

Takyon (TY) Whitepaper

“Provide populations opportunities to experience blockchain in ways conducive to understanding the what, why and how of smart contract technology as well as to afford¹ Earth climate positivity.”

Version 2.1

By AI Energy Solution Corp Executives

¹ Afford: Synonym for “render” – cause to be or become; make

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The Primary Problem

According to [Climate.gov](https://www.epa.gov/climatechange), the global average atmospheric carbon dioxide (CO₂), a greenhouse gas (GHG) that absorbs and radiates heat, was 412.5 parts per million (ppm) in 2020. This set a new record high amount despite the economic slowdown from the COVID-19 pandemic. Anthropogenic emissions then increased concentration of CO₂ in our Earth's atmosphere. These amplified Earth's natural greenhouse effect - - a process that occurs when energy from the sun penetrates Earth's atmosphere and warms its surface. Earth's atmosphere then prevents the excess heat from exhausting back to Space, resulting in global warming.

Warmed by sunlight, Earth's land and ocean surfaces continuously radiate thermal infrared energy (heat). Unlike oxygen or nitrogen, GHG emissions absorb that heat and release it gradually over time. Without this natural greenhouse effect, Earth's average annual temperature would be below freezing instead of close to 60°F. Increases in GHG emissions have unfortunately tipped Earth's energy budget out of balance, trapping additional heat, increasing Earth's average temperature. This is causing terrible harm to our planet's most vulnerable environments including coral reefs, tropics, and arctic regions as well as increasing instances and severity of natural disasters, affecting humans globally.

Many paradoxes hide in plain sight daily and current markets are filled with subjective consideration as primary driving forces for value.

An Effective Contributing Solution

A practical implementation consisting of multiple components and stages with keen focus on simplicity to lead the next era of de-centrally hosted application (dApp) innovation.

Electric vehicle charging infrastructure companies such as ElectrifyAmerica, ChargePoint, Tesla, Plug Power and Terravis Energy, to name a few, specialize in grid-connected and grid-independent electric vehicle charging solutions to address a major cause of the aforementioned problem.

One of the most effective ways to address global warming would be configuring these tangible systems with a practical incentive sub-currency² mechanism that can seamlessly weave into populations' lifestyles for ultimate adaptation. The evolution of blockchain since 2017 has presented smart contract technology and introduced the notion of Web3. These progressions have resulted in logical technologies that can securely and efficiently facilitate fundamental capitalist utility to help achieve the globally desired reality.

² Unique on-blockchain token system that provides invaluable benefits to clean energy-based environments and mitigates risk of unnecessary over-development

Overview

Electric vehicle (EV) drivers can have opportunities to experience Polygon smart contract technology through incredibly streamlined mobile app experiences while actively reducing GHG emissions. With a decentralized, scalable financial framework that can host sub-currencies, the particular dApp in focus can incentivize and track the utility of an enterprise's grid-connected and grid-independent charging stations. Exclusive programs can be designed for EV drivers, offering competitive price-per-kilowatt-hour charging rates and various ways to subscribe when network participants pay with Takyon to recharge.

User-centric permissions, specialized mapping structures, and forensic security considerations from enhanced Ethereum improvement protocols in Takyon's dApps will allow varieties of exclusive MATIC-less payment options EV drivers can select to weave into daily routines. Financial blockchain engineering would afford an implementation secure balance-recycling mechanisms and account for global kilowatt-hour charging rates, bringing real measurable energy savings; an expectation that would come to be and likely attract increasing numbers of network participants. Such an implementation is practically possible for EV charging utility only with the particular protocols implemented in its build and hosted on the environmentally conscious, green-pledged, Ethereum Virtual Machine-compatible blockchain, Polygon.

Takyon would then be a financial instrument that is similar in nature to hard money, an asset backed by globally accepted, tangible, physical value. And considering how Takyon's max supply is finite, when an amount of Takyon in relation to its market price and the cost of clean energy is used by network participants as payment for each EV recharge, such utilization would lead to additional expectation by EV drivers of increased purchasing power.

As well, adopting Takyon could very well open an adopting enterprise's business to a plethora of domestic and international customers, mitigate risks of falling victim to financial system security breaches, and aid in extraordinary customer satisfaction from Polygon blockchain advantages including, but not limited to, orders-of-magnitude reductions in cost of each transaction compared to transaction costs charged by the Ethereum blockchain or those charged by credit card companies.

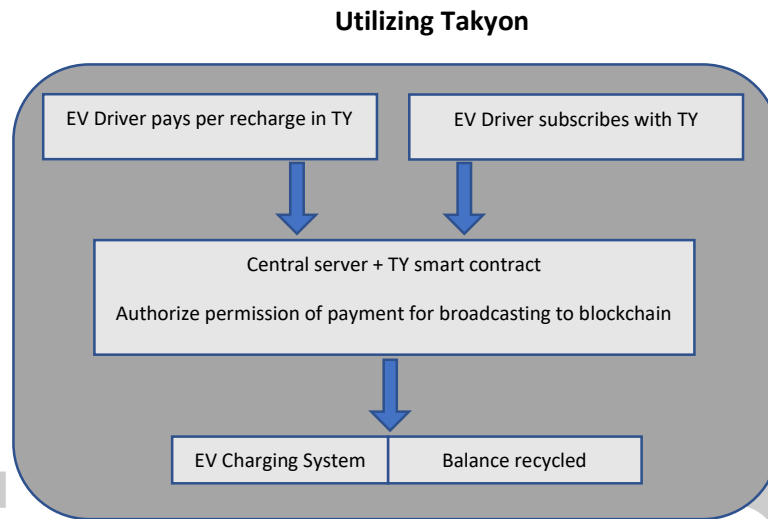
MATIC-less Transactions

By way of permit extensions, electric vehicle drivers could subscribe exclusively to an adopting enterprise's EV charging network through an engaging mobile app experience, authorizing any inclusive charging station to send Takyon from their registered address to the adopting enterprise's address when EV charging payments are necessary.

Kilowatt-hour charge cost

Through financial blockchain engineering, a subsystem could be architected where the framework would account for increases in discrete electric vehicle drivers who pay in Takyon and decrease participants' cost per kilowatt-hour that it charges accordingly.

Flowchart



Legend

Terms	Definitions
TY smart contract	Blockchain-based, decentralized application serving as environment arbiter
Central server	Adopting enterprise's centralized server
TY	Takyon ticker symbol
Balance recycled	Cryptographic account address holding TY from EV charging payments

Tokenomics (Token economics)

Max supply: 777,000,000 TY

Total Supply: 777,000,000 TY

Circulating Supply: 277,000,000 TY (35.6% Max Supply)

Token Distribution:

Takyon [was distributed](#) to sponsors and key stakeholders, as well as holders of another environmentally conscious cryptocurrency-based project, and is continually supported with trading markets on numerous cryptocurrency exchanges globally to help drive the reduction of GHG emissions as well as fund research for furthering hydrogen fuel cell science.

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