WHITE HYDROGEN

WHITEPAPER.

www.whiteh2coin.com

info@whiteh2coin.com

ABSTRACT

Play your part in the green energy revolution with the White Hydrogen Coin!

White H2 Coin (WH2C) is a blockchain token that allows holders to join the White Hydrogen Coalition and help us bring about the future of clean technology by supporting development, implementation and use of disruptive technology which transforms waste materials into environmentally friendly clean energy in the form of white hydrogen.

Technologies such as Low-Temperature Conversion (LTC) allows us to extract energy from waste materials, into white hydrogen and electricity at up to 70% efficiency based on the caloric value of the input material.

Despite such technologies already in existence we are still faced with surmounting waste production and ever higher carbon footprint due to lack of funding for their continuous development and implementation, barriers to market entry and unfair subsidizing of traditional carbon-based (oil and gas) energy producers.

With the White Hydrogen Coin, you can take part in the ground-floor phase of decentralized blockchain-based innovation crowdfunding and energy distribution platform. You may propose new and support existing technologies with staking your White Hydrogen Coins, redeem them for future purchases of White Hydrogen or sell them to other energy consumers.

Together we can bring about a better future, where municipal waste and plastic can become a source of clean energy powering the modes of transportation and manufacturing which cannot be powered by electricity and are thus difficult to decarbonize.

Our vision is to speed up and facilitate mainstream adoption of White Hydrogen and decentralize and democratize its production, consumption, transfer. White Hydrogen coin, we remove the need for large monopolies and governmental initiatives, putting the power back in the hands of us - the people.

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INTRODUCTION TO WHITE HYDROGEN COALITION

The White Hydrogen Coalition (WHC) is a distributed community of stakeholders and supporters of clean energy technologies aimed at cleaning the planet and decarbonizing energy production and consumption. Its name comes from a type of Hydrogen Gas, produced with the low-temperature conversion of plastic and waste into its core chemical components and electrical energy.

It was formed in 2017 in the Republic of Slovenia and is led by Robert Serec, MBA IMD, a Serial Entrepreneur & Business Executive and Blockchain Enthusiast with a demonstrated history of successful business ventures and managerial performance as a CEO and Board member of international and local corporations.

The mission of the White Hydrogen Coalition is to speed up and facilitate the mainstream adoption of clean technology solutions, such as the Low-Temperature Conversion (LTC) process that reduces the carbon footprint and waste pollution of the Earth and provides a source of clean energy of which White Hydrogen is the ultimate symbol.

Our team consists of scientists, blockchain entrepreneurs, developers, energy specialists, economists, business partners and ultimately all of you - the individuals who vested their trust in us and became members of the White Hydrogen Coalition and are helping us bring about a better - cleaner future for us and our children.

WHITE HYDROGEN COALITION INITIATIVES

The White Hydrogen Coalition focuses on three main initiatives:

Supporting development and implementation of disruptive clean energy innovations

Technologies, such as Low-Temperature Conversion present a great potential for solving some of the biggest problems our civilization is facing, such as climate change caused by carbon emissions and plastic pollution. Yet without our help, their adoption may come too late if at all.

The White Hydrogen Coalition is already working with several industry stakeholders who developed or licensed Low-Temperature Conversion technology and are ready to start its implementation.

It is our goal to procure the necessary financing for support and acceleration of its further development and implementation as well as find more such stakeholders with alternative but promising technologies, which could disrupt the energy market and address the same problems in the future.

Private and private-public partnerships for the implementation of clean technology

White Hydrogen Coalition is facilitating the development of Joint Venture partnerships in large projects in several countries around the world. We aim to connect with industry and governments to set up projects for the production of clean energy and waste treatment services to facilitate the adoption of technologies such as the Low-Temperature Conversion technology converting municipal solid waste into white hydrogen, electricity and byproducts that will be sold on local markets.

White Hydrogen Coalition will utilize its expertise to connect equity investors with traditional project finance to fund Joint Ventures with established alternative energy companies, developers and contractors.

White Hydrogen digital blockchain platform

The power of White Hydrogen Coalition stems from its blockchain platform and its native currency - the White Hydrogen Token, which empowers holders by allowing them to support promising projects and pre-order or trade with the energy created by the projects supported by the White Hydrogen Coalition.

THE PROBLEM

The White Hydrogen Coalition was formed to support the adaptation and worldwide implementation of technologies required to address two crucial issues we face today:

The decarbonization dilemma

Elon Musk famously stated that we are running the most dangerous experiment in history right now, which is to see how much carbon dioxide the atmosphere can handle before there is an environmental catastrophe in 2013.

The Intergovernmental Panel on Climate Change (IPPC) report of 2018 on global warming states that every extra bit of warming matters, especially since warming of 1.5°C or higher increases the risk associated with long-lasting or irreversible changes, such as the loss of some ecosystems, but limiting global warming to 1.5°C would require "rapid and far-reaching" transitions in land, energy, industry, buildings, transport, and cities. Global net human-caused emissions of carbon dioxide (CO_2) would need to fall by about 45 percent from 2010 levels by 2030, reaching 'net zero' around 2050[1].

> "We're running the most dangerous experiment in history right now, which is to see how much carbon dioxide the atmosphere ... can handle before there is an environmental catastrophe."
> ~ Elon Musk

Decarbonization by gradual process of the transition from fossil fuels to alternative energy sources is going too slow. The reports are clear - if we are to avoid natural catastrophe we need to act now, fast and globally.

Besides, certain industries, such as aviation, shipping, long-distance trucking or concrete and steel manufacturing, are difficult to decarbonize because these sectors require high energy density fuel or intense heat.

To hit the targets from the IPCC report we - as a society, would have to drastically change our habits which would severely disrupt our daily lives and shatter our economy.

It seems that we have to decide between continuing the most dangerous experiment in history and jeopardizing the habitability of Earth for future generations or drastically changing our daily habits and perhaps breaking the fragile global economy we rely upon for our daily survival.

We at the White Hydrogen Coalition believe there is a third option, whereby we speed up and facilitate development and adoption of White Hydrogen as an alternative fuel source.

1 Intergovernmental Panel on Climate Change (IPCC): Summary for Policymakers of IPCC Special Report on Global Warming of 1.5°C approved by governments, October 8, 2018.

The accumulation of waste

We produce more than 380 million tons of plastic every year and 2.01 billion tons of municipal solid waste annually.

There are estimated 1.15 to 2.41 million tons of plastic entering the oceans each year from rivers, forming “man-made” patches of debris, such as the Great Pacific Garbage Patch, which covers an estimated surface area of 1.6 million square kilometers, an area twice the size of Texas or three times the size of France.

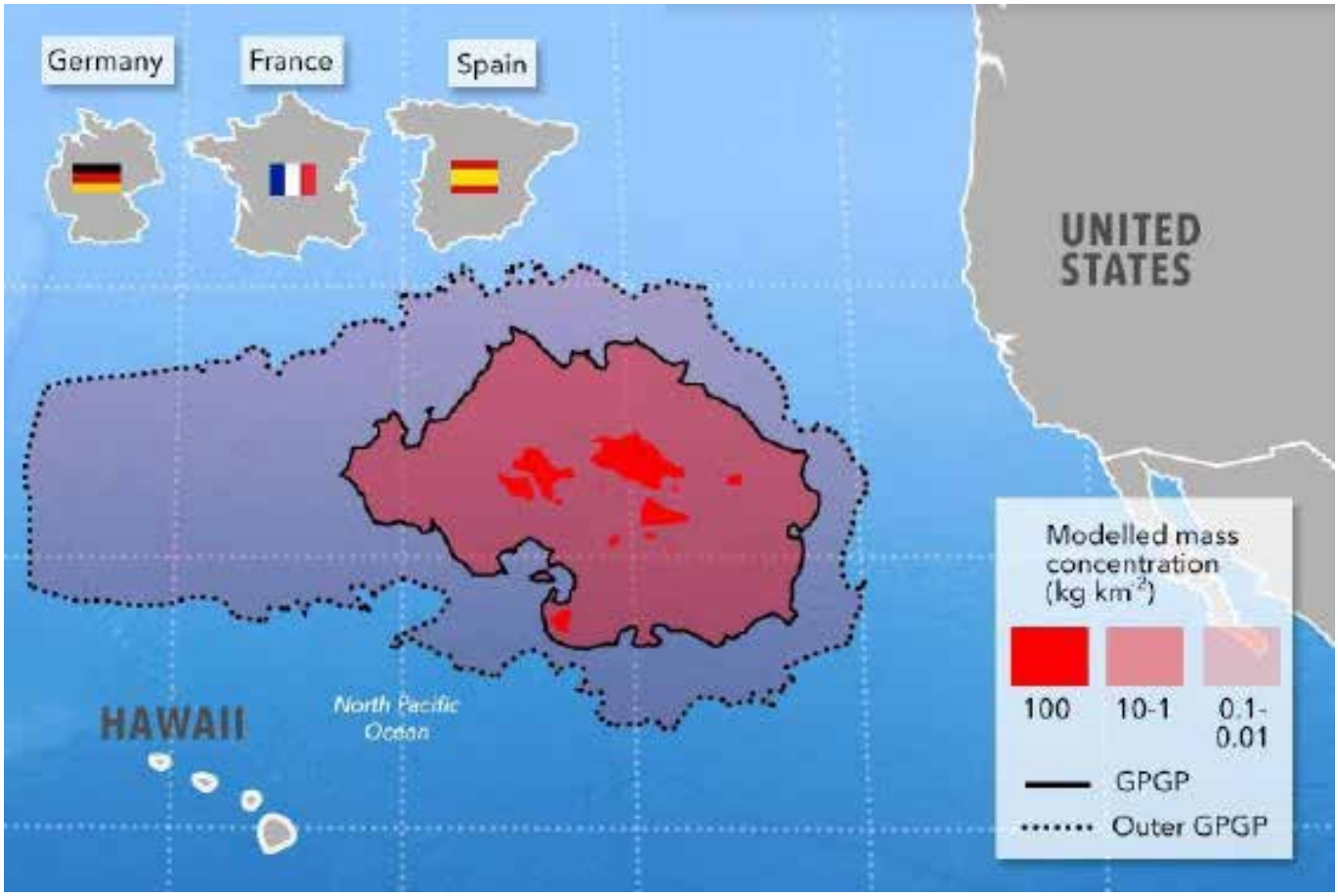

Figure ! The great Pacific garbage patch

Even with young entrepreneurs, such as the young Boyan Slat of The Ocean Cleanup, stopping the plastic from entering into the oceans and cleaning them of debris, we are still left with the question of how to solve the problem of ever increasing amounts of used plastic which can’t be recycled and municipal waste clogging up our landfills.

SOLUTION - Low temperature conversion and white hydrogen

Low Temperature Conversion

The low-Temperature Conversion (LTC) process is a patented method for using waste materials, such as all kinds of plastic, used tires, sewage sludge, household waste, biomass, and similar organic waste materials, to produce synthetic gases for the generation of power, heat, synthetic fuels and chemical products.

It allows us to extract Hydrogen and Carbon monoxide from waste materials, at minimum of 80% efficiency based on the caloric value of the input material.

The goal of this process is the efficient processing of solid and liquid raw materials and waste. The materials are recycled through thermal decomposition into conversion gas that is then turned into useful products such as Hydrogen itself, or different Synthetic Fuels, Electricity or Chemicals.

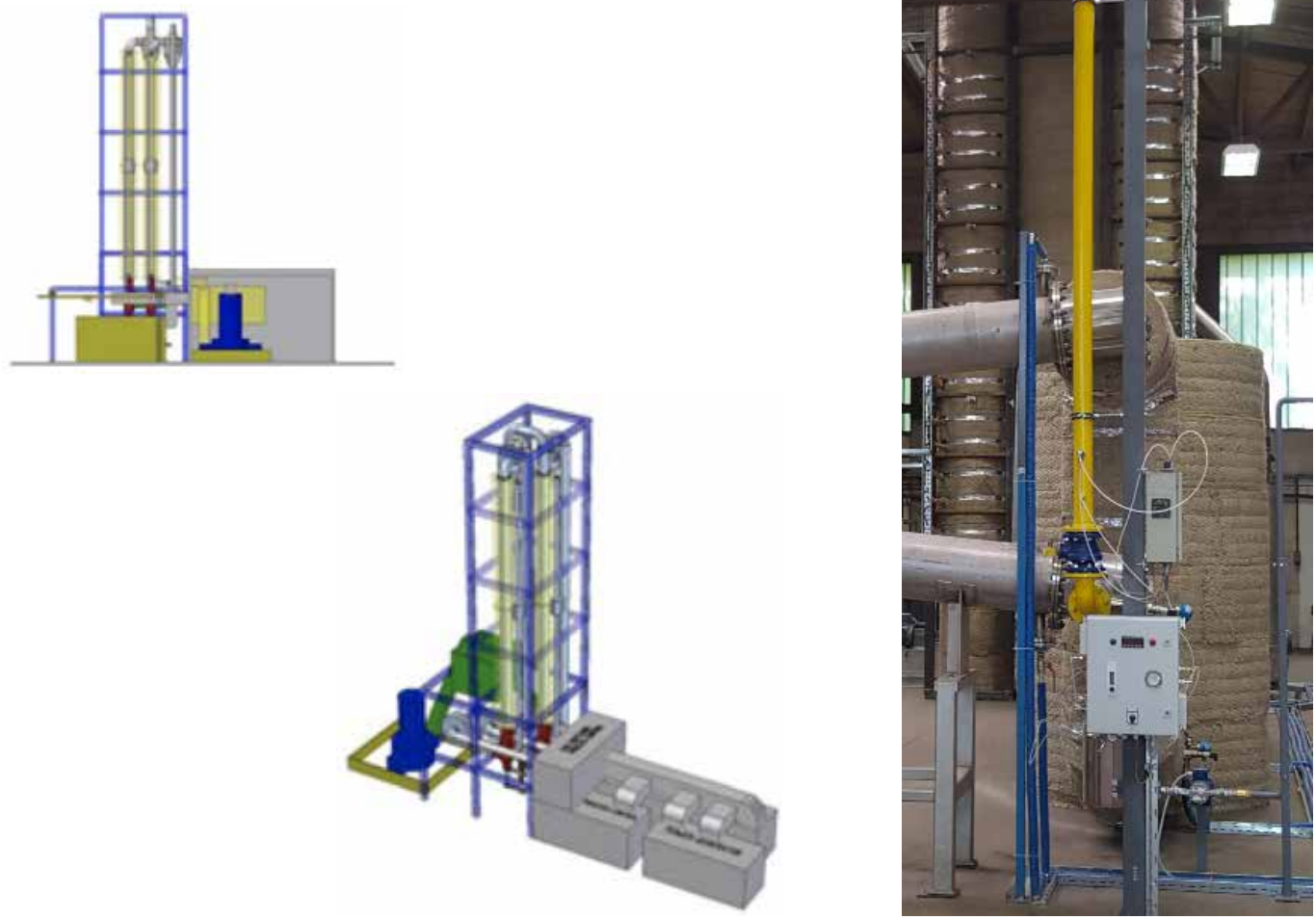

Figure 2 Schematics and a photo of the first functional prototype of the LTC plant.

Low-temperature conversion (LTC) plants utilize progressive thermo-catalytic material gasification in tween 10m towers with 18 temperature segments. The material is gasified by infra-red induction heat below 450°C and integrated gas purification, all within a hermetically closed system. The result is a clean process with a very high yield. The plant's fluidized bed reactors allow for continuous flow while inductive heat transfer decomposes organic structures into their constituent elements in a multi-stage process.

No toxic gases, such as dioxins, furans etc. arise. Inorganic materials such as metals are not overheated, they pass through the LTC plant without generating any pollutants. The molecular structure of heavy metals is not broken down, but instead remains solidly together and thus difficult to dissolve.

Pollutants in the gases are leached out, precipitated in the plant and can be recycled in the industry as salvaged materials in powder form. Depending on the material input into the system, disposal site compliant material, fertilizer or high-quality raw materials remain as the waste product.

The progressive thermos-catalytic material gasification with integrated gas purification is carried out in an entirely closed-off plant system.

Low Temperature Conversion allows us to extract Hydrogen and Carbon monoxide from waste materials, at minimum 80% efficiency based on the caloric value of the input material.

Efficiency of the LTC process

The efficiency is the ratio between the work done and the supplied power. Basically, the efficiency achievable in all energy/work-coupled plants in practice clearly lies below the theoretical values.

This law also applies to conversion plants. Input-material-dependent to efficiencies of minimum 80%In the process, the plant itself consists of few moving components, whereby the susceptibility to interference is accordingly low.

Hydrogen - fueling the future

Hydrogen gas (H_2) has been touted as the fuel of the future for years, as it represents a viable alternative to fossil fuels even for industries that are particularly difficult to decarbonize as they require high energy density fuel or intense heat. It can be used to power industry and transportation from private and public transport to trucking and aviation alike.

In fact, hydrogen represents the single largest growth potential in renewables with a total demand of around 115 million metric tons in 2018 (60% for 'pure' hydrogen and 40% for hydrogen-based fuels) which represents about USD 135 billion and is projected to grow to USD 199 billion by 2023[2].

2 In chapter 4 of Market Research Future's (2020) Hydrogen Generation Market Research Report: Global Forecast till 2023 (https://www.marketresearchfuture.com/reports/hydrogen-generation-market-7026), research shows that the demand to decarbonize energy use, and a shifting trend towards cleaner energy, will drive demand for hydrogen.

Functional applications in transport

PERSONAL TRANSPORTATION

e.g. Toyota Mirai

Other companies working on similar hydrogen fueled solutions: General Motors, BMW, Groupe Renault, Daimler AG, Hydrogenics, Mazda Motor Corporation, Kia Motors Corporation, Tata Motors Limited, and The Hyundai Motor Company and others.

TRUCKING

e.g. Toyota + Hino

Other companies working on similar hydrogen fueled solutions: Toyota, General Motors, Daimler, Volvo and Hyundai and others.

AVIATION

Airbus ZEROe

Other companies working on similar hydrogen-fueled solutions: Zero Avia, Phoenix PT and others.

BOATING

Other companies working on similar hydrogen-fueled solutions: Swiss Sustainable Yachts, Yanmar/Toyota, Hydrogenesis, NYK, Bristol and others.

Not all hydrogen is "created equal":

With its general purpose usefulness being a well-established fact, we have to look at its source not to fool ourselves as to its environmental impact. Despite itself being a colorless gas the industry players use colour codes like 'green, blue, grey and white hydrogen' to distinguish between the different types of technology used to produce H_2 gas.

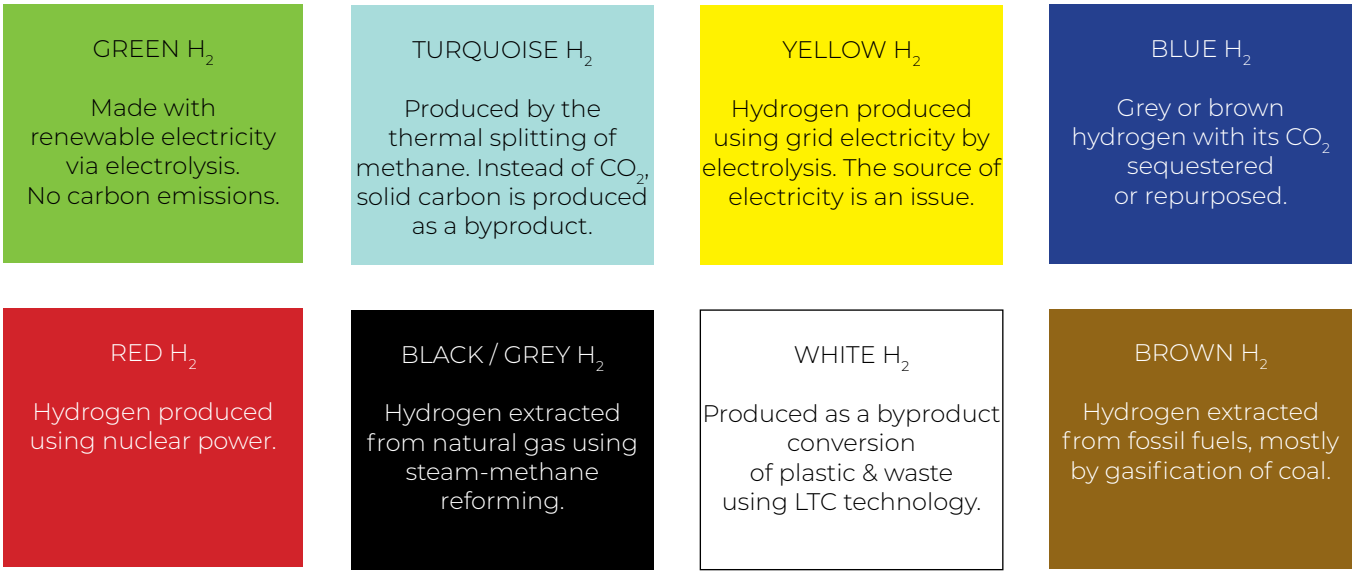

Figure 3 Not all hydrogen is "created equal"

Grey hydrogen for example is essentially any hydrogen created from fossil fuels without capturing the greenhouse gases made in the process. Blue hydrogen on the other hand is produced mainly from natural gas using a process called steam reforming, which brings together natural gas and heated water in the form of steam. White Hydrogen definition: the H_2 produced by gasification of biomass and plastics residues via syngas without emissions.

Today, virtually all of this hydrogen is supplied using fossil fuels without carbon capture, utilization, and storage (CCUS) and this production represents about 6% of the current global natural gas demand[3].

The Low Temperature Conversion process described above allows us to extract pure hydrogen gas without any subcomponents. Moreover it can be extracted from waste and plastic, thus reducing the waste.

3 International Energy Agency. (2019, June). The Future of Hydrogen. p. 17, 37-38. Retrieved from https://webstore.iea.org/the-future-of-hydrogen.

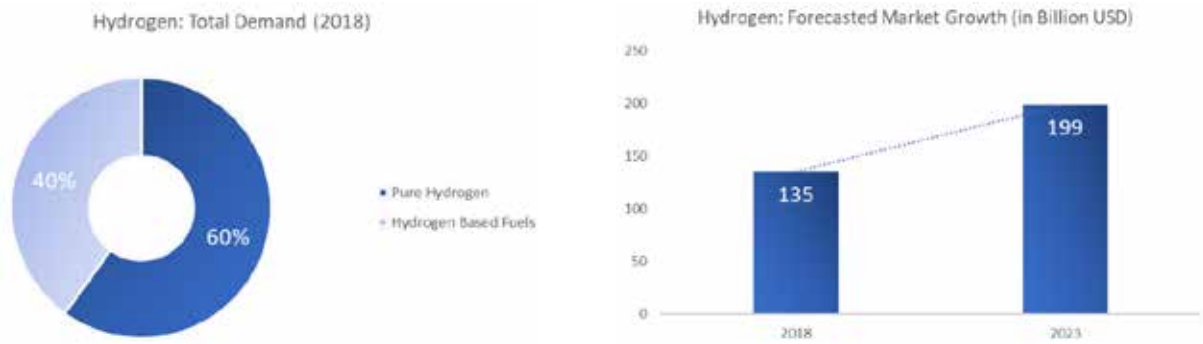

Figure 4 Hydrogen - market outlook

Why does this technology need our support?

The Union of concerned scientists cites capital costs, barriers to market entry and unequal playing field as the main obstacles for widespread adoption of green/renewable energy sources.[4]

Capital Costs: The capital costs of research and development in technology are notoriously high and independent researchers in the field of green technology are not particularly good at fundraising.

Barriers To Market Entry: For most of the last century the energy market was dominated by certain major players, including oil, natural gas and coal. Producers and utilities across the globe have invested heavily in these technologies, which are very mature and well understood, and which hold enormous market power. The well-established position of existing technologies presents a difficult obstacle for new technologies focused on clean and renewable energy. This is especially difficult since most investors want large quantities of energy, while most new technologies require gradual adoption to improve before they can be used to provide energy at an industrial scale.

Unequal Playing Field: Finally, multi-billion dollar industries naturally hold outsized political influence. The UCS report for example states that the Oil Change International estimates that the United States spends $37.5 billion on subsidies for fossil fuels every year. Through direct subsidies, tax breaks, and other incentives and loopholes, US taxpayers help fund the industry's research and development, mining, drilling, and electricity generation. While other countries may not be quite as extreme, the global political landscape nevertheless seems to only support development of green technology and clean energy on paper, while supporting fossil fuel production with taxpayer's money.

The only widely championed piece of global policy intended to level the playing field so far was the "carbon tax" proposed by the Paris Agreement of 2015 signed by 195 parties. The World Bank reports that 40 countries actually implemented it as of 2020.

With such headwind, it is no wonder that the development and widespread adoption of clean energy alternatives is still lagging behind.

4 Union of concerned Scientists: Barriers to renewable energy technologies. (2014, June 6). Retrieved April 18, 2021, from https://www.ucsusa.org/resources/barriers-renewable-energy-technologies.

THE WHITE HYDROGEN DIGITAL BLOCKCHAIN PLATFROM

Due to the significant barriers to rapid development and adoption of the Low Temperature Conversion (LTC) process and similar technologies described above, we were left with no choice but to start the White Hydrogen Initiative and organize the “pull” part of the equation for the environmental progress - the extent to which individuals will “vote for green” not only with their ballots but also their wallets.

The White Hydrogen Platform represents a technologically advanced solution designed to form a distributed global initiative of individuals who want to address the decarbonization dilemma and the accumulating waste and used plastic polluting our landfills and oceans.

We invite all of you to make a major positive impact on the environment by listing and supporting white hydrogen solutions aimed to reduce carbon, methane, and other harmful emissions by displacing fossil fuel in the power generation, transportation, industry.

The early White Hydrogen Coin purchasers will be incentivized with discounted price of the token as well as potential further increases in the value of the coin due to the rise of the amount and price of the hydrogen produced by the projects supported by the White Hydrogen Initiative, notwithstanding the fact that your support may very well speed up the adoption of this much needed technologies.

Blockchain technology allows the White Hydrogen Coalition to set up a platform where each holder of the White Hydrogen Coin can... get rewarded automatically without the need for a third party or intermediary to govern the transaction, which is instead governed by the code itself.

A brief introduction to blockchain technology

Blockchain is a powerful software technology sitting on top of the world wide web developed for establishing digital trust between users, facilitating transactions of value, over a network “distributed ledger” and enabling the development of virtual machines “state machine” which allows for the development of distributed platforms and applications and deployment of smart contracts.

Simply put, the blockchain technology allows the White Hydrogen Coalition to set up a platform where each holder of the White Hydrogen Coin can stake their coins to support our projects and get rewarded automatically without the need for a third party or intermediary to govern the transaction, which is instead governed by the code itself.

Ethereum Software Platform: The White hydrogen platform will run on the Ethereum software platform, which is an open-source software platform that developers can use to create cryptocurrencies and other digital applications. Ethereum is the most actively used blockchain known for providing a distinct and accommodating developer experience featuring the Ethereum Virtual Machine (EVM), a unique software system that allows developers to launch any dApp regardless of the underlying coding language and its own programming language known as Solidity for coding smart contracts.

Smart Contracts: A smart contract is computer code that executes a predetermined function allowing two or more parties to initiate and carry out a transaction without the use of a traditional intermediary or other third party. Smart contracts are transparent and unchangeable, making it impossible for one party to later alter the terms of the contract in their favor. Smart contracts can involve any number of players located anywhere in the world, thanks to blockchain technology.

Cryptocurrencies And Cryptographic Tokens: The smart contract can create a new digital asset known as a token that can be used as digital currency in connection with a particular distributed application. Unlike the bitcoin blockchain, which is the exclusive home of bitcoin, the Ethereum blockchain hosts an unlimited number of digital currencies. The newly created smart contract not only creates the new token, it also oversees the transactions involving the token.

Decentralised Applications: Decentralised Applications (dApps) are software applications and digital platforms which have their backend code (smart contracts) running on a decentralized network and not a centralized server. They use the blockchain for data storage and smart contracts for their app logic.

Specifications and features of the White Hydrogen Platform

The White Hydrogen Platform will be developed as a decentralized platform based on Ethereum, featuring the ERC20 standard token called White Hydrogen Coin (WH2C). It will offer a reliable, trusted, real-time, crowdfunding of clean energy technology development and implementation projects and affordable clean energy transaction experience among energy producers, distributors and consumers.

All transactions between parties will be performed in White Hydrogen Coins (WH2C) based on the underlying smart contracts. Furthermore, it will allow for real-time data from the hydrogen producers on the amount of hydrogen produced, waste treated and, data metrics on customer usage.

Key stakeholders: The key stakeholders of the White Hydrogen Platform are:

- Technology owners: who seek funding of their technology research or deployment and agree to license their technology or pay royalties to the White Hydrogen Coalition to support further developments and other projects.

- Energy producers: who wish to implement various technologies developed or licensed by the White Hydrogen Coalition to produce energy for internal use (industry) or distribution (energy producers) and agree to sell a portion of the energy and/or white hydrogen thus produced via the White Hydrogen Platform.

- Energy distributors and traders: who wish to facilitate transactions between the energy producers and consumers.

- Energy consumers: who wish to purchase energy or energents and raw materials produced for their own consumption.

- White Hydrogen supporters: who wish to bring about the necessary change in the energy industry, facilitate the transition from fossil fuels to clean energy and reap the rewards of participating in this $200B+ market for energy.

Plant Starter Program: The White Hydrogen Platform builds on crowdfunding as a popular means of funding raising popularized by the likes of Kickstarter and Indiegogo, and utilising this efficient concept to help promising clean energy projects to develop and deploy their technologies. The White Hydrogen Coalition will set the basic requirements which the projects need to fulfil, but the final decision on whether any particular project gets funded will ultimately reside in the capable hands of the backers, thus crowdsourcing project review and fool-proofing of the proposed technologies.

B2B Marketplace: The White Hydrogen Platform will allow business partners to engage in local or global transactions related to sales and purchases of clean energents and materials produced with technologies implemented by projects sponsored by the White Hydrogen Coalition.

Business model and use cases

The White Hydrogen Platform business model allows groups of individuals to fund energy projects. A classic use-case would be a mayor of a town/city, which is struggling with clean energy production and garbage disposal but does not have enough resources allocated through the budget to finance the building of a local LTC powerplant.

They can easily start a crowdfunding campaign inviting local citizens as well as foreigners to participate and fund the effort. This is how we produce global results with local initiative.

Total Addressable Or Available Market (TAM): We produce more than 380 million tons of plastic every year and 2.01 billion tons of municipal solid waste annually. There are estimated 1.15 to 2.41 million tons of plastic entering the oceans each year from rivers, forming "man-made" patches of debris, such as the Great Pacific Garbage Patch, which covers an estimated surface area of 1.6 million square kilometers, an area twice the size of Texas or three times the size of France. A whopping 91 % of plastic is NOT recycled and if present trends continue, by 2050, there will be 12 billion metric tons of plastic in landfills.

It is especially worrisome that 95% of all plastic is discarded after its first use. Every year, the production and burning of plastic release more than 400 million tons of carbon dioxide into the Earth's atmosphere.

Serviceable Available Market (SAM): White Hydrogen Coalition is going after globally with its unique solution. In order to eliminate all the plastic produced per year 380 million tons 47500 such plants would be needed, and we didn't touch the existing quantities of plastic waste materials.

If we only address 3 % of total quantities of plastic pollution every year this could set our realistic SAM target by installing 1.425 plants with DAO White Hydrogen Coalition without even touching municipal solid waste and or existing plastic waste in the next ten years.

The business development model is based on a used case in practice which is the reason we start small with one facility that is going to serve as a showcase for others. Since White Hydrogen Coalition started informative discussions with business partners already, we stand firm behind the numbers that demonstrate strong growth in the next five to six years from one to 200 plants in operation. If you only take Slovenia there is a place for 30 plants to clean up the waste mass and Slovenia is a "micro" country with 2 million population in comparison to the EU, India, China, the USA, and other countries, wherefrom our partners

seek use case in action from there orders in 10 to 50 plants per order.

SOM Serviceable Obtainable Market: In Slovenia alone each person creates 532 kg of waste per year. Waste distribution leads to 240.000 ton of plastic waste per year that needs to be processed in order for quantities to be reduced or eliminated. With a plant capacity of 8.000 tons, there're 30 plants needed to face those quantities and some more to address waste in the landfill deposed already.

In fact, hydrogen represents the single largest growth potential in renewables with a total demand of around 115 million metric tons in 2018 (60% for 'pure' hydrogen and 40% for hydrogen-based fuels) which represents about USD 135 billion and is projected to grow to USD 199 billion by 2023[5].

White Hydrogen Coalition business case execution is going to represent following facts after 6 years:

BENEFITS for the WORLD, our green planet:

- 200 plants in 2026 digest 1,6 million of plastics per year.
- Produces 230.000 tons of Hydrogen, source of energy for the future (according to some studies hydrogen could represent 25 % of energy use in 2050) or to put it in perspective; if one plant can supply 7.500 hydrogen driven cars we are talking about 1,5 mio hydrogen car fleet miracle running around the world and keeping our planet green.
- Reduction of CO_2 foot print by cutting emissions for 14.285 tons per plant which gives total of 2.857 million tons of CO_2 per year and thus creating 100 million EUR.

5 In chapter 4 of Market Research Future's (2020) Hydrogen Generation Market Research Report: Global Forecast till 2023 (https://www.marketresearchfuture.com/reports/hydrogen-generation-market-7026), research shows that the demand to decarbonize energy use, and a shifting trend towards cleaner energy, will drive demand for hydrogen.

THE WHITE HYDROGEN COIN

The White Hydrogen Coin is a cryptographic token based on the ERC20 protocol.

The White Hydrogen Platform utilizes the Ethereum blockchain as a Public Layer, where the White Hydrogen Coin interfaces with a third-party token exchange.

The Public Layer and third-party exchanges operate independently and are outside of White Hydrogen Coalition's control and provide the most advanced security and decentralization are available to the ERC20 standard tokens.

Holders may use the White Hydrogen Coins to fund projects, exchange them publicly or store them and utilize them later for purchases of white hydrogen and energy within the White Hydrogen Platform.

The White Hydrogen Coin thus functions as a store of value as well as the native currency of the White Hydrogen Platform.

White Hydrogen details:

SYMBOL – (WH2C) (ERC20)

TOTAL SUPPLY – 446 MIO

INITIAL TOKEN SALE - 30 MIO in total

Stage 1. PRIVATE PLACEMENT - 01.05.21 - 30.06.21

Stage 2. PRESALE - from 01.07.21 - 15.03.22 (price 0,204 EUR)

Stage 3. IDO - from 16.03.22 - 15.07.22 (price 0,24 EUR)

PLANT STARTER RELEASES: 194.5 MIO

White Hydrogen Coin initial distribution:

INITIAL TOKEN SALE: 30 M (Private placement 8 M (1,75%), presale 10 M (2.25%), IDO 12 Mio (2.7%))

Founders/Management/Operations[6]: 245,3 M (45% + 6% + 4%)

Reserve: 151,4 M (33.95%)

R&D, business development: 13,4 M (3%)

Cryptocurrency Rebate Program: 9.8 M (2,2%)

Marketing: Referral/Bounty/ Rewards/Community: 4 M (0,9%)

6 Released on the standard vesting schedule of 25% p.a. with a one year cliff a.k.a. the "lock-in" period.

Goal-based subsequent releases:

Table 1 Subsequent - goal-based releases of the White Hydrogen Coins in the circulation.

Year	Added Value (EUR)[7] (mio)	Number of Tokens Released (mio)	Sale price	Market price
2021	0	30	0,204	0
2022	8	20	0,4	0.2
2023	24	46,5 (6.5 founders)	1	0.31
2024	240	34 (4 R&D crew)	5	2.30
2025	800	44 (10 founders, 4 R&D crew)	8	5.73
2026	1.600	50 (30 founders)	15	8.91
2035	10.000	all remaining tokens released by 2035	15-30	28.81

7 The Value Added is measured as the total value of the energents/energy sold via the Whiute Hydrogen platform.

WHITE HYDROGEN COIN TOKENOMICS

The White Hydrogen Coin will be tied to the retail value of the hydrogen gas produced as a result of projects related to the White Hydrogen Coalition and traded via the White Hydrogen Platform.

The theoretical framework for modelling the intrinsic value of the White Hydrogen Coin (C) is thus a function of the value of the network (energents sold on the White Hydrogen Platform) (T), velocity of transactions or the number of times each token is exchanged in a period of one day (V) and the number of tokens in circulation (M). The value of the White Hydrogen Coin can thus be calculated with a simple equation $C = T / VM$ as per Buterin definition[8], which is a slight variation on the equation of exchange commonly used in monetary economics (MV = PQ) stated by John Stuart Mill[9].

Based on this model, we can deduct that the intrinsic value of the White Hydrogen Coin has two main pressures towards growth - the success of the projects supported by the White Hydrogen Coalition and the subsequent increases of the value of energents produced and sold via the White Hydrogen Platform, as projected in the column T in the table below, and the limitation on the total number of the total supply of the White Hydrogen Coins.

In addition, we can assume that certain percent of all White Hydrogen Coin holders may choose to hold the White Hydrogen Coins long-term for speculative purposes or due to lacking infrastructure for the use of Hydrogen fueled vehicles in their vicinity.

White Hydrogen Coin tokenomics applied

Please note that this model is purely theoretical in nature and can in no way be relied upon for any prediction of future profits. Its sole role and purpose is to demonstrate the application of the tokenomics model described above to the set of goals proposed by the White Hydrogen Coalition.

Note that the model itself is based on a simplified model for instructional purposes and is not intended to project the future values of the White Hydrogen Coin.

Assumptions:

1. **On the number of tokens in circulation:** This model assumes all goals are accomplished within the timeframes suggested in the Table 1 above and the White Hydrogen Coins are released accordingly. It further assumes that 20% of the total White Hydrogen Coin supply in circulation will not be used to perform any transaction as it is being held by the users for speculative or utility purposes at any given time.

8 Vitalik Buterin: On Medium-of-Exchange Token Valuations, 17. October, 2017 https://vitalik.ca/general/2017/10/17/moe.html.
9 Mill, John Stuart; Principles of Political Economy (1848).

2. On the value of the White Hydrogen Platform: This model assumes that the total network value equals the amount of the total value of the energents/energy sold via the White Hydrogen platform, defined above in Table 1. as the "Value Added".

3. On the intrinsic value of the White Hydrogen Coin: Models predicting velocity are generally found to be quite unreliable, which means predicting velocity at this point is not yet possible. Therefore, this model disregards the impact of velocity on market price of the White Hydrogen Coin. Market value is instead calculated using only predicted data on the number of White Hydrogen Coins released and the predicted energy value generated by the White Hydrogen Coalition ecosystem. As more users join the White Hydrogen Initiative, the model shall be updated. However, until White Hydrogen Coin becomes widely used, the Coin shall be sold at the price of presale and ICO price above.

Table 2 The data for modelling the price of the White Hydrogen Coin

Year	T[10] (added value) (EUR) (mio)	M (total number of tokens in circulation) (mio)	Tokens withheld from circulation (20% in holding) in M	C (price of one White Hydrogen Coin) (EUR)
2021	0	30	6	0,00
2022	8	50,1	10	0,20
2023	24	96,6	19,3	0,31
2024	240	130,6	26,1	2,30
2025	800	175,6	34,9	5,73
2026	1.600	224,6	38,9	8,91
2035	10.000	446	89.2	28,03

10 Same as the Value Added in Table 1.

Tokenomics model chart

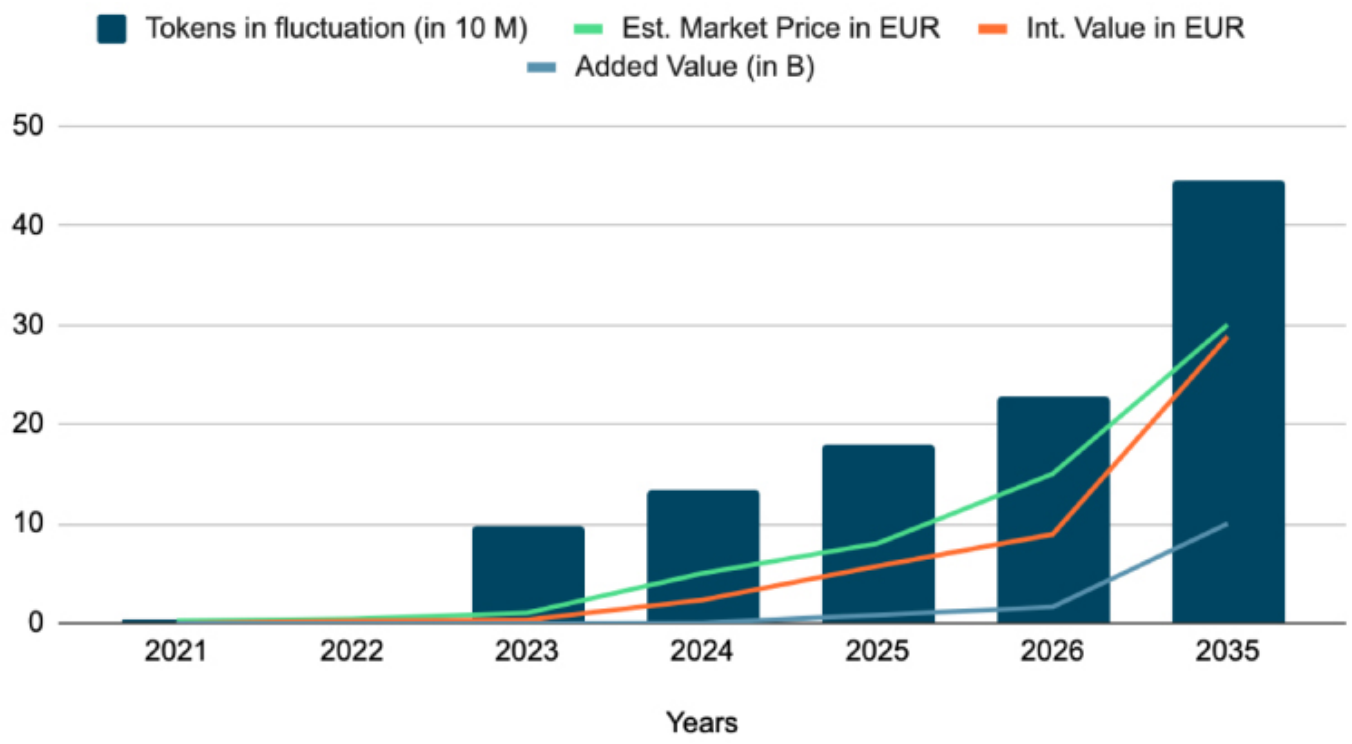

Figure 5 Tokenomics model chart

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