



ESS OFF-GRID EV OASIS BSS

Mobility Energy Corporation presents a comprehensive energy and mobility platform leveraging advanced battery swap station technology, energy storage systems, and AI-powered integration solutions for sustainable transportation infrastructure.

Company Overview

Corporate Identity

Mobility Energy Corporation

177, Yeomjeon-ro, Michuhol-gu, Incheon, Republic of Korea

TEL: +82 32 872 8891

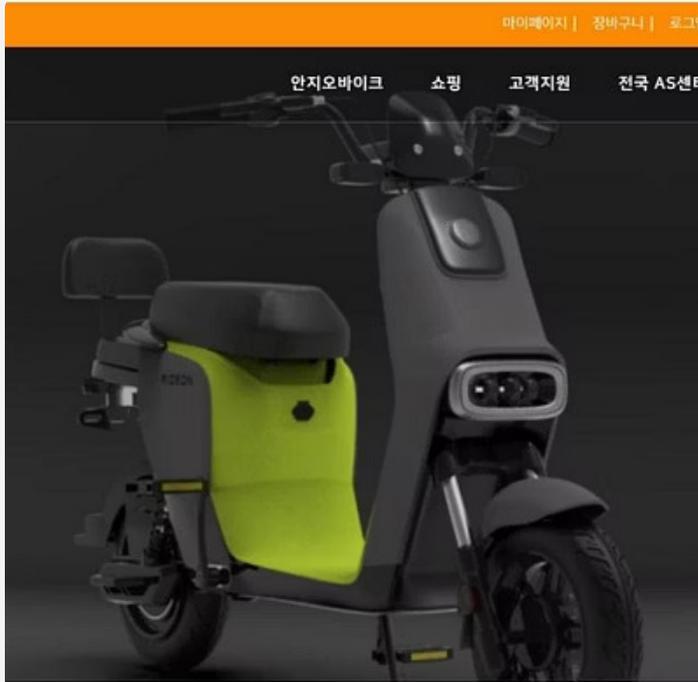
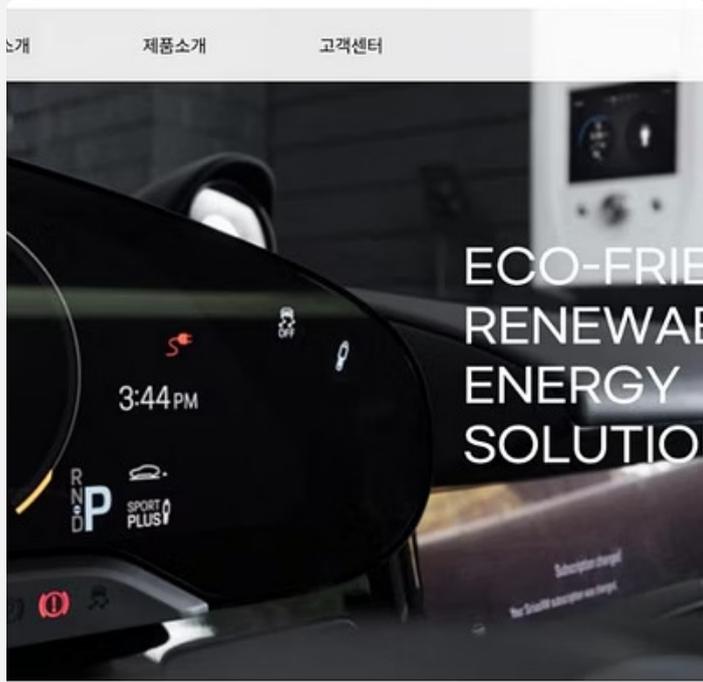
FAX: +82 32 858 8915

Web: www.evoasis.co.kr

LinkedIn: www.linkedin.com/in/evoasis



Digital Presence

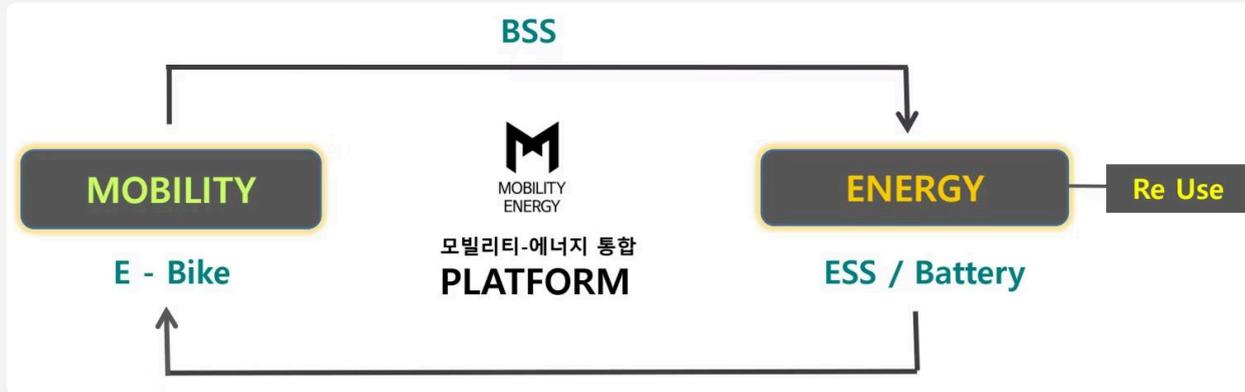


Our comprehensive digital ecosystem provides seamless access to technology solutions, product information, and customer support across multiple platforms.

Integrated Business Model

"Bridging mobility and energy sectors with advanced technology"

Our dual-pillar strategy positions us uniquely in the market. We're establishing Indonesia as our gateway to Asian markets for BSS operations while simultaneously targeting specialized ESS and battery markets with our differentiated technology.



Product Portfolio



BSS

Battery Swapping Station for rapid battery exchange and charging infrastructure



ESS

Energy Storage Systems for grid stabilization and renewable integration



Power Bank

Industrial auxiliary power devices for mobile energy solutions



Battery Pack

High-performance battery modules with explosion-proof technology



E-Bike

Anzico brand electric bicycles and motorcycles

Mobile ESS Innovation



Our mobile ESS technology brings power generation capabilities directly to locations without traditional grid infrastructure, enabling flexible deployment for diverse applications.



Core Technology Advantages

01

Explosion-Proof Coating

Proprietary fire prevention technology creating "non-exploding battery packs" through advanced ballistic and fire-suppressant materials

02

Battery ReUse Pioneer

Industry-first application of retired EV battery technology for secondary applications

03

Global Standard BSS

Integrated control solution achieving international standardization for battery swap stations

04

ESS Integration

Comprehensive energy storage integration solutions optimizing performance and safety

05

AI Fire Prevention

Predictive algorithms for fire detection and automatic prevention systems

Integrated Platform Vision

Energy & Mobility Convergence

We're building a unified platform that seamlessly integrates energy management with mobility services, creating new business models and revenue streams in the sustainable transportation ecosystem.



Strategic Business Expansion

Battery ReUse Business

Commercializing retired EV batteries for ESS applications, extending lifecycle and reducing environmental impact

BSS Subscription Services

Recurring revenue model through battery swap memberships and charging subscriptions

Power Resale Business

Trading stored energy during peak demand periods for arbitrage profits

RE100 Support

Enabling corporate renewable energy commitments through our infrastructure solutions



Active Business Operations



BSS Operations

Electric motorcycle battery swap stations with global standard integrated control platform currently operating in Indonesia



ESS Solutions

Small to medium-scale ESS, mobile ESS units, and battery generators utilizing cost-competitive retired batteries



Power Bank Products

High-output, lightweight, silent industrial power banks leveraging retired battery cost advantages



Battery Packs

Explosion-proof high-performance battery packs for electric motorcycles and other applications

Revolutionary Coating Technology

Media Recognition



Proprietary Technology

"Combining ballistic materials with fire-suppressant compounds through specialized coating application"

Our breakthrough technology addresses the most critical safety challenge in EVs and ESS: thermal runaway prevention.

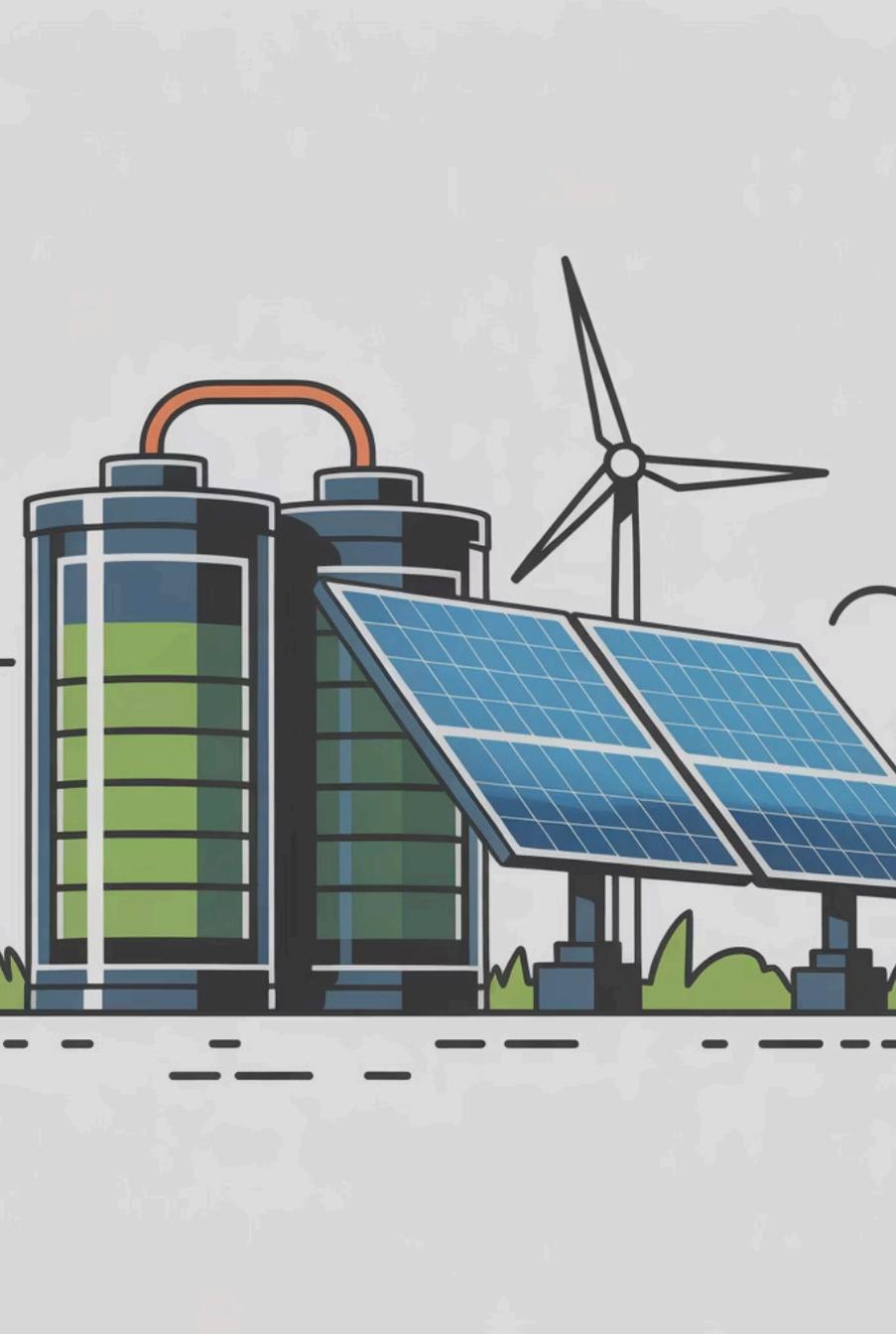
Overcharge Safety Testing



Proven Fire Prevention

Rigorous overcharge testing from 3.7V to 10V demonstrates zero fire incidents, validating our explosion-proof coating effectiveness.

"Complete solution to fire, thermal runaway, and thermal propagation - the biggest challenges facing EV batteries and ESS"



Industry-First Achievement

Global First

We've developed and commercially deployed the world's first explosion-proof battery packs for ESS applications, now operating in real-world conditions.

Lithium-Ion Battery Safety Comparison

Standard Battery



Result: Thermal runaway causes cell-to-cell propagation, resulting in explosion and flames



Our Explosion-Proof Treatment



Result: Smoke generation only, no flames, zero thermal propagation to adjacent cells

ESS Technology Excellence

Best-in-Class Integration

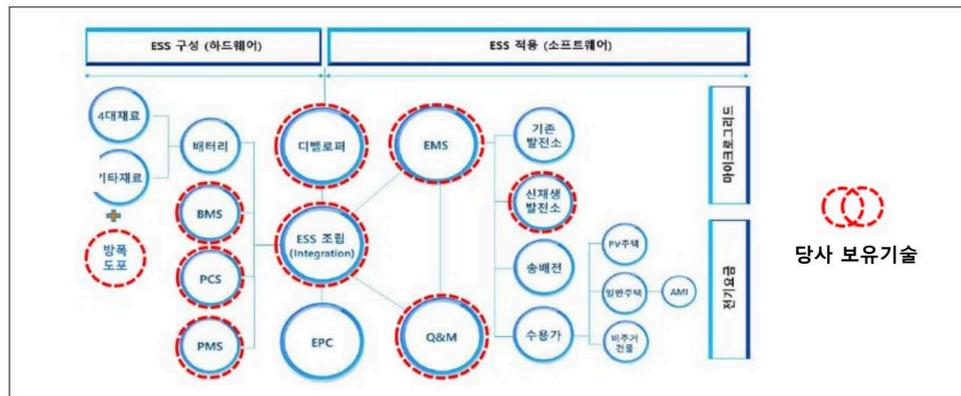
Superior ESS integration capabilities optimizing all system components

AI Fire Prevention

Predictive algorithms for early detection and automatic intervention

Zero Fire Risk

Explosion and fire-free ESS operations through proven coating technology





Understanding ESS

Essential Infrastructure for Energy Transition

1

Definition

Energy Storage System (ESS) stores energy and releases it when needed for reuse

2

Components

Battery / PCS (Power Conversion System) / BMS (Battery Management System) / EMS (Energy Management System)



OFF-GRID Power Generation Platform

Electricity Mining Concept

Transforming electricity from a simple consumable into a tradable asset through blockchain integration and AI-powered management systems.

Electricity as an Asset



Asset Transformation

Converting electricity from consumable commodity to investable asset class



Coin Reward System

Establishing token rewards based on power usage and contribution



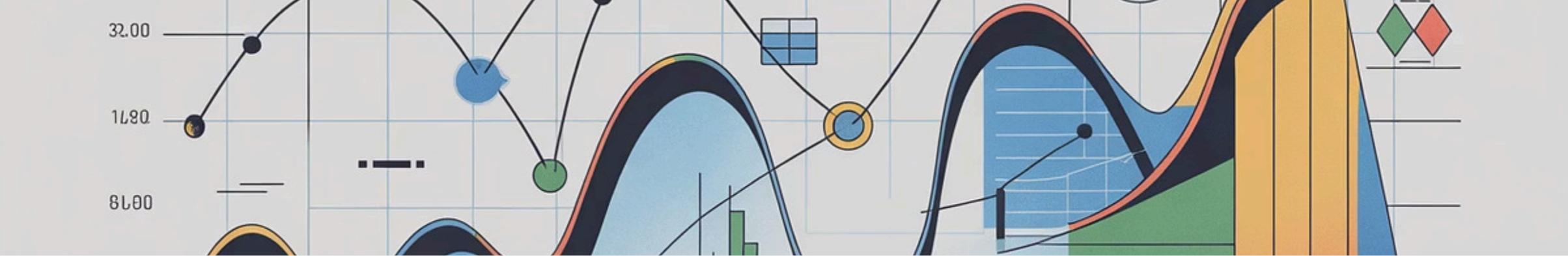
Sustainable Promotion

Incentivizing environmentally responsible energy usage patterns



Economic Value

Creating monetary value from power consumption activities



ESS-Based Arbitrage Trading

Off-Peak Charging

Storing low-cost nighttime electricity in ESS

1

Profit Generation

Capturing price differential for revenue

3

Peak Discharge

Releasing stored power during high-demand periods

2

Grid Stabilization

Contributing to network reliability

4

AI-Powered Energy Trading

01

Market Analysis

AI algorithms continuously analyze power market pricing dynamics

02

Automated Buying

Automatic purchase execution when electricity prices are low

03

Automated Selling

Automatic sale execution when electricity prices peak

04

24/7 Monitoring

Continuous real-time tracking and transaction management

05

Optimal Timing

Capturing perfect buy/sell moments through predictive analytics

EV-OASIS Platform Architecture

AI-Based ESS Integrated Operations - VATTON Blockchain Mainnet

Revolutionary OFF-GRID operation eliminates traditional power costs entirely. Solar PV generation feeds ESS storage, which powers both BSS battery swap stations and fast chargers (60-200 kW/h capacity).



Retail Store Integration



Comprehensive Services

- Electric motorcycle sales, rental, and charging subscriptions
- Café and snack shop operations during charging wait times
- Power station sales and rental information center
- Battery exchange and subscription services
- OFF-GRID business promotion and consulting

This model solves the critical problem of high-voltage 3-phase 380V power infrastructure requirements and installation costs for fast charging stations.

AI Operations System

Real-time Detection

- Battery status and performance monitoring
- ESS charge/discharge tracking
- Network load and traffic analysis
- Immediate anomaly detection

Automatic Configuration

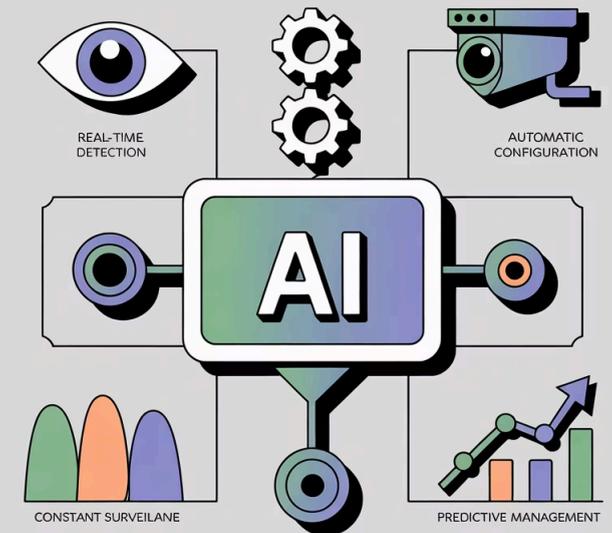
- Energy distribution optimization
- Node operation efficiency tuning
- Transaction processing speed adjustment
- System resource allocation balancing

Constant Surveillance

- Immediate anomaly detection
- Real-time security threat monitoring
- Automatic system error diagnosis
- Autonomous response minimizing downtime

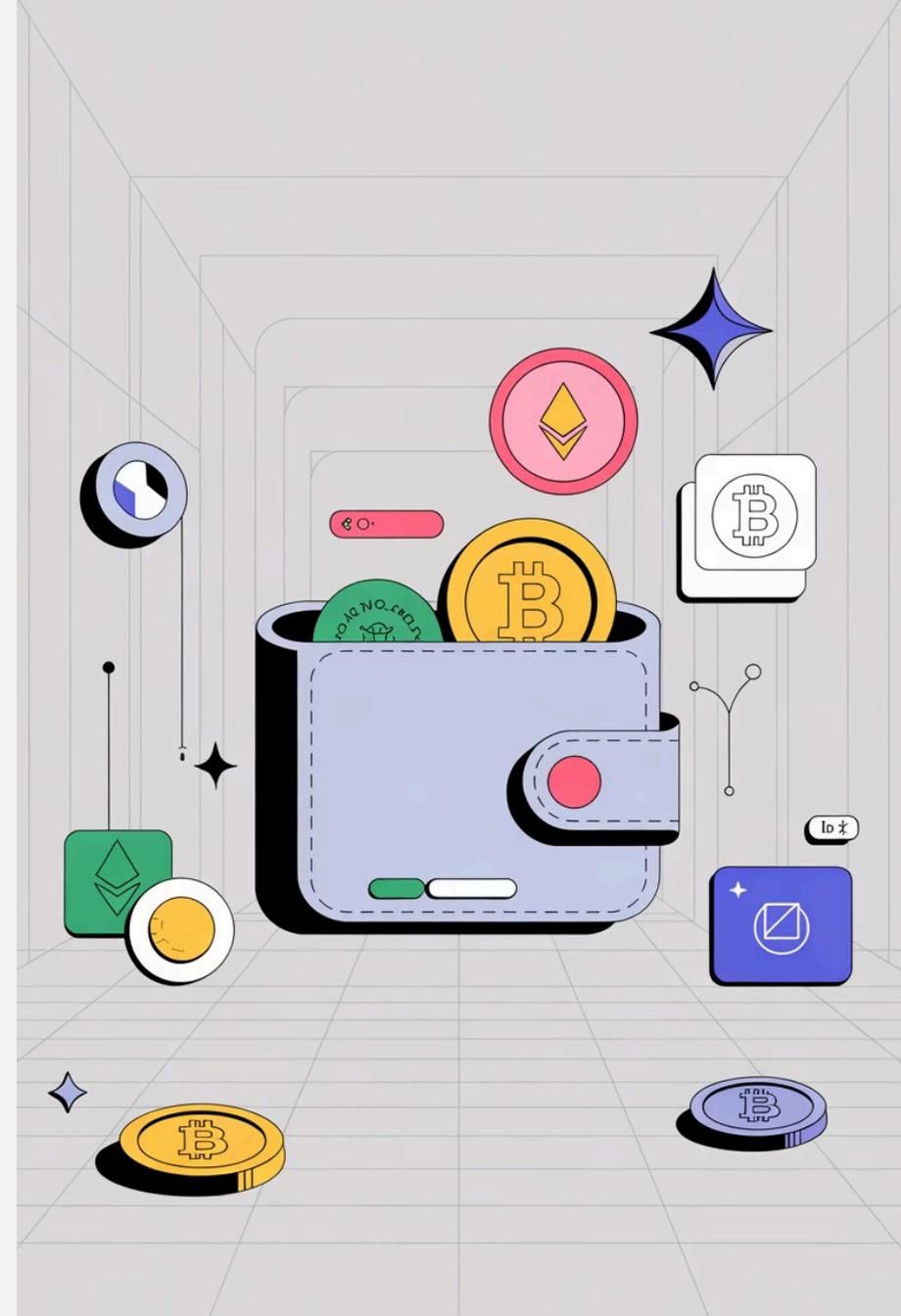
Predictive Management

- Battery swap demand forecasting
- Power usage pattern analysis
- Proactive transaction load handling
- Resource allocation optimization



VATTON Payment Ecosystem

Creating a comprehensive token economy where VATTON facilitates all transactions across our mobility and energy platform.



Battery Exchange & Charging

Discount Benefits

VATTON payments receive preferential rates compared to cash transactions

Automatic Burn

Percentage of each transaction automatically burned, reducing supply

Simplified Payment

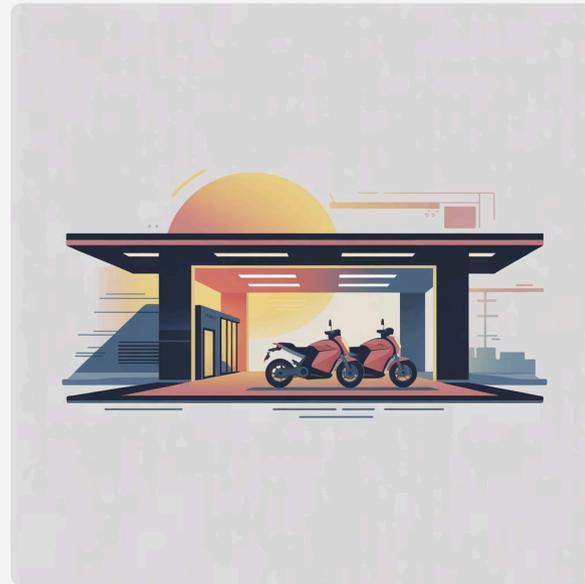
Streamlined payment system integrated at swap stations

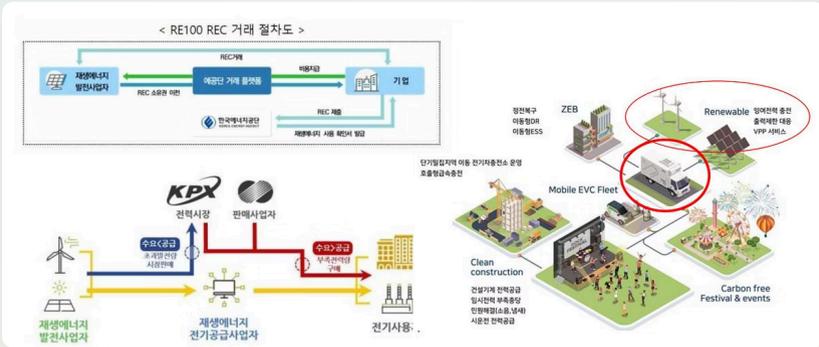


Vehicle Rental Services

Motorcycle & E-Bike Rental

- VATTON-based rental fee payments
- Integration with delivery service networks
- Flexible short-term and long-term options
- Seamless platform connectivity





OFF-GRID Platform Operations

Real-world deployment demonstrates the viability and scalability of our integrated energy and mobility platform across diverse geographical and operational contexts.

Battery Standardization Initiative

Korean Standard for Electric Two-Wheelers

South Korea has established national battery standards (KS) for electric motorcycles, addressing the critical issue of incompatible batteries across manufacturers. These standards cover voltage, size, weight, capacity, connectors, communication protocols, and safety requirements.



International Standard Development



"Korea's swappable battery standards will be proposed to the International Electrotechnical Commission (IEC) as international standards, strengthening global competitiveness in electric two-wheelers."

- Lee Sang-hoon, Commissioner, Korean Agency for Technology and Standards

Indonesia Market Validation



Successfully passed demonstration project testing for electric two-wheelers and BSS systems in Indonesia, validating our technology for mass deployment.

Korean Standard Specifications

Four-Part Standard Framework

1. **Part 1:** General requirements (voltage, size, weight, capacity)
2. **Part 2:** Charge/discharge connectors
3. **Part 3:** Communication protocols
4. **Part 4:** Safety and durability testing methods

These standards ensure interoperability between vehicles, swappable batteries, and charging stations across manufacturers.



Technical Standardization Details



Comprehensive technical specifications covering all aspects of battery compatibility, from physical dimensions to communication interfaces and safety requirements.

Indonesia Market Entry

Three Korean Companies Leading Standardized BSS

KR모터스

E-Lution →



이누리

OK1 KooRoo Pro →



대동모빌리티

GS100 Lite →



흥루시크

R1K →

New



Multiple Korean manufacturers have successfully entered the Indonesian market with standardized battery swap systems, establishing a foundation for regional expansion.



DNA Motors Partnership Strategic Distribution Agreement

Comprehensive MOU with DNA Motors (formerly Daelim Motorcycles) covering BSS solution acquisition and Indonesia distributorship rights for electric two-wheelers.

KOTRA E-Mobility Event

July 2025 Indonesia Showcase

Major presentation of Korean standardized battery technology alongside Indonesian local brands, demonstrating broad market acceptance and adoption potential.



Exhibition Highlights



Korean Companies: E3 Mobility, Daedong Mobility, KR Motor

Indonesian Brands: ALESSA, MIMO, GESITS (government-backed enterprise)

BSS System Demonstration



Live demonstrations of BSS infrastructure and standardized battery packs showcasing operational readiness and technical sophistication.