

## Yamaha Motor Group Environmental Plan 2050

Yamaha Motor Co., Ltd. announced the Yamaha Motor Group Environmental Plan 2050 in December 2018. This Plan aims to reduce CO<sub>2</sub> emissions during product use, CO<sub>2</sub> emissions during manufacturing and transport, and the volume of resources usage by 50% from the base year of 2010 by the target year of 2050. At the same time, the Plan also involves taking initiatives regarding environmental preservation and biodiversity from a global perspective.

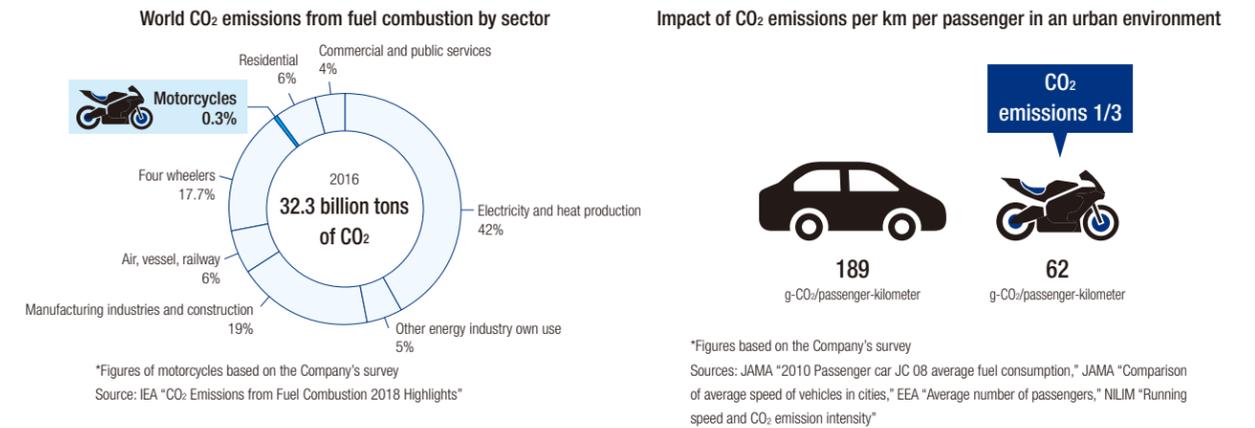
Action Themes	2050 Targets	Priority Actions
<b>Low Carbon Society</b> 	<b>(Products)</b> Providing environmentally friendly personal mobility 50% reduction of CO <sub>2</sub> emissions from products by 2050 (on FY2010 levels)	
	1 Reduction of CO <sub>2</sub> emissions from use of products by users (t-CO <sub>2</sub> /unit sales)	Promotion of development to improve fuel efficiency
	2 Development, promotion and spread of next-generation mobility	Promotion of development and the spread of products that respond to energy diversification
	<b>(Business Activities)</b> 50% reduction of CO <sub>2</sub> emissions throughout life cycle (on FY2010 levels)	
<b>Recycling Society</b> 	3 Reduction of CO <sub>2</sub> emissions generated in operation of production (t-CO <sub>2</sub> /net sales)	Reduction of CO <sub>2</sub> emissions per sales at factories globally
	4 Reduction of CO <sub>2</sub> emissions in logistics	Reduction of CO <sub>2</sub> emissions per transportation unit
	<b>(Resources)</b> 50% reduction of "resource use" (on FY2010 levels)	
	5 Reduction of new resources use by recyclable resources use	Promotion of saving of limited resources by 3R development/manufacturing
<b>Society in Harmony with Nature</b> 	6 Reduction of waste generated in operation of production	Promotion of waste reduction
	7 Reduction of water consumption in operation of production	Promotion of water consumption reduction activities based on water stress scenarios
	8 Reduction of packing materials in logistics	Enhancing returnable packing materials
	<b>Addressing environmental preservation and biodiversity globally</b>	
<b>Management</b> 	9 Activities to protect fields of product use by users (land, sea and air)	Promotion of activities to preserve nature globally
	10 Activities to protect ecosystems of land/ocean	Promotion of activities in line with our outline of biodiversity initiatives
	11 Activities to contribute to solving environmental issues of each country and region	Carrying out activities by all employees to contribute to a sustainable world
	<b>Management</b>	
12 Strengthening of compliance with environmental laws and regulations and management of chemical materials in products	Thorough implementation of environmental compliance in business activities in each country and region	
13 Contribution to alleviation of air pollution globally	Introduction of mobility in conformity with regulations on exhaust emissions in each country and region	
14 Reduction of VOC emissions in operation of production	Promotion of VOC reduction per unit of painted area	
15 Promotion of environmental activities in collaboration with suppliers	Promotion of engagement with suppliers and reduction of burden through environmental surveys	
16 Fostering awareness of environmental preservation through environmental education globally	Carrying out environmental education according to environmental issues in each country and region	

## Yamaha Motor products contribute to achieving a more sustainable society

### Mobility with extremely low CO<sub>2</sub> emissions

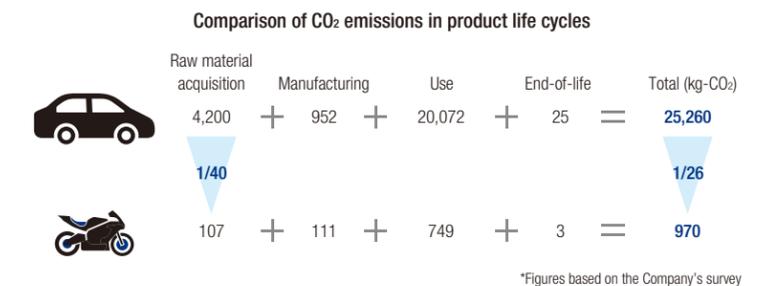
The world produced 32.3 billion tons of CO<sub>2</sub> emissions in 2016. Of this amount, motorcycles accounted for just 0.3% of the total as a source of emissions and are therefore vehicles with an extremely low environmental impact.

In addition, motorcycles are the fastest and most fuel-efficient option for mobility in urban environments, and have 1/3 the impact of CO<sub>2</sub> emissions per km per passenger compared to automobiles.



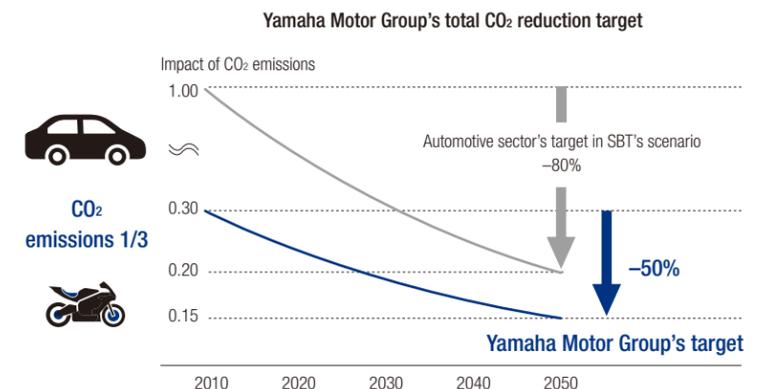
### Minimal environmental impact over product life

Motorcycles are an environmentally friendly and sustainable mobility option, with 1/26th the total CO<sub>2</sub> emissions over their product life and 1/40th the raw resources required of passenger cars.



### Target setting approach

The Yamaha Motor Group Environmental Plan 2050 established targets based on the Science Based Targets initiative (SBTi) to be a company actively contributing to reducing CO<sub>2</sub> emissions and avoiding a "2°C scenario." With the innate advantages of personal mobility a factor, the Company has set a reduction goal that exceeds the targets of the automotive sector.



## Coexistence and mutual prosperity of the Company and local communities

The Yamaha Motor Group operates in locations around the world and our business activities help support local communities. Our products also play a role in enriching the lives of people around the world. We recognize the importance of maintaining a sustainable relationship through which the Company and local communities can coexist and mutually prosper. To achieve this, we place great importance on maintaining and enhancing a relationship of trust through daily communication with stakeholders in those communities.

### Important Areas of Activities

Key Themes	Global Issues			Local Issues
	Developing Future Leaders	Environmental Conservation	Improving Traffic Safety	Resolving Local Community Issues
Activities	<ul style="list-style-type: none"> <li>Promoting mental/emotional and physical health through sports</li> <li>Promoting creativity through engineering, manufacturing, and marketing</li> </ul>	<ul style="list-style-type: none"> <li>Environmental education for local communities</li> <li>Respecting biodiversity</li> </ul>	<ul style="list-style-type: none"> <li>Providing traffic safety education to the community</li> <li>Raising awareness</li> </ul>	<ul style="list-style-type: none"> <li>Supporting the community with Yamaha Motor's products, human resources, and know-how</li> </ul>

### Developing Future Leaders

#### Joint *Monozukuri* Classroom for children with Yamaha Corporation

To realize the theme of "Two Yamas, One Passion," musical instrument manufacturer Yamaha Corporation and Yamaha Motor Co., Ltd., which share the same brand, hold *Monozukuri* Classrooms for children.

At the Yamaha Communication Plaza, Yamaha Corporation held a "Let's Make a Kalimba Thumb Piano" event where children used leftover and scrap wood



from instrument manufacturing processes to make a traditional African musical instrument to learn about how sound is produced, while Yamaha Motor held a "Motor Construction Classroom" where children used electromagnetism to magnetize a nail, and made a motor by wrapping nichrome wire around the core portion of a motor and attaching it to a model car to make an electric vehicle.

### Environmental Conservation

#### Beach Cleanup Activities for the Blue Sea

Yamaha Motor Vietnam (YMVN) has been conducting the Beach Cleanup

Activities for the Blue Sea at beaches in various locations since 2015.

A total of 2,500 people have participated over the last four years.

Participants include YMVN officers, employees, and their family members who use some of their summer vacation to take part in these activities, which begin early in the morning. Participants walk along beaches and collect garbage such as bottles and plastic items. These activities are effective for reminding local residents and tourists of the importance of activities to preserve the global environment. They also contribute to the environment and the local community through social activities, offering excitement.

### Improving Traffic Safety

#### Partnering with vocational schools to reduce fatal traffic accidents among young people

The Yamaha Motor Group carries out a variety of safe riding programs to reduce motorcycle accidents around the world.

In 2018, Thai Yamaha Motor concluded a comprehensive contract with six vocational schools in Thailand and launched activities to reduce fatal accidents among young people. Going forward, this tie-up plans to expand to 11 locations.



### Resolving Local Community Issues

#### Support following earthquakes in Lombok, Indonesia

A magnitude 7-plus earthquake struck the Indonesian island of Lombok in August 2018, and was followed by several large aftershocks.

According to the Indonesian National Board for Disaster Management, the death toll reached 515 persons, with more than 7,000 people injured and more than 430,000 forced to evacuate.

Yamaha Indonesia Motor manufacturing, together with PT. Surya Timur Sakti Jatim (located in the city of Surabaya), our dealer for Lombok island, donated generators to the Indonesian army for its relief and recovery work in the area. Lombok had continued blackouts and roads were covered with debris. Despite the situation, the donated ET-1 generators were put to a variety of uses, including clearing roads, illumination, and recharging batteries.

## Showing society the value of challenge through sports

Since its founding, Yamaha Motor has blazed new trails driven by a spirit of challenge, which is engrained in our corporate culture and is deeply embedded in the spirit of each Group employee.

Activities promoting sports are an easy-to-understand way to convey this approach to challenges, and through these activities we hope to send a message to society conveying the joy of having dreams and the value of facing challenges.

### Racing

Racing competitions with strict rules and uniform conditions enable people to ascertain their own levels and provide venues for developing the latest technologies. They also continue to provide excitement to people around the world as a symbol of challenge.



### Japan Rugby Top League

Yamaha Motor Jubilo, Yamaha Motor's rugby team, competes at the highest level in Japan's top domestic corporate league, the Japan Rugby Top League.



### Yamaha Motor Foundation for Sports

This foundation was established as one of the activities to commemorate the 50th anniversary of Yamaha Motor's founding, with a mission of supporting people who are pursuing their dreams in sport.



### Competitive Sailing

YAMAHA Sailing Team 'Revs' is aiming to place highly in major domestic and international competitions, including World Sailing's World Cup Series and other world championships.

