

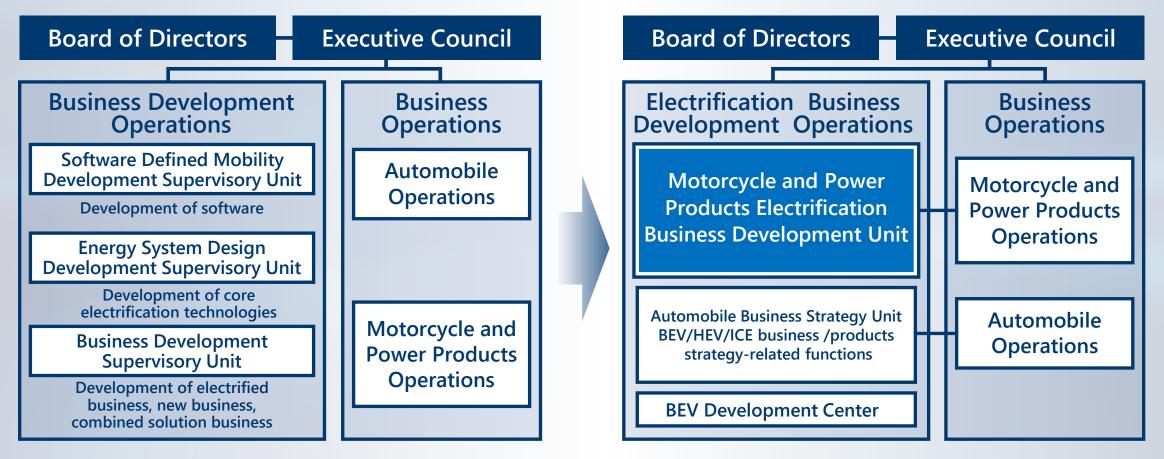
2023 Honda Briefing on Motorcycle Electrification Business

November 29, 2023 16:30-17:30

The Power of Dre

Working toward the realization of carbon neutrality by 2050 Electrification Business Development Operations

Newly established in April 2023



Overview of Honda Motorcycle Business



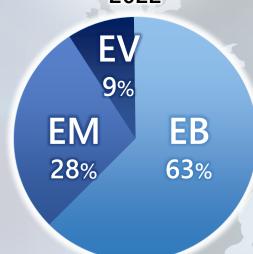
Honda has established motorcycle sales and service networks to serve customers all around the world

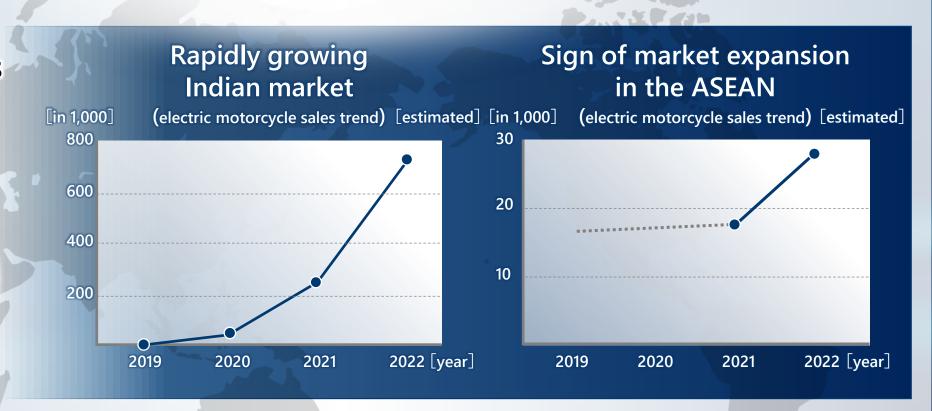
Global Electric Motorcycle Market

Global market size _Approx.

5.5 million units

(EV/EM/EB Total) 2022





Honda will further increase market share with sales of electric models

Honda Electric Motorcycle Business Initiatives



2024 Introduction of models powered by swappable batteries (equivalent to 110-125cc)





Entering into full-fledged electric motorcycle market = Positioning 2024 as first year of global rollout of Honda electric motorcycle models

Honda Electric Motorcycle Strategy Updates since the September 2022 announcement

Sales target (Honda Group unit sales)	2030	4 million units announced in 2022)
Total number of electric models	By 2030	Approx. 30 models (2022 announcement: "more than 10 models by 2025")
Cost reduction target for finished electric motorcycles	By 2030	Approx. 50% reduction
Investment amount	By 2030	Approx. 500billion yen (including dedicated electric motorcycle plans, battery plants and development expenses)
Profit target (operating profit margin)	By 2030 In 2030s	More than 10% *Electric motorcycle business only

Honda Electric Motorcycle Strategy

Sales target (Honda Group unit sales)	In 2030	4million units	Investment amount	By 2030 Approx. 500 billion yen
Total number of electric models	By 2030	Approx. 30 models	Profit target (Operating profit margin)	By 2030 More than 5%
Cost reduction target for finished electric motorcycle	By 2030	Approx.50% reduction		In 2030s More than 10%

Vision for Electric Motorcycle Business

- To offer experiences that make the daily lives and travel time more enjoyable for all people
- To offer peace of mind and comfort in various situations in people's ever-evolving daily lives and mobility society

Strengths of Honda

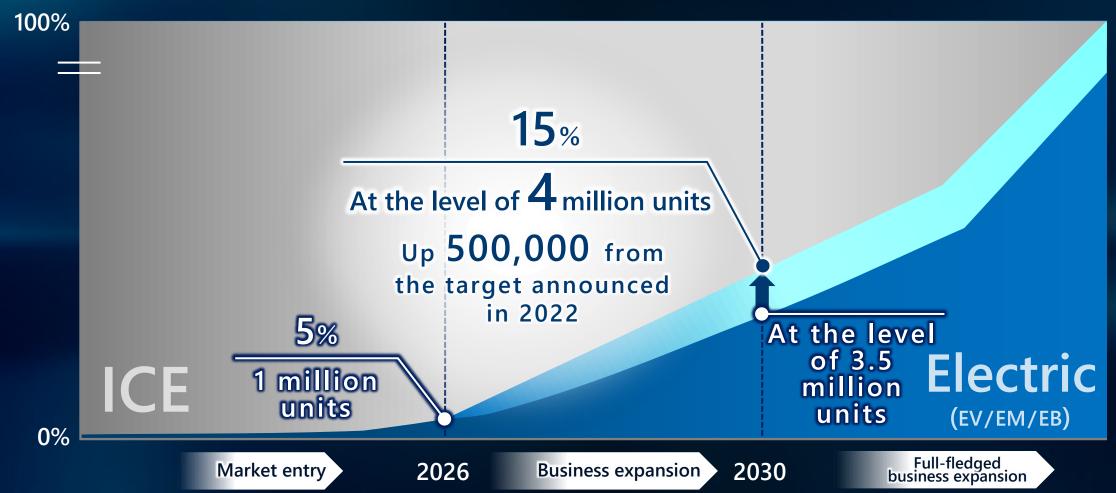
Offering a full lineup of motorcycle products

Development, production and procurement capability amassed through ICE motorcycle business

Electric models featuring the fundamental functionality of motorcycles - accelerating/ cruising, turning and stopping – as well as connectivity

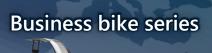
Offering integrated online and offline customer touchpoints through utilization of a sales network with 30,000 dealership locations.

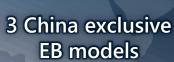
Image of Global Sales of Honda Electric Motorcycles Sales ratios of electric and ICE models



Building a Full Lineup of Electric Models

Introducing a total of approx. 30 electric models globally by 2030







Personal-use EM1 e:







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Advancement of Honda Motorcycles with Electrification

Strengths of Honda

- Know-how in areas of development, production and procurement amassed through ICE motorcycle business
- Fundamental functionality, such as accelerating/cruising, turning and stopping

Enhanced comfort through connectivity



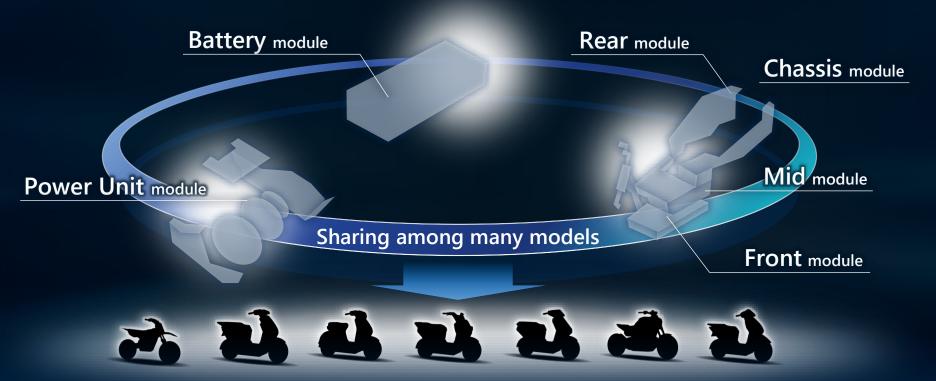
Products that continue to advance through post-purchase software updates

Target

Early adopters (throughout market entry and business expansion period)

Utilization of Modular Platforms

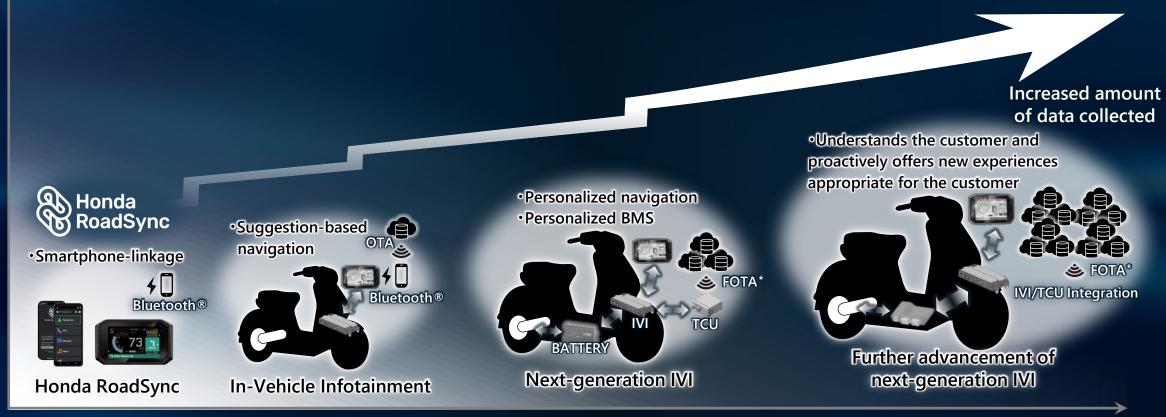
Leveraging know-how of platform sharing amassed through ICE motorcycle business, the battery, power unit and chassis of electric motorcycles are modularized respectively



Utilization of modular platforms will enable efficient introduction of models that accommodate the diverse needs of customers around the world

Advancement of Connectivity

Collect customer data from both ICE and electric models and advance software to offer functions and performance customized for each individual customer



2020 2024 2030 2035

Battery Application Strategy

Lithium-ion batteries (NCM/LFP)
 Offer most suitable batteries in accordance with how and in what kind of environment our electric motorcycles will be used by customers around the world

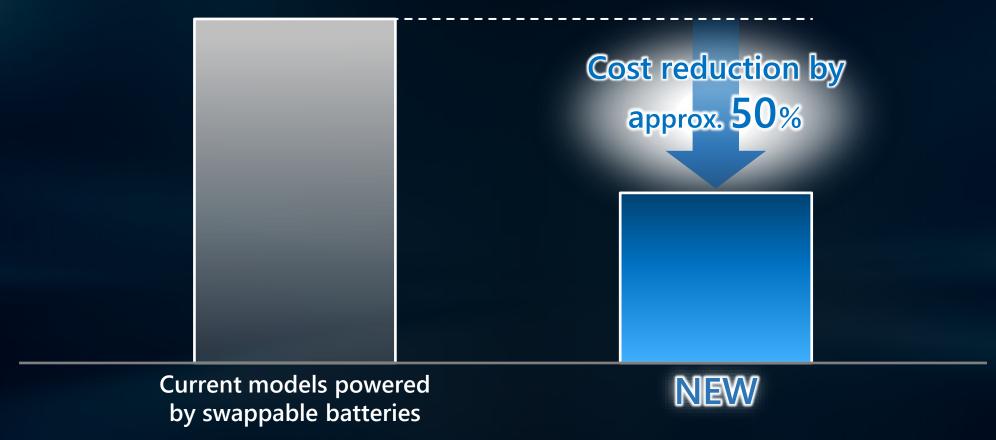


All-solid-state batteriesExplore adoption in the mid- to long-term

lithium ferro-phosphate batteries (LFP)

Ternary lithium-ion batteries (NCM: nickel-cobalt-manganate)

Reducing the Cost of Finished Electric Motorcycles



Reduce the current cost of finished electric motorcycles by 50% through the optimization of batteries, adoption of modular platforms, and optimization in the areas of production and procurement

Production and Procurement System and Capability for Electric Motorcycles Production Procurement

From now to 2027

Fully utilize the existing infrastructure for ICE models

Toward 2030 sales target of 4 million units

Begin production at the first dedicated electric motorcycle plant

Length of production line

Including the application of modularization technology
Approx. 40% shorter(vs. ICE lines)

Production capacity

Increased automation and efficiency
1 million units/year (per plant)

Investment amount

Approx. 50billion yen(per plant)

Flexibly leverage existing infrastructure for ICE motorcycles, while building dedicated electric motorcycle plants to accommodate the growing production volume

Current

Procuring finished components of electric motorcycles

To optimize the cost of electric models



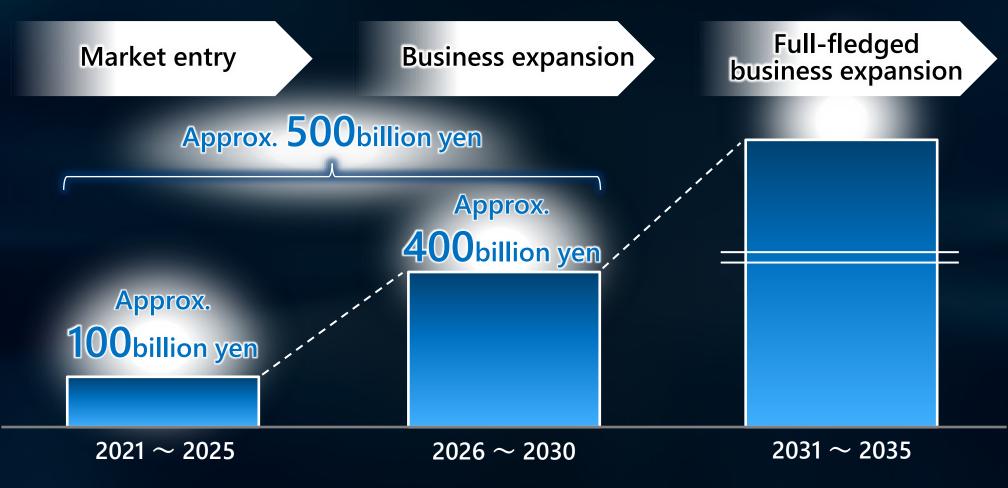
Assembly process

*ECM = Engineering Chain Management

Pursue the establishment of optimal procurement structure by dismantling and reorganizing the current procurement structure

Amount of Investment in Electric Motorcycle Business

(including dedicated electric motorcycle plants, battery plants and development expenses)



Price Range of Honda Electric Motorcycles During Market Entry Period

Cost of maintenance, fuel, and other expenses

Price of motorcycle

Cost of maintenance, electricity, and other expenses

Price of motorcycle

Total cost of initial 3-year ownership of an ICE-powered motorcycle

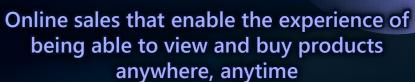
Total cost of initial 3-year ownership of a Honda motorcycle

Honda will offer electric motorcycles at prices that achieve fair lifetime cost compared to that of ICE-powered motorcycles

Customer Touchpoint in the Era of Electrification

Enhanced convenience through online services x peace of mind customers feel with offline services provided by the network of 30,000 dealership locations

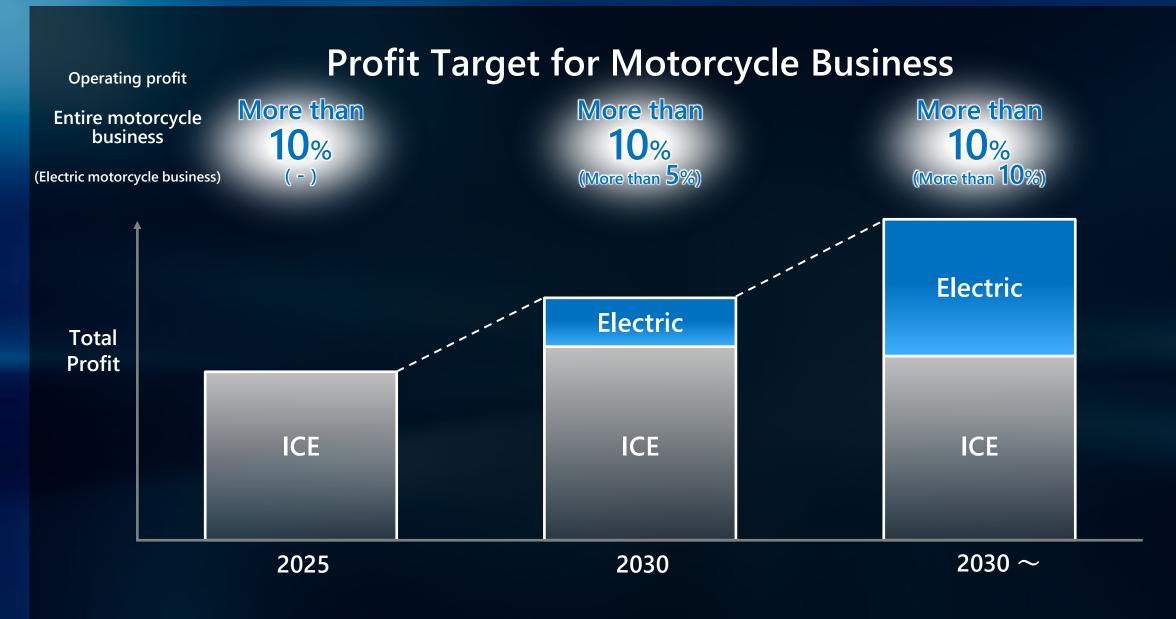






Establish "Experience Centers" where customers can experience and related to the world of electric motorcycles offline. Customers can touch the actual products and gain peace of mind with after-sales services

Honda will strengthen online services and offer integrated online and offline customer touchpoints that provide customers with more convenience and peace of mind



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Development, production and procurement capability amassed through ICE motorcycle business Electric models featuring the fundamental functionality of motorcycles - accelerating/ cruising, turning and stopping – as well as connectivity Offering integrated online and offline customer touchpoints through utilization of a sales network with 30,000 dealership locations



How we move you.

CREATE ► TRANSCEND, AUGMENT