethereum and Bitcoin) are still at an early stage of development, so they are not properly tested. There are no representations or guarantees that the process of creating the GNC tokens is uninterrupted or free of errors. There is an inherent risk that the software may contain deficiencies, vulnerabilities or errors that cause, among others, the complete loss of the cryptocurrency or GNC tokens.

- **Risk of new technologies.** The Greencoin platform, the GNC tokens, and all the matters stipulated in this white paper are new and have not been tested. The Greencoin platform and the GNC tokens may not be able to complete, create, implement or adopt. It is possible that you never get to launch a blockchain that uses the Greencoin platform. The buyer of GNC tokens should not rely on the Greencoin platform, the smart contract of tokens or the ability to receive the GNC tokens associated with the Greencoin platform in the future. Although the Greencoin platform has been completed, implemented, and adopted; it may not work as intended and some GNC token may not have the functionality that would be desirable or valuable. In addition, the technology is changing rapidly, so the Greencoin platform and GNC tokens could become outdated.
- **Incompatible wallet service risk.** The wallet or wallet service provider used for the acquisition and storage of the tokens has to be technically compatible with the GNC tokens. Otherwise, the buyer of the GNC tokens will not have access to their GNC tokens.
- **Uncertain regulatory framework.** The regulatory status of cryptographic tokens, digital assets, and blockchain technology is confusing or conflicting in many jurisdictions. It is difficult to predict how or if government authorities will regulate such technologies. In addition, it is difficult to predict how or if any governmental authority could make changes to existing laws, regulations or standards that affect cryptographic tokens, digital assets, blockchain technology, and their applications. Such changes could adversely affect tokens in several ways, including, for example, the determination that tokens are regulated financial instruments that require registration. The company could cease the distribution of the GNC tokens, the development of the Greencoin platform or the operations in a jurisdiction in the event that governmental decisions lead to the continuation of such actions being illegal or undesirable from a commercial perspective.
- **Quantum computers.** Technical innovations, such as the development of quantum computers, can pose a danger to cryptocurrencies, including GNC TOKENS.

20. DISCLAIMER OF LIABILITY

If you are not sure about investing in the Initial Token Sale, please consult professional consultants in the legal, tax, and financial spheres.

This white paper does not contain any recommendation or advice on selling or buying GNC tokens. It does not constitute an investment decision or contract, therefore this document can not act as a basis for an investment or to conclude an investment agreement.

Nothing in this white paper shall be deemed to constitute a prospectus of any kind or an investment request, nor shall it in any way correspond to an offer or solicitation of an offer to purchase securities in any jurisdiction. This document was not written in accordance with and is not subject to the laws or regulations of any jurisdiction that prohibit or, in any way, limit transactions relating to or using digital tokens.

GNC Tokens are not binding or official investments of any kind. Due to unforeseen circumstances, the objectives set forth in this document may not be met. Despite the fact that our intention is to achieve all the objectives described in this document, all the people and parties involved in the purchase of GNC tokens do so at your own risk.

The GNC token is not a digital currency, a value, a raw material, merchandise or any other type of financial instrument and has not been registered under the Securities Law, the securities laws of any State of the United States or the laws of the United States. Securities of any other country, including the securities laws of any jurisdiction where a potential token holder may reside.

The GNC token can not be used for any purpose other than that provided in the white paper; which includes among others any investment, speculation or other financial objective.

The GNC tokens are not offered or distributed, nor can they be resold or, on the other hand, sold by their holders to natural persons and legal entities that have their place of habitual residence or official headquarters in a country or territory where transactions with tokens are prohibited or in any way restricted by applicable legislation or regulations.

If that restricted person acquires GNC tokens he will have committed an illegal, unauthorized, and fraudulent act and, in this sense, will have to face the negative consequences.

GREENCOIN does not offer or distribute the GNC tokens, nor does it conduct commercial activities in any regulated sector in United States, Singapore, in the People's Republic of China or in other countries and territories where relative transactions are subject to restrictive regulations or require Greencoin to register or receive authorization under license by the applicable government authorities.

Each buyer of GNC tokens is reminded that this white paper has been presented to them on the basis of being a person to whose attention this document could be presented legally in accordance with the legislation of the buyer's jurisdiction. It will be the responsibility of each potential purchaser of GNC tokens to determine if the buyer can legally purchase the GNC tokens in the buyer's jurisdiction and if the buyer can then resell the GNC tokens to another buyer in any other jurisdiction.



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