

Charge.In : Total Digital Solutions for Indonesia's Expanding Electric Vehicle Infrastructure

The EV ecosystem in Indonesia is a dynamic collaboration of numerous actors who are striving to make electric vehicles a viable option for the nation. The actors include the government, private sector, EV Industries, battery producers, business actors and the community. As the largest energy provider in Indonesia, PLN takes the lead in accelerating the EV revolution by developing a comprehensive strategy to overcome the challenges faced by the EV ecosystem.

Some of the most pressing issues in EV ecosystem are; (1) Cost of electric vehicles, (2) Lack of charging infrastructure, (3) Driver's anxiety of vehicle may run out of power during the trip, and (4) Limited availability of electric vehicles models. Each challenge requires a different strategic approach to effectively provide solutions.

As for the charging infrastructure issue, PLN has developed a comprehensive strategy to cover all the requirements of different EV types, including 4-wheeled EV, 2-wheeled EV, and battery swaps.

Behind every EV Charging Station, there is a critical engine used to manage the transaction of the Charging Station, consolidate the energy transaction, and work in interoperability mode. This digital engine should be able to connect the EV driver with PLN seamlessly. From PLN's perspective, this whole system will secure PLN's revenue from the EV ecosystem.

Since 2020, PLN has started to develop Charge.In, a digital payment system for energy transactions. Launched in early 2021, Charge.In aims to simplify the payment process for EV owners, eliminating the need to carry cash or use different e-money for different charging machines. Now, with Charge.In EV drivers only need one application to do the transaction, enabling them to monitor the amount of energy they purchase and even set charging time at home. This complete digital solution tackles the issue of complicated process in EV charging, streamlining the charging experience for electric vehicle users.

To date, Charge.In becomes the only Digital System for energy transaction at both Charging Station and Home Charging. Charge.In manages all types of charging Station, which are 4-wheeled Charging Station, 2-wheeled Charging Station, Battery Swap Charging Station, and Home Charging.

This system is implemented in 474 4-wheeled Charging Stations, 1,639 2-wheeled Charging Stations, and 3,715 Home Chargers. It has been used 106K times by more than 850K EV Owners, with energy sold around 1,846 MWh, making CHARGE.IN the Number One choice for electric vehicle users to recharge their electric vehicles.

The existence of CHARGE.IN ensured customers experience hassle free services and revenue assurance for PLN. In the future, PLN, along with its Sub Holding, will integrate Charge.In with more payment channels, and single billing system with Electricity Billing to serve expanding numbers of EV vehicles in Indonesia.