

ZERO CARBON ECOSYSTEM

(\$ZCARB AND CARBON PAY)

Litepaper

Introduction

Zero Carbon Ecosystem (\$ZCARB token and Carbon Pay) was an answer to a simple question.

What would happen if a cryptocurrency project was 100% run by its community and used to do good for humanity and save the environment?

While none of us had imagined it at the time, this was the start of a revolution.

Projects built on the foundation of community involvement are the untamed wilderness of our future. As we move further away from rigid social structures and traditional mindsets, we become free to discover new ways to solve humanity's problems.

In a world ruled by the commodification of time, community-based projects that use the power of decentralization are more than just a change of pace; they are a way to practice the radical acceptance of a world without a governmental structure. When success depends on the shared strength of the individual who makes up a collective to do good for the world and save the environment from hazardous effects of greenhouse gases and climate change, we are forced to shift our perspectives to align with those around us. Zero Carbon Ecosystem is our way of recognizing the importance of tearing down a long-established paradigm of formulaic success and building a path to sustainable and environmentally friendly ecosystems for our home earth.

A community is held together by hundreds, if not thousands, of interconnected moments. By studying those drawn to our project, we realized that true power doesn't come from a single perspective; it comes from working together in harmony.

With that thought bright in our minds, we began developing the Zero Carbon Ecosystem in earnest.

Our Aim

We are standing at a pivotal moment in innovation. Until now, centralization has been a prerequisite for all our official structures. Political, educational, and financial systems are, and have always been, crafted in a way that does not equally and ethically distribute power to those functioning within them. There may have been times in history where this sort of internal configuration played an important role, but, in an age with the world's information available at the click of a button, it's time to rethink.

Considering the problem from an environmental perspective, the number of offshore oil rigs in the US has doubled over the last year. The Paris Climate Accord, the source of so much optimism in years past, seems incapable of holding nations to account. While change is happening, it is too slow, marred by private interests and an influential conservative majority that continues to deny the truth: we are on the edge of disaster.

Is this the fault of the government? Yes. These are democracies created to implement our wants and care for our needs. In falling short of this, they have failed in their mandate to serve and uphold the majority will – instead of succumbing to the pressure of profit-driven corporations and fringe stakeholders. Beyond the crime of neglecting climate change, governments are failing to safeguard the integrity of democratic life.

"We live in a strange world where children must sacrifice their own education to protest against the destruction of their future. Where the people who have contributed the least to this crisis are the ones who are going to be affected the most." -Greta Thunberg.

Currently, the world exceeds and even double the 1.5 degrees temperature threshold¹ in this lifetime. At this rate, even a 99% commitment to tackling climate change is not enough, and history already taught us that centralized systems incentivized by capitalist ambitions would not help us. Therefore, we believe that solution lies in decentralization. As the Zero Carbon Ecosystem founders, we are here to change the status quo and drive humanity towards progress in reducing carbon emissions.

¹ <https://www.irishtimes.com/news/environment/world-may-hit-1-5-degrees-temperature-threshold-in-next-five-years-wmo-warns-1.4577074>

How \$ZCARB Token Can Prevent Climate Change?

The Intergovernmental Panel released the AR6 WG1 report² on Climate Change (IPCC) in August 2021. (The IPCC is the United Nations body for assessing the science related to climate change.) Carbon budget calculations have been adjusted slightly since the previous report of 2018. The residual global carbon budget to remain within 1.5° global warming with 66% probability is given as 400 billion tonnes CO2 from 2020.

According to calculations, this carbon budget will run out in 9 years if countries continue to emit greenhouse gases at the current rate.

Zero Carbon Ecosystem with a supply of 400.000.000.000 \$ZCARB token, each token worth 1000kg (1 ton) of CO2, aiming to be an approximate measurement of the world's carbon budget.

Apart from gaining its value from the market demand, we aim to use this token to incentivize people to pay for their carbon emissions caused by their daily spending.

We believe that a decentralized payment system that charges households and firms for their carbon emissions can make them unnecessarily disincentivize spending the world's carbon budget, creating an incentive to emit zero-carbon.

Therefore, we developed a payment system called **Carbon Pay** that approximately calculates people's carbon emissions according to their self-report and informs people how much their carbon emission spending is worth in ZCARB token, incentivizing them to pay for their consumption of the world's carbon budget.

² <https://www.ipcc.ch/report/ar6/wg1/>

\$ZCARB Tokenomics

Total supply of 400 billion \$ZCARB token will be distributed as written below:

- 10% of total supply = 40 billion \$ZCARB token will be sold to the early investors for a price of 0.001 USDT (Tether) for each coin, providing us with the liquidity of 40.000.000 USD to back up the value of ZCARB Token initially.
- 20% of total supply = 80 billion \$ZCARB token will be reserved for the team members and added to the market supply at a slow pace not to cause the devaluation of the token price. Earnings from these reserved tokens will be used to support Zero-Carbon Companies worldwide, incentivizing the reduction of carbon emissions (explained in the next section).
- 70% of total supply = 280 billion \$ZCARB token will be distributed to the community after being listed in various exchanges such as Binance, Coinbase, KuCoin, and Gate.io.

Why MATIC Network?

Looking at all the other blockchains, you might wonder why \$ZCARB Token is on the MATIC network. The reason is that MATIC is one of the most eco-friendly, efficient and scalable blockchains with near to zero carbon emissions using Proof of Stake (PoS) to verify transactions.

As MATIC grows every day, being used by more dApps and dEXs, it is rising as one of the most used blockchains. MATIC network with its premise is growing in popularity and is widely used throughout the crypto world, allowing Carbon Token to be widely used everywhere and by everyone.

How Carbon Pay Will Work?

Created as a Chrome Extension, Carbon Pay will make the payment process of carbon emission fees easier, accessible, and scalable for people. Through the extension, people will be able to buy the ZCARB token created in the MATIC network, calculate their carbon emissions, learn its value in terms of ZCARB coin, and pay their carbon fees using their ZCARB tokens.

Each payment made using Carbon Pay will send ZCARB tokens to a burn address with an unknown private key and take them out of the total supply, called “burning” in the crypto ecosystem.

The Carbon Pay system will make our ZCARB token deflationary over time by decreasing the overall supply after each payment and increasing the value of the ZCARB token corresponding to US dollars. Disincentivizing households and companies to emit more greenhouse gases like the carbon budget of the world decrease over time.

Using Carbon Pay, people will calculate their carbon emissions daily, weekly, and monthly according to their self-reported data. After tapping to “Pay” button, they will enter their consumptions in three different sections.

- House
 - Electricity, Natural Gas, Heating Oil, Coal, LPG, Propane, and Wooden Pellets
- Transportation
 - Flights, Car, Bus, Rail
- Custom
 - Self-reported carbon emission by individuals

Carbon Pay will automatically calculate the individual's carbon footprint in metric tons of CO₂ and display how much the individual should pay for his/her carbon emissions. We aim to increase the accuracy and complexity of calculations in the future by gathering more data on individuals by collaborating with various companies.

Our Vision

We are aware that as we initialize our token and Carbon Pay extension, most of the households and companies still won't be paying for their carbon emissions since it is accepted as free to emit greenhouse gases in most countries in the world.

However, in a world equipped and managed by decentralized and autonomous technologies, people are the ones that should be responsible for themselves and their environment.

How can we make people pay for their carbon fees which they have not been charged for a long time? The answer to the question lies within the term called Network Effect. With the efficient use of marketing using Environmental NGOs (Non-Governmental Organizations) such as Greenpeace, Global Footprint Network, Earth Justice etc., we believe that we can be recognized in the media as the beginning of a worldwide revolution of humanity to save the earth from irreversible effects of climate change. Therefore, marketing and activism are a considerable part of our Zero Carbon Ecosystem.

As more and more people use Carbon Pay and ZCARB tokens to pay for their carbon emission fees, we are confident that every person will begin to feel responsible for paying for their carbon fees and disincentivized to emit more while watching the world's carbon budget running out via our total supply statistics.

As the number of people who uses our services and takes responsibility for the damage that they are causing to their environment by emitting greenhouse gases, companies from all around the world will begin to support us by making Carbon Pay systems mandatory for their services and pay for their carbon emission fees too.

Moreover, to initiate the spread of this environmental responsibility challenge, we aim to collaborate with various companies such as airlines, natural gas companies, car companies etc., to make using Carbon Pay mandatory for their customers so that they would have to pay the price for their carbon emissions.

20% of the total supply of ZCARB tokens will also be added to the total supply at a slow pace not to cause the devaluation of the token. Using crypto exchange marketplaces, this will be realized by selling ZCARB tokens for their market value. 75% of the earnings from these sales will be used to subsidize Zero-Carbon emission technologies and support eco-friendly companies financially. The rest, 25 % of the

earnings, will be used to increase the quality of our web services, provide security of our platform, afford salaries of our employees, and increase marketing expenses to incentivize people to be part of this decentralized environmental revolution. We will always aim to make our services available, accessible, and useful for more people worldwide.

Conclusion

Short-lived climate pollutants, including black carbon, methane, hydrofluorocarbons, and tropospheric ozone - are powerful climate forcers with global warming potentials many times that of carbon dioxide.

These pollutants also significantly impact air quality, food, water and economic security for much of the world, directly through their adverse effects on public health, agriculture and ecosystems, and indirectly through their impact on the climate.

The measures and technologies to reduce short-lived climate pollutants are available today and are practical, technically feasible, and cost-effective. Putting them in place can bring immediate climate benefits, help achieve many global sustainable development goals (SDGs), and improve the health and livelihoods of millions.

We must act now.

Delayed efforts to mitigate carbon dioxide or short-lived climate pollutant emissions will have negative and potentially irreversible consequences for global warming, rising sea levels, food security, and public health.

For this reason, as the Zero Carbon Ecosystem founders, we want to be the initiators of this environmental revolution by using a non-traditional decentralized approach.

“We are in danger of destroying ourselves by our greed and stupidity. We cannot remain looking inwards at ourselves on a small and increasingly polluted and overcrowded planet.” - Stephen Hawking.

With Zero Carbon Ecosystem, we aim to create a decentralized revolution for environmental change. Be part of it before it is too late.