

ASEAN Two-Wheeled Electric Vehicle Battery Swap Industry Research Report 2026-2030

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Abstracts

Battery Swapping for Electric Two-Wheelers refers to an operational model for vehicle energy replenishment that involves the rapid exchange of depleted batteries—facilitated by standardized, swappable battery systems—at dedicated battery swapping stations.

Compared with traditional charging mode, battery swapping mode does not require waiting for the vehicle to charge for a long time. Users only need to replace the battery in the battery swapping cabinet or station to continue driving. The whole process usually only takes tens of seconds to several minutes, so it is particularly suitable for high-frequency use and high turnover of two-wheeled electric vehicles.

The battery-swapping market for two-wheeled electric vehicles in ASEAN is currently in a phase of rapid market entry and network expansion. According to CRI analysis, ASEAN is one of the regions with the highest number of motorcycles in the world. Indonesia, Vietnam, Thailand, and the Philippines have long relied on two-wheeled vehicles as their primary mode of transportation, thus naturally providing a large market base for electric two-wheeled vehicles.

Currently, the battery swapping market in ASEAN remains dominated by B2B operational scenarios, while the B2C private consumer market is still in its nascent stage.

According to an analysis by CRI, current demand for battery swapping for two-wheeled electric vehicles in ASEAN is primarily concentrated in urban delivery, shared mobility and high-frequency commuting scenarios. Indonesia and Vietnam are the markets within the region experiencing the fastest growth in demand.

Over the next 3 to 5 years, the battery swapping market for two-wheeled electric vehicles in ASEAN is projected to enter a phase of rapid growth.

CRI recommends that global battery swapping companies for two-wheeled electric vehicles, suppliers of electric vehicle batteries and investment institutions conduct timely market research on the ASEAN region to prepare for their strategic entry into the ASEAN two-wheeled electric vehicle battery swap market.

Key Contents

Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

Economic and Policy Environment of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

Analysis of the Two-Wheeled Electric Vehicle Battery Swap Industry in Major ASEAN Countries

Market Size of Two-Wheeled Electric Vehicle Battery Swap in ASEAN (2021–2025)

Analysis of Key Companies in the ASEAN Two-Wheeled Electric Vehicle Battery Swap Industry

Key Drivers and Market Opportunities of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

What are the key drivers, challenges and opportunities for the ASEAN two-wheeled electric vehicle battery swap industry during the forecast period of 2026–2030?

Which companies are the major market players in the ASEAN two-wheeled electric vehicle battery swap industry and what are their competitive advantages?

What is the projected revenue for two-wheeled electric vehicle battery swap market in ASEAN during the forecast period of 2026–2030?

What strategies have major market players adopted to increase their market

share within this industry?

Which segment of the ASEAN two-wheeled electric vehicle battery swap market is expected to dominate the market by 2030?

What are the major headwinds facing the ASEAN two-wheeled electric vehicle battery swap industry?

How can foreign capital enter the two-wheeled electric vehicle battery swap industry in ASEAN?

Contents

1 OVERVIEW OF ASEAN

- 1.1 Geography
- 1.2 Demographic Structure
- 1.3 Economic Situation
- 1.4 Minimum Wage Standards

2 OVERVIEW OF THE TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP INDUSTRY

- 2.1 Definition and Classification of the Two-Wheeled Electric Vehicle Battery Swap Industry
 - 2.1.1 Industry Definition
 - 2.1.2 Classification
- 2.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Industry Chain
- 2.3 Policy Environment of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN
- 2.4 CRI's Suggestions for Foreign-Invested Enterprises Investing in the ASEAN Two-Wheeled Electric Vehicle Battery Swap Industry

3 ANALYSIS OF SUPPLY AND DEMAND IN THE ASEAN TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP INDUSTRY

- 3.1 Supply Analysis of the Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN
 - 3.1.1 Status of Battery Swapping Stations/Pile Construction in ASEAN
 - 3.1.2 Number of Battery Swapping Stations for Two-Wheeled Electric Vehicles in ASEAN
 - 3.1.3 Factors Influencing the Construction of Charging Stations in ASEAN
- 3.2 Demand Analysis of the Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN
 - 3.2.1 Two-wheeled electric vehicle ownership
 - 3.2.2 Downstream user market demand
 - 3.2.3 Replacement Market Size of Gasoline-powered Motorcycles

4 IMPORT AND EXPORT OF THE TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP INDUSTRY IN ASEAN

4.1 Import Overview of Two-Wheeled Electric Vehicle Battery Swap Equipment in ASEAN

4.1.1 Import Volume of Two-Wheeled Electric Vehicle Battery Swap Equipment in ASEAN

4.1.2 Major Sources of Two-Wheeled Electric Vehicle Battery Swap Equipment Imports in ASEAN

4.2 Export Overview of Two-Wheeled Electric Vehicle Battery Swap Equipment in ASEAN

4.2.1 Export Volume of Two-Wheeled Electric Vehicle Battery Swap Equipment in ASEAN

4.2.2 Major Destinations for Two-Wheeled Electric Vehicle Battery Swap Equipment Exports in ASEAN

5 ANALYSIS OF THE TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP INDUSTRY IN MAJOR ASEAN COUNTRIES

5.1 Singapore

5.1.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.1.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

5.2 Malaysia

5.2.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.2.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

5.3 Thailand

5.3.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.3.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

5.4 Indonesia

5.4.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.4.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

5.5 Vietnam

5.5.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.5.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

5.5 Philippines

5.5.1 Overview of the Two-Wheeled Electric Vehicle Battery Swap Industry

5.5.2 Analysis of Two-Wheeled Electric Vehicle Battery Swap Market Supply and Demand

6 ANALYSIS OF THE TOP 5 TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP COMPANIES IN ASEAN

6.1 Gogoro

6.1.1 Company Overview

6.1.2 Operations Status

6.2 Oyika

6.2.1 Company Overview

6.2.2 Operations Status

6.3 Swap Energi

6.3.1 Company Overview

6.3.2 Operations Status

6.4 Selex Motors

6.4.1 Company Overview

6.4.2 Operations Status

6.5 VinFast

6.5.1 Company Overview

6.5.2 Operations Status

7 OUTLOOK OF TWO-WHEELED ELECTRIC VEHICLE BATTERY SWAP INDUSTRY IN ASEAN 2026-2030

7.1 Analysis of Development Factors of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

7.1.1 Drivers and Growth Opportunities of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

7.1.2 Threats and Challenges of Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

7.2 Forecast of Supply for Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

7.3 Forecast of Demand for Two-Wheeled Electric Vehicle Battery Swap in ASEAN

7.4 Forecast of Imports and Exports for Two-Wheeled Electric Vehicle Battery Swap Industry in ASEAN

List Of Charts

LIST OF CHARTS

Chart Total Population in ASEAN, 2021–2025

Chart Per Capita GDP in ASEAN, 2021–2025

Chart Policies Related to the Two-Wheeled Electric Vehicle Battery Swap Industry Issued in ASEAN, 2021–2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in ASEAN, 2021-2025

Chart Market Size of the Downstream Battery Swapping Sector for Two-Wheeled Electric Vehicles in ASEAN, 2021-2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in Singapore, 2021-2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in Malaysia, 2021–2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in Thailand, 2021–2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in Indonesia, 2021–2025

Chart Number of Installed Battery Swapping Stations for Two-Wheeled Electric Vehicles in Vietnam, 2021–2025

Chart Imports of Two-Wheeled Electric Vehicle Battery Swap Equipment in ASEAN, 2021–2025

Chart Exports of ASEAN's Two-Wheeled Electric Vehicle Battery Swap Equipment, 2021–2025

Chart Market Size Forecast of Two-Wheeled Electric Vehicle Battery Swap in ASEAN, 2026–2030

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