

SPV Business Presentation

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Land Mobility Business Operations: Long-Term Vision for 2030

Bringing Joy into Mobility and Fun into Holidays Together with Our Stakeholders

- Create unforgettable moments and experiences
- Support our colleagues to foster firm and lasting partnerships
- Coexist with Mother Nature and preserve it for future generations
- Create mobility and services that usher in a new tomorrow

Direction of the SPV Business



As a growth business, aim to both expand our business scale and maintain a high profit margin

Generate stable cash flows

9.6% ROS (2019–2021)



Low

Determine the direction of

the business from

the perspective of scale

and profitability

■ Growth-focused resource investments, e.g., human capital and growth investments

■ Build a highly efficient business structure

Production | Procurement |
Development
Collaborate with companywide roles

DX | Foundation-Building |
Strategizing
Unify roles within the business
unit



SPV Business Presentation

TAKAHASHI, Nobuharu

Executive General Manager of Smart Power Vehicle Business Unit Land Mobility Business Operations

Presentation Agenda



- 1. SPV Business Overview
- 2. The Market
- 3. Our Strategy
- 4. Medium-Term Strategy

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Mission of the SPV Business



Expand the possibilities in people's lives with technologies that put human perceptions first and transform mobility to solve the environmental issues society faces.

The SPV Business in tasked with leading the way with the "Transforming Mobility" in our Long-Term Vision.





Registered in FY2022 as the world's first commercialized electrically power-assisted bicycle in the National Museum of Nature and Science's Essential Historical Materials for Science and Technology (#00334)

Electrically power-assisted bicycle: Launched in 1993 as a world-first and pioneered the category

Electric wheelchair: Launched in 1995 as a health and welfare product

Brand Slogan and Value Offered



"Being with You" The users are center stage and we are their stagehands

eBike and electric wheelchair market demands



e more indistinguishable it is om a conventional bicycle or wheelchair, the better

The smaller and lighter the power-assist system is, the better

Inconspicuous looks and quiet performance

Yamaha's reputation







Intuitive operation and natural feel and comfort





Natural assistive feel and reliability

All-important drive units

Yamaha-brand CBU models

The unique points of SPV ↑ among Yamaha products



Human power

Electric power assist

e-Kits for OEMs

e-Kits for OEMs Yamaha-brand e-Kits

Examples of product applications

Expands your possibilities



Core Needs and Draws for SPV Products



— Let's strive for greater happiness —

SPV products amplify people's physical capabilities to help them do more







Lifestyle
Go farther
with ease



Move Faster and easier









Presentation Agenda



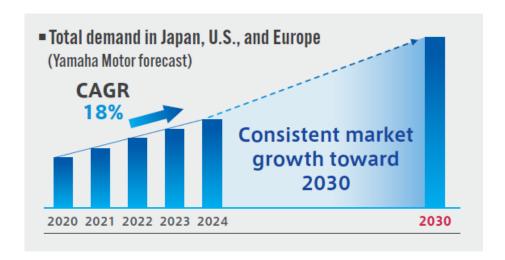
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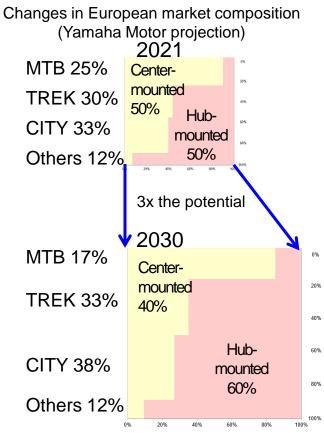
Market Scale and Growth Potential by Region/Category

Electrically power-assisted bicycle market demand has materialized and growth continues to be steady in Europe, the U.S., and Japan. Demand is expected to be further encouraged by rising day-to-day eBike use, hobbyists, alternatives to cars in urban/suburban areas, the development of infrastructure (bicycle paths) driven by policies such as restrictions on cars from entering urban centers as part of the European





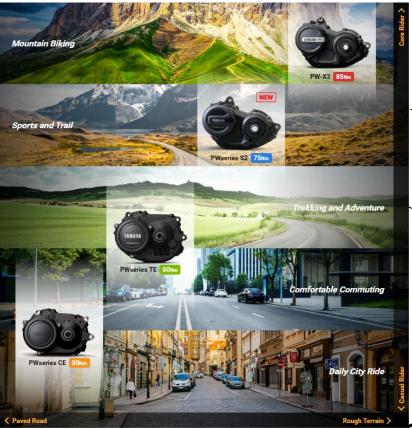
From Medium-Term Management Plan announced Feb. 2022

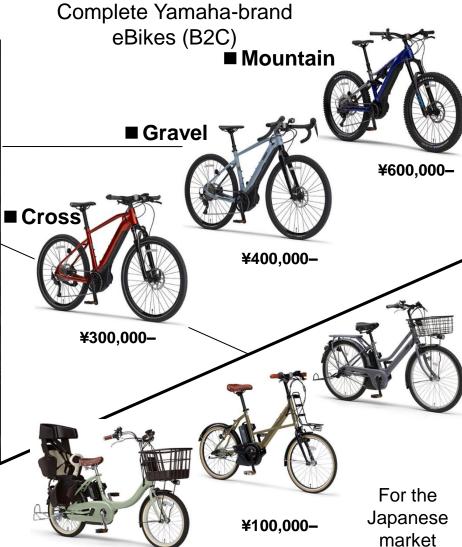




Market Scale and Growth Potential by Region/Category: Yamaha lineup (sample)

OEM supply of eBike drive units (B2B)





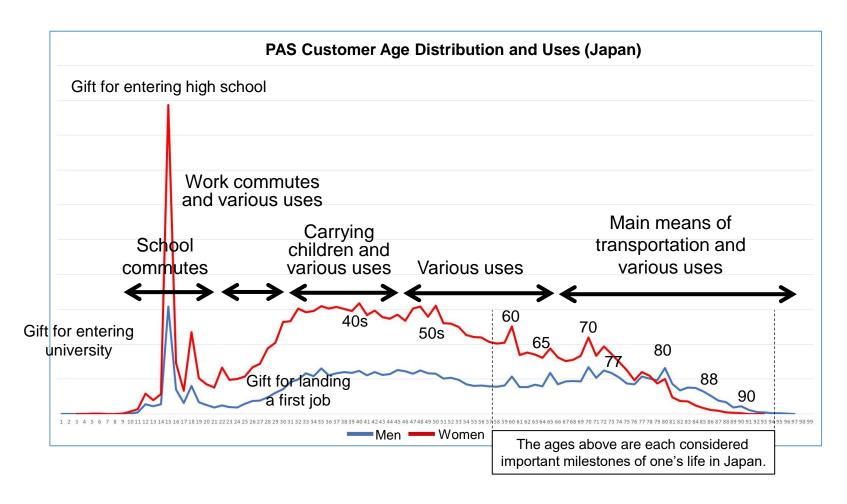


For the Japanese market



Customer Age Demographic Students to Seniors

SPV products are the gateway to experiencing a wide variety of other Yamaha products or before trying another SPV product, making seamless proposals possible.





Market Scale and Growth Potential by Region/Category: Yamaha lineup (sample)

Electric wheelchair drive units (B2B)

Electric wheelchairs (B2C/B2B)

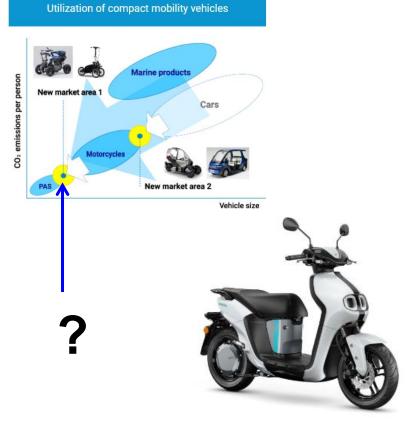
■ Electric types (joystick): Mainly used domestically





Challenging New Market Areas

From CO₂ reduction strategy in the Yamaha Motor Group Environmental Plan 2050







Pedestrians

Bicycles

New market area 1

Motorcycles

Existing SPV offerings

New products

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Product Strategy: Natural Progression

Calling on our 30-year track record of quality and reliability

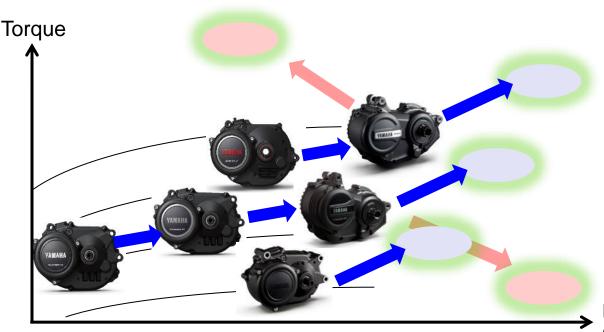
Yamaha's electrically power-assisted products are praised for and superior in performance to competing offerings in these respects:

■ Intuitive operation and natural feel and comfort ■ High reliability

Based on these, we pursue the demand trends for inconspicuous looks and quiet performance and bring advances in terms of:

- Lightness
- Compactness
- Power

Further, we will differentiate our products in each segment as required by offering options for customization.

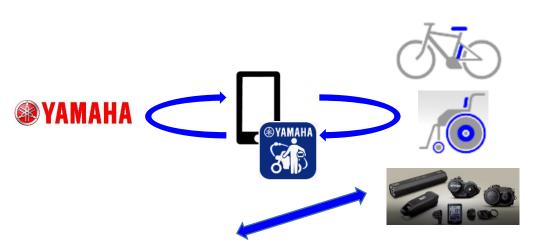


Light weight Compactness



Product Strategy: Connectivity

We will update the functionality and value of both our electrically power-assisted bicycles and electric wheelchairs by evolving products themselves (hardware/software) and services offered. The software in particular can be updated through post-purchase downloads. For services as well, we can offer other value through connectivity, ranging from the fundamental values of peace of mind and safety to ones for more segmented, hobby-focused needs. We will start by carefully identifying the fundamental values customers will want to "connect" to via PoC.



Added value broken down by user hobbies or preferences (services: customers decide on necessity)

Convenience (service) improvements

Added value

(software: online functionality updates)

Functionality (specs) improvements

Common fundamental values (necessary for all customers)

Recycle and reuse (long life) /
Peace of mind and safety education

Peripheral components

- External battery
- Cycle computer

- Electric transmission
- ABS unit
- Electronic suspension



Cross-Functionality: Constant improvements yielding B2B and B2C synergy Use our e-Kits (OEM brands) and CBUs (Yamaha-brand) to bring mutual benefits

We will improve the current state of our 3S (Sales, Service, Spare parts) functions and our *Monozukuri* by melding and overlapping them with the knowledge we have gained in each of our B2B and B2C markets.





Cross-Functionality: Create New Applications

Contribute to work efficiency and laborsavings

As we aim for the natural progression of our electrically power-assisted bicycles and electric wheelchairs, develop new applications, i.e., ones outside of the original framework of the SPV business and its products, that leverage the unique versatility advantages of small-scale e-mobility.





At factories



Exhibited models at iREX2022



When firefighting







This hose layer uses a PAS drive unit and assists on-site efficiency and laborsavings (built by Yamaha Motor Engineering Co., Ltd.)

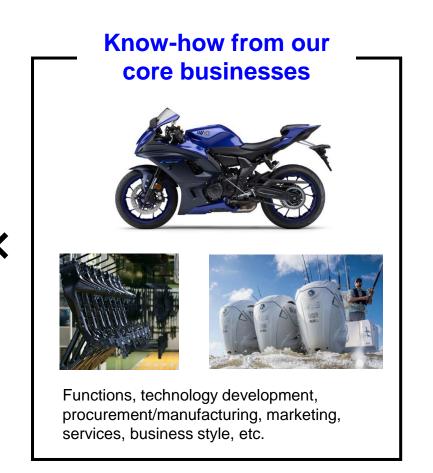


Cross-Functionality: Create New Value

Create originality that goes beyond industry boundaries

As we aim for the natural progression of our electrically power-assisted bicycles and electric wheelchairs, we will also engage in new value creation by **crossbreeding uniquely Yamaha Motor assets.**





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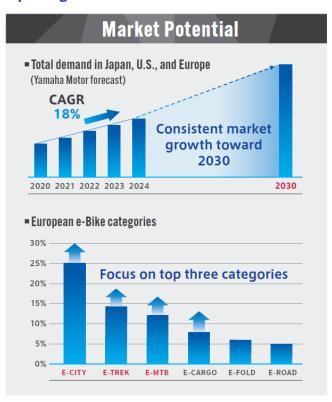


We will supply both complete Yamaha-brand electrically power-assisted bicycles and electric wheelchairs as well as products for OEMs (drive units, etc.). We will strive to answer the needs of the Yamaha brand as well as those of our OEM clients.

Strategic Business Fields: SPV (Growth Businesses)



Expanding market + Customized e-Kits and new Yamaha-brand models > Expand scale and double net sales







▶ e-Kit Customization and Co-Development

Emboldening OEM clients to pursue their uniqueness

In addition to offering ready-made models, we strive to give OEM brands the best options and will take on requests for customization* of drive units (exclusive or joint development) to provide even more fine-tuned performance that delivers smooth starts at the pedal and powerful assistive force.

*Creating the output motor characteristics OEM desire with precise electronic control

Dealer Direct Service

Yamaha eBike Systems Service (YeSS)

In Europe, the largest market for electrically power-assisted bicycles, we have long been receiving requests from our OEM clients to provide dealer direct services, in which Yamaha responds directly to service inquiries from client sales channels and handle processing. We will roll this out starting with clients and regions that have made firm requests. We are currently aligning our respective IT infrastructures in preparation.

■ Technical Support
■ Warranty
■ Spare Parts
■ Training

Calling on 30 years of experience in the eBike business and almost 60 years in the mobility business in Europe alone, we will roll out fast and effective support for the four key services above in each region and country.



▶ Drive Unit Production in Europe

Accelerate our carbon-neutral efforts

Europe is the largest market for electrically power-assisted bicycles and the demands for carbon neutrality are set to rise even further, so we are aiming to contribute by transferring the SCM process to the prime region of consumption. This is to leverage the company's existing assets with the growing momentum behind the transition to e-mobility.



Production of Hub-Mounted Drive Units in India

Increasing the overall strength of the business in anticipation of global market growth

Hero Cycles is the largest bicycle manufacturer in India, part of the HMC Group, and hungry for global expansion. We have partnered with them and are constructing a factory for hub-motor manufacturing at Hero E-Cycle Valley located in northwestern India. In addition to center-mounted drive units, we are working to expand the lineup of drive units to meet a wide range of demand.



Overseas Development of CBU Models

YAMAHA SWITCH ON (Europe)

Europe is showing the biggest momentum in terms of shifting to e-mobility and it is the biggest market for eBikes, so we plan to introduce complete Yamaha-brand offerings there.

Going forward, if there are areas exhibiting demand, we will endeavor to answer customer expectations as well as the needs of society, whether it is with our OEM e-Kit business, our own branded products, or both.



