eCeltron

Contents

1. Overview

If you look at the Korean automobile industry alone, the demand for clean energy is already surpassing that of internal combustion engine vehicles that use polluting fossil fuels, with the shipment rate of electric vehicles reaching 30% as of June 2022.

With the global trend of using eco-friendly energy and growing environmental awareness, it is even predicted that all combustion engine car manufacturers that do not have an electric vehicle lineup in the finished car manufacturing market will go bankrupt within the next three years.

General electric vehicle market has been dominated by Tesla, but now Hyundai Motors and Kia Motors are also posing a great competitiveness. Meanwhile, Lucid is solidifying its market position in the luxury electric vehicle market.

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FORTUNE
BUSINESS INSIGHTS

Electric Vehicle Market Size Worth USD 1,318.22 Billion, Globally, by 2028 at 24.3% CAGR: Fortune Business Insights™

Electric Vehicle companies mentioned in report are BMW Group, BYD Company Ltd, Daimler AG, Ford Motor Company, General Motors Company, Nissan Motor Corporation, Tesla, Toyota Motor Corporation, Volkswagen AG, Groupe Renault.

In addition, as high-capacity batteries for electric vehicles, which were used only in the finished vehicle field, are beginning to be used in finished equipment in various fields such as trucks, industrial machines, light aircraft, and motorcycles, the demand for environmentally friendly, high-capacity batteries is exponentially increasing. However, Manufacturing technology and supply are not up to par on the market.

As a result, the imbalance between supply and demand is already expected in the short to medium term, and on top of that, the recent global supply chain problem further exacerbates the problem. As of now, it is predicted that the demand for batteries will continue to be 1.5 to 2 times higher than the available supply.

Source: Globenewswire
https://www.globenewswire.com/news-release/2022/07/27/2486587/0/en/Electric-Vehicle-Market-Size-Worth-USD-1-318-22-Billion-Globally-by-2028-at-24-3-CAGR-Fortune-Business-Insights.html

2. eCeltron's Misson

eCeltron is a compound word of E (electric: electricity) + Cel (Cell: battery) + Tron (the ending of electronic: electricity), which means the battery of an electric vehicle. It also means the efficiency of a light-weight and fast blockchain like Tron coin.

In other words, it means an electric vehicle battery that is fast, light, and highly efficient like the Tron coin.

Hyundai, Kia, Lucid, Tesla, and Benz are among the domestic and foreign car companies that have already established their own leading leagues and are fiercely competing. Therefore, under the judgment of the management, it is absolutely not advantageous to join the competition with them in the finished electric vehicle manufacturing market. Rather than focus on finished vehicles, we chose to establish an unmatched competitive position in manufacturing and materializing commercial batteries for electric vehicles.

By introducing blockchain into the manufacturing and materials business of electric vehicle batteries, we will be able to achieve unprecedented high business efficiency and competitiveness. In addition, listing our coins on global exchanges will also ensure high liquidity.

In spite of the fact that the electric vehicle market is growing, supply and demand instability is occurring, but at the same time, technology is advancing rapidly. Therefore, if a company with reliable materials and price competitiveness is preempted and operated through block chain, production and operating costs can be extremely reduced. there is.

As a result of innovation, we will secure unparalleled competitiveness in this rapidly changing market for at least 7 to 8 years into the future.

3. eCeltron's Blockchain

The ERC20 protocol has been proven to be safe, cost-effective, and transparent through hundreds of millions of transactions.That's why we chose ERC20 protocol for eCeltron platform.

By assigning an ERC20 address to all production processes such as raw material supplier, material developer, manufacturing line, QA, production management, inventory management, marketing, shipping, customer order, we plan to manage the production process, inventory status, and new material release status in real time, immutably and transparently.

Constant

N_i: the set of (locally ordered) neighboring processes of P_i.

Input from Algorithm CDS

F_i: the id of the father of P_i in the tree.

L_i: the distance from the root process P_r.

Shared variable with algorithm CDS

$Req_i \in \{\text{ASK}, \text{WAIT}, \text{REP}, \text{OUT}\}$:

If P_i requests a permission to its root of the tree, $Req_i = \text{ASK}$.

If P_i waits (resp. receives) an acknowledgement, $Req_i = \text{WAIT}$ (resp. REP).

Before P_i requests a permission or after every neighbors of P_i joins the BFS tree rooted at P_r, $Req_i = \text{OUT}$.

Variables

$Q_i \in \{R, W, A\}$:

If P_i transmits a request to the root tree, $Q_i = R$.

If P_i waits for an acknowledgement from the tree for the transmitted request, $Q_i = W$.

If P_i has received an acknowledgement from the root, $Q_i = A$.

$HQ_i \in \mathbb{N}$: the value of L_j of the process P_j which has sent the request.

Macros

$Child_i \equiv \{P_j \in N_i \mid F_j = P_i \wedge L_j = L_i + 1\}$

$RC_i \equiv \{P_j \in Child_i \mid Q_j \in \{R, W\}\}$

$PrioRC_i \equiv \{P_j \in RC_i \mid \forall P_k \in RC_i[HQ_j \leq HQ_k]\}$

$Ch_i \equiv \min\{P_j \in PrioRC_i\}$

Predicates

$Transmit_i \equiv Q_i = A \wedge \forall P_j \in Child_i[Q_j = W \Rightarrow HQ_j \neq HQ_i]$

$Retransmit_i \equiv Q_i = W \wedge \exists P_j \in Child_i[Q_j = R \wedge HQ_j = HQ_i]$

$Error_i \equiv Q_i \neq A \wedge \{(Req_i \notin \{\text{ASK}, \text{WAIT}\} \wedge HQ_i = L_i) \vee$
$\quad (HQ_i \neq L_i \wedge (Req_i \neq \text{REP} \Rightarrow \forall P_j \in Child_i[HQ_j = HQ_i \Rightarrow Q_j = A]))\}$

$Request_i \equiv Req_i = \text{ASK} \wedge (|PrioRC_i| > 0 \Rightarrow L_i \leq HQ_{Ch_i})$

$ForwardReq_i \equiv Req_i \neq \text{REP} \wedge |PrioRC_i| > 0 \wedge$
$\quad ((HQ_{Ch_i} \geq HQ_i \Rightarrow Transmit_i) \vee Retransmit_i)$

$Wait_i \equiv (P_i = P_r \wedge Q_i = R \wedge \forall P_j \in Child_i[HQ_j = HQ_i \Rightarrow Q_j = W]) \vee$
$\quad (P_i \neq P_r \wedge Q_{F_i} = R \wedge Q_i = R \wedge HQ_{F_i} = HQ_i \wedge$
$\quad\quad \forall P_j \in Child_i[HQ_j = HQ_i \Rightarrow Q_j = W])$

$Answer_i \equiv (P_i = P_r \wedge Q_i = W) \vee (P_i \neq P_r \wedge Q_{F_i} = A \wedge Q_i = W \wedge HQ_{F_i} = HQ_i)$

Actions for P_i:

1 :: $Error_i \rightarrow Q_i := A$; $HQ_i := L_i$;

2 :: $Request_i \rightarrow Q_i := R$; $HQ_i := L_i$; $Req_i = \text{WAIT}$;

3 :: $ForwardReq_i \rightarrow Q_i := R$; $HQ_i := HQ_{Ch_i}$;
$\quad\quad\quad\quad$ if $HQ_i < L_i \wedge Req_i = \text{WAIT}$ then $Req_i := \text{ASK}$;

4 :: $Wait_i \rightarrow Q_i := W$;

5 :: $Answer_i \rightarrow Q_i := A$; if $Req_i = \text{WAIT}$ then $Req_i := \text{REP}$;

# 4. eCeltron's Blockchain Technology & New Material Engineering

Materials and manufacturing methods that are key to the manufacture of electric vehicle batteries.

It is true that the conventional lithium-ion method or the hydrogen-compressed battery method is widely used because there are many application cases according to actual commercialization. Its performance is not yet high in terms of battery life, cost, charging time, safety, and energy production rate.

Further, 40,000 liters of water are required to extinguish a fire caused by an electric vehicle battery, raising concerns about safety.

(Source Safetynews: https://www.safetynews.co.kr/news/articleView.html?idxno=213285)

Therefore, eCeltron adopted all the advantages of the existing LMO, NCA, and NMC methods and significantly improved the disadvantages to introduce the eCeltron method, which has the best performance among the existing batteries in terms of battery life, cost, charging time, safety, and energy production rate. This will increase manufacturing and market competitiveness.
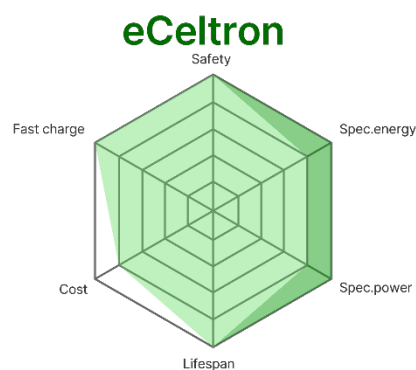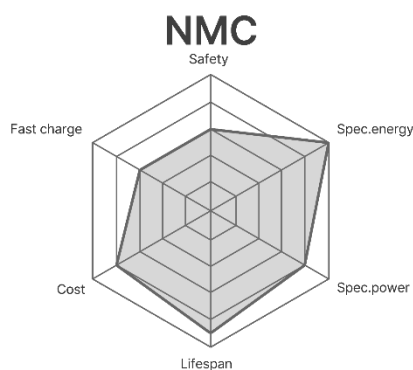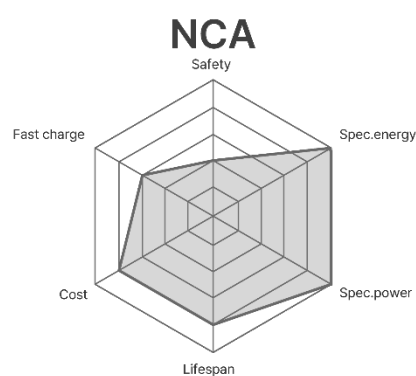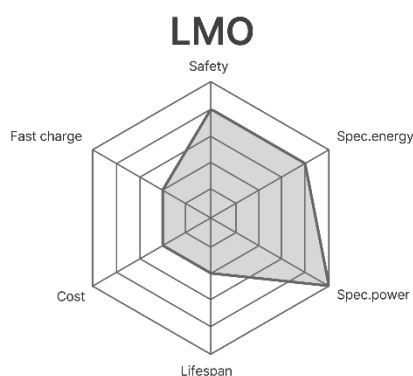
Patented Tech. ETC#9940-1

5. eCeltron Token Ecosystem

5-1. Electric battery raw material company

Securing excellent new materials determines the success or failure of a business.

All new material developers and individuals are required to register in advance in eCeltron's ERP system, exchange research results, estimates and detailed specifications with eCeltron, select the best material after actual testing, and proceed with commercialization afterward.

Information providers will be rewarded with USD and an additional 10% ECTR coin.

5-2. Electric battery research and development company

These companies are companies that conduct R&D (Research & Development) necessary for actual battery production based on the selected new battery materials. All R&D processes are separated on the eCeltron blockchain and shared through eCeltron employees and outsourced evaluation companies with different security levels. When the best basic prototype (sample for prototyping) is selected, the supply price of the prototype will be compensated in USD and an additional 10% ECTR coin.
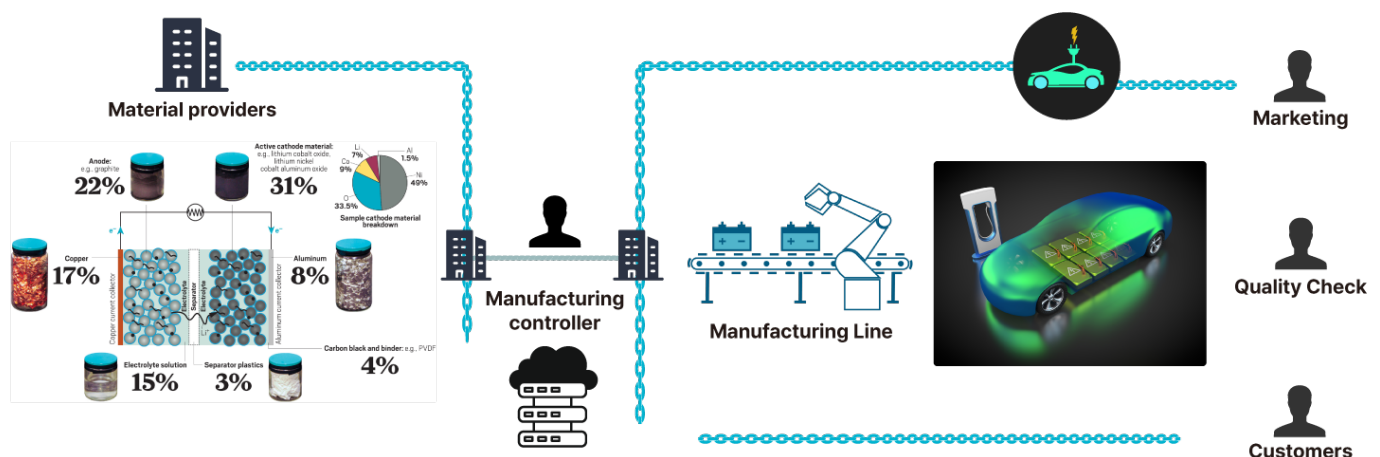
5-3. Electric battery manufacturer

The selected prototype (sample for prototyping) is put into the actual production line and manufactured.

The automatic conveyor belt-type line is pre-adjusted to the production method of new materials, and after final confirmation, the research results and processes are stored through the double security method of the block chain to prevent information leakage.

The price of the delivered battery will be compensated in USD and an additional 5% ECTR coin.

5-4. Electric Batteries and Coin Purchasing Individuals

The finished battery product is delivered to the existing car manufacturer at a transparently determined unit price and delivery conditions through the inspection and marketing process.

Whenever a finished vehicle manufactured and delivered under the eCeltron brand is charged, the eCeltron platform mobile wallet holder will receive ECTR coins free of charge at a certain rate according to the amount charged.

6. eCeltron

Business Activation Support for Users

Aside from securing liquidity through listing on global exchanges at the start of the business, the business provides additional incentives to investors for each purchase quantity section to secure R&D and manufacturing funds.

| Purchase amount	Business Activation Support
1~10,000	10%
10,000~40,000	20%

7. eCeltron Platform Wallet

The main function of the eCeltron Wallet is to safely store and transfer various digital assets.

Besides, holders of eCeltron wallets will receive ECTR coins based on the amount they charge an electric vehicle manufactured with eCeltron's own patented technology. In addition, the number of manufacturing, research, production, and inspection companies currently participating in the eCeltron manufacturing platform will be displayed in real time, allowing you to know the growth status of the platform. Furthermore, various electric vehicle management options will be added, such as the charging rate of the vehicle being charged by linking the charging software.
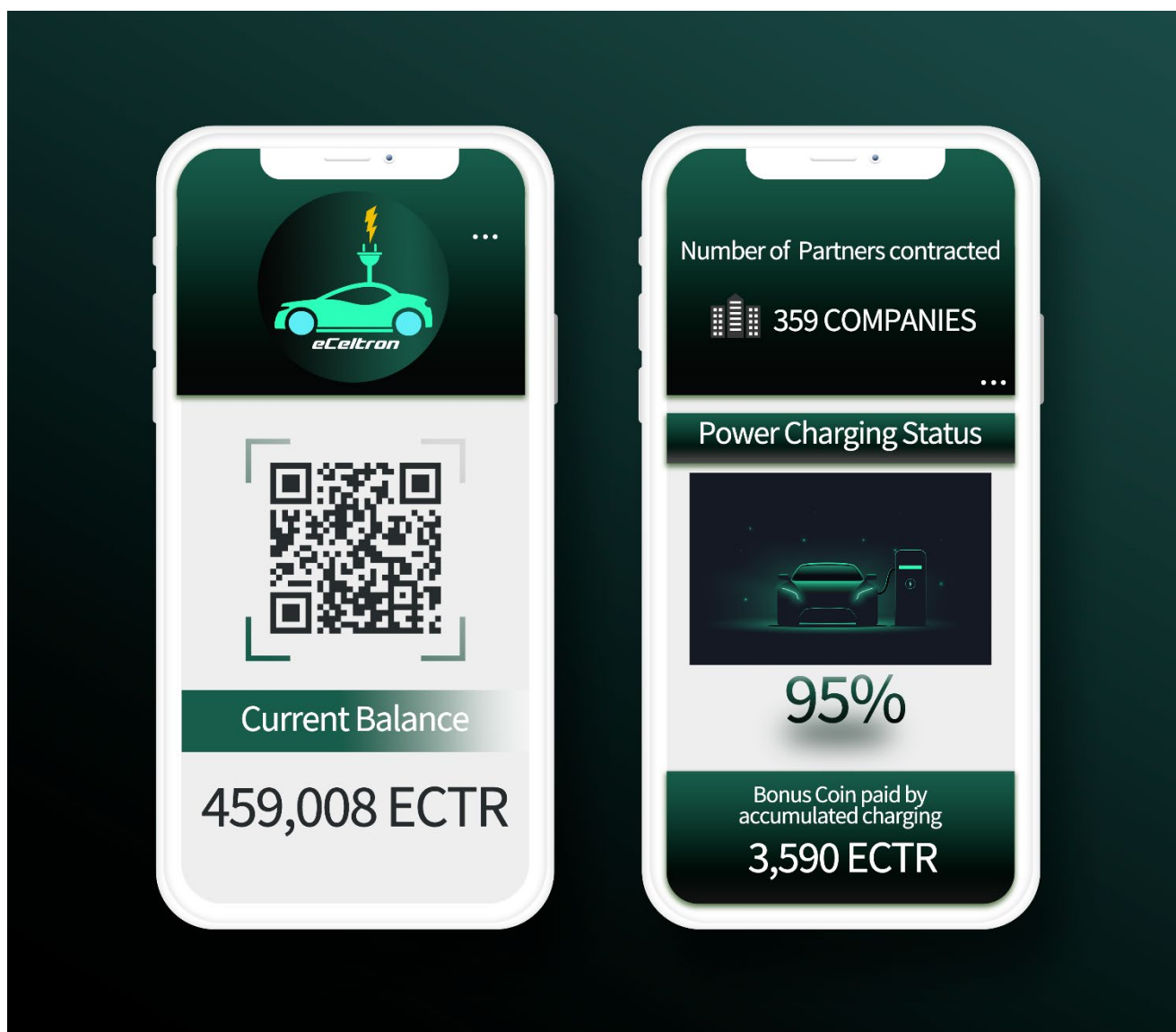
8. Token Distribution Plan

The project involves a variety of companies from around the world.

A battery's materials are key to its success or failure, so we are allocating 30% of our funds to this area.

A further 20% of the budget was allocated for mergers and acquisitions on the manufacturing line as well as the development of new materials for the production line.

Furthermore, we will allocate 10% of our budget to corporate sales and mass marketing for automakers.

Total Supply		150,000,000
coin sales	20%	30,000,000
Development for Battery Material	20%	30,000,000
M&A of Battery material development and manufacturing lines	20%	30,000,000
Global marketing	10%	15,000,000
Legal Advisory	20%	30,000,000
Team	10%	15,000,000

Sum	100%	150,000,000
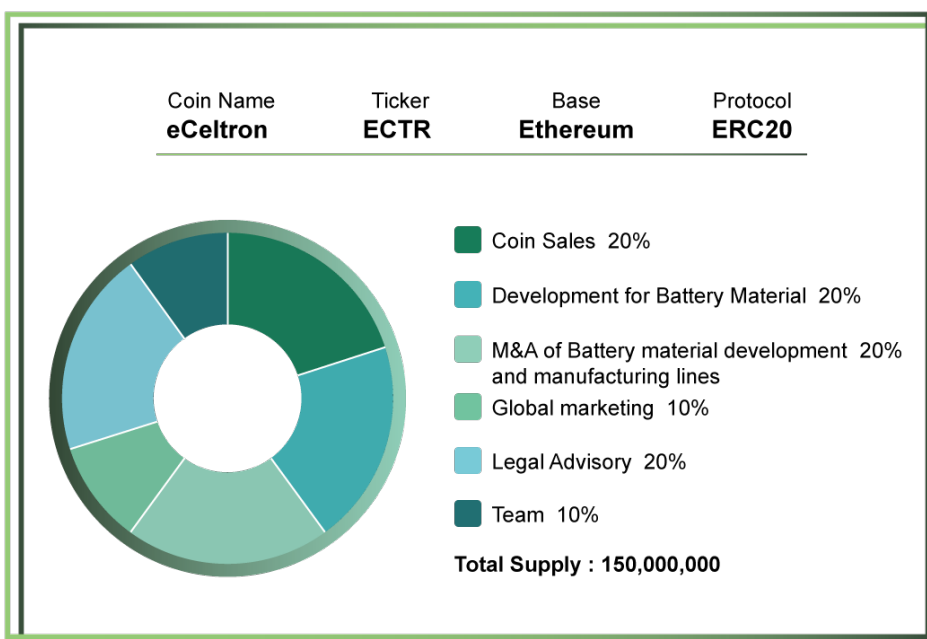
9. Roadmap

2021 Q3 eCeltron foundation set up

Q4 Whitepaper published

2023 Q1 Listing on more global exchanges in Asia or U.S.

Q2 eCeltron platform launching

Q3 Finished car manufacturer partnership completed

Q4 eCeltron platform enhancement

2022 Q1 eCeltron Platform & Wallet development started

Q2 Selecting material developing companies started

Q3 Listing on top global exchanges & Wallet launched

Q4 Battery manufacturing line in China due diligence

10. Disclaimer

1. This white paper is intended to describe eCeltron's services and may be reviewed and amended due to the project schedule, progress and other factors.

2. The version of this white paper is based on the date indicated at the top of the document, and the contents of this white paper reflect only the direction and progress of the project until that date, and are subject to change at any time after the date.

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13. Due to unintended reasons such as system attacks, natural disasters, and force majeure reasons from third parties, the creation of the ecosystem may be delayed, or other tangible or intangible losses may occur.

14. eCeltron is not responsible for the buyer's risk of losing or leaking the buyer's personal key.

15. It is not free from all risks, including coin depreciation and changes in the market environment, uncertainty, political risk, competition with competitors, which may disrupt the development of eCeltron or change service direction and plans.

16. eCeltron is a technology under development, and changes in technology that may occur during the development of the technology can negatively affect eCeltron.

17. eCeltron shall not delegate or transfer to any other person any decisions, including the operation policy and discontinuation of the ecosystem, and all decisions shall be made at the discretion of eCeltron.