



Katsuji Okamoto | Founder & CEO

Kaula Inc. is an IT company working to make the digital innovation, more efficient, and more affordable, using blockchain and related technologies. Thought research, fusion platform, decentralized applications and latest blockchain report, Kaula works to create and promote high industry solutions for smart battery blockchain adoption. (Establishment : January 2017)

Battery Residual Value Prediction System (BRVPS) to realize such traceability of batteries for EVs.

The BRVPS works closely with the battery management system (BMS) that are installed on lithium batteries, by retrieving information the BMS collects, which EV manufacturers and owners, resellers and recyclers in the secondary market, as well as businesses in the secondary and tertiary markets can record on a blockchain. Based on the recorded information, the residual value of the battery is predicted and graded. For primary, secondary, and tertiary users, the residual value of batteries is visualized based on highly transparent information, thereby facilitating the circulation of batteries. As a result, by creating a cascade of battery reuse (linkage and chain), it is possible to reduce the likelihood for generating waste batteries.

Strengthening the Life Cycle Management

It is possible to more accurately determine the value of second-hand rechargeable batteries by managing each individual battery's information on the blockchain. Each battery's value lies with how much energy storage capacity remains, which is affected by their own unique history of usage, such as rapid charging and discharging, the environmental temperature, etc., that causes physical changes that lower capacity. This information can be measured and recorded, and can be associated with each user, reseller, or recycler as it changes ownership. As trustworthiness of the battery quality can be enhanced for the user, end-of-life batteries can be sold at an appropriate resale price that is commensurate with the battery quality.

