**ZERO CARBON ECOSYSTEM**

**Whitepaper**

**Introduction**

Carbon token ($ZCARB) was an answer to a simple question.

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

While none of us have 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 problems of humanity.

In a world ruled by the commodification of time, community-based projects that uses power of decentralization are more than just 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 make 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 a formulaic success and building a path to a 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.

**Why Decentralization?**

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 information of the world available at the click of a button, it's time to rethink.

Considering the problem from environmental perspective, over the course of the last year, the number of offshore oil rigs in the US has doubled, and 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 a powerful 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 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.”*](https://www.pressenza.com/2019/03/fridays-for-future-25000-demonstrate-in-berlin-with-greta-thunberg/) *-Greta Thunberg*

Currently, the world is set to exceed and even double the [1.5 degrees temperature threshold](https://www.irishtimes.com/news/environment/world-may-hit-1-5-degrees-temperature-threshold-in-next-five-years-wmo-warns-1.4577074)[[1]](#footnote-1) in this lifetime. At this rate, even a 99% commitment to tackling climate change is not enough, and the history already taught us that centralized systems incentivized by capitalist ambitions will not help us. Therefore, we believe that solution lies in the decentralization. As the founders of Zero Carbon Ecosystem, we are here to change the status quo, and drive the humanity towards progress in reducing carbon emissions.

**Why MATIC Network?**

When looking at all the other blockchains you might wonder why ($ZCARB Token) is on the Matic network. The reason, like our project is eco-friendly, efficiency and scalability.

We embarked on the mission for Carbon Coin using Matic as it is already a very well known, secure and well-established project. Using this blockchain fully allows this project to be fully decentralized.

With Matic using Proof of Stake (PoS) it has allows the blockchain to use minimal energy and be eco-friendly. While also having very low transaction fees.

As Matic grows everyday being used by more Dapps (Decentralised apps) and DEXs (Decentralised exchanges) it is on the rise as one of the most used blockchains. It is at the start of this journey however Matic with its premise is growing in popularity and will be widely used throughout the crypto world. Allowing Carbon Token to be widely used everywhere and by everyone.

With all these innovations it will be a great foundation for further improvements to this project. As it allows it to be scalable and flexible as the state and purpose of this coin changes slowly over time.

The top priority of this project is the environment and to ensure less carbon emissions and Matic was the logical choice for this.

**How $ZCARB Token Can Prevent Climate Change?**

The **AR6 WG1 report[[2]](#footnote-2)** was released by the Intergovernmental Panel 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 the start of 2020.

According to calculations, this carbon budget will run out in 9 years if countries continue to emit greenhouse gases in 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 world’s carbon budget.

Apart from gaining its value from the market demand, we are aiming to use this token to incentivize people to pay 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 disincentivize to spend the world’s carbon budget unnecessarily, 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 inform people how much their carbon emission spending worth in ZCARB token, incentivizing them to pay for their consumption of world’s carbon budget.

**How Carbon Pay Will Work?**

Created as a Chrome Extension, Carbon Pay will make payment of carbon emission fees easier, accessible, and scalable for people. Through the extension, people will be able to buy ZCARB token created in MATIC network, calculating their individual carbon emissions and learning 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, which is called “burning” in the crypto ecosystem.

Carbon Pay system will make our ZCARB token deflationary over time by decreasing the overall supply after each payment and increasing the value of ZCARB token corresponding to US dollars, and disincentivize household and companies to emit more greenhouse gases as carbon budget of the world decreases over time.

1. https://www.irishtimes.com/news/environment/world-may-hit-1-5-degrees-temperature-threshold-in-next-five-years-wmo-warns-1.4577074 [↑](#footnote-ref-1)
2. [**https://www.ipcc.ch/report/ar6/wg1/**](https://www.ipcc.ch/report/ar6/wg1/) [↑](#footnote-ref-2)