

## Results for the 6th Environmental Action Plan (2016 to 2020)

## FY 2017 Environmental Activities Summary #1/1/ €0⅓ Establishing a Low-carbon Society Reduction of CO<sub>2</sub> emissions lightweight designs for products Reduction in greenhouse gases Pursuit of efficient transportation in logistics activities and reducing CO2 emissions locations in each region Establishing a Recycling-based Society Promoting product designs and technological developments to make recycling easy and efficient use of natural resources Reduction of use of water in

## Action items

- Promoting introduction of renewable energy
- CO<sub>2</sub> reduction by daily improvement activities, and use or development of low-CO2 production engineering
- Promotion of more compact and lightweight designs
- Development of new products / technologies in response to new energy trends
- Understanding and visualizing CO<sub>2</sub> emissions in the life cycles of principal products
- Managing non-energy related greenhouse gases
- Reduction in emission of SF<sub>6</sub> gas used in magnesium alloy casting
- Promotion of CO<sub>2</sub> reduction activities by further improving transportation efficiency
- Continuous management of PRTR substances and promotion of reduction activities
- Enhancing the management of chemical substances contained in products based on regulatory trends in each country and each region, and promotion of changing over to substances with a lower environmental load
- Active social contribution through links with local communities, and promotion of volunteer activities
- Enhancement of grants to environmental activities
- Promotion of environmental preservation / conservation of biodiversity in accordance with the biodiversity guidelines shared by All Toyota and the needs of each region
- Implementation of education that is rooted in the local community and makes use of offices and in-the-field

production activities

Effective use of resources and reduction of packaging and wrapping materials in logistics activities

- Promotion of more recyclable product designs and the use of more recyclable materials
- Waste reduction by daily improvements, and use or development of waste reduction production engineering
- Promotion of continuous reduction activities for water consumption, taking into consideration the situation regarding the aquatic environment in each country and region
- Promotion of improvement centered on making wrapping materials returnable and lightweight

## **Environmental Management**

Enhancing and promoting consolidated

- Promotion of environmental activities in cooperation with business partners
- each country and region
- Enhancing global employee education / enlightenment activities
- Proactive disclosure of environment information

- Enhanced environment committee activities in and outside of Japan for the execution of activities to ensure the top-level environmental performance of different countries and regions
- Complying with the environment-related laws of different countries and regions, and strengthening environmental risk prevention activities
- Enhancing further cooperation with suppliers and promoting global activities to improve the environment together
- Expansion of the introduction of low-emission vehicles in each country and region
- Promotion of enlightenment for awareness regarding environmental preservation, through global environmental education
- Further enhancing the content of information disclosure related to environment
- Enhancing environmental communication activities in each region

Establishing a Low-carbon Society Establishing a Society in

Establishing a Recycling-based Society Environmental Management

Tokai Rika has established the 6th Environmental Action Plan to guide its environmental activities, has set specific figures as its targets, and is working toward achieving them. We successfully achieved all of our targets in FY 2017.

FY 2017 activities results	FY 2017 target value  ▼	FY 2017 results  ▼	Assessmen	t Page to refer to
<ul> <li>Introduction of renewable energy</li> <li>Improvement of energy-saving production equipment through an Energy Saving Subcommittee</li> <li>Horizontal development activities for energy-saving improvement</li> <li>Horizontal development activities for example cases of Karakuri mechanisms</li> <li>Enlightenment activities (Exhibitions, Outstanding Example Award</li> </ul>	Tokai Rika Group  93.9  t-CO2 / 100 million yen  Tokai Rika  49.0  t-CO2 / 100 million yen	Tokal Rika Group  88.5  t-CO2/100 million yen  Tokal Rika  45.2  t-CO2/100 million yen	0	▶P.34
More compact and lightweight	-	_	0	▶P.39
<ul> <li>Substituting for SF<sub>6</sub> in magnesium alloy casting processes</li> </ul>	-	_	0	▶P.40
<ul> <li>Improvement of transportation efficiency, by reviewing the routes</li> <li>Improvement of transportation efficiency, by improving the packag</li> </ul>	Tokai Rika 1.29 t-CO2 / 100 million yen	Tokai Rika 1.16 t-CO2/100 million yen	0	▶ P.40
Reducing consumption of PRTR substances	_	_	0	▶ P.41
Reducing emission of VOCs      Promotion of lead-free soldering     Switching to products that do not contain newly regulated	_	_	0	▶ P.42
<ul> <li>substances</li> <li>Social contribution and volunteer activities through links will local communities</li> </ul>	th	_	0	▶ P.42
<ul> <li>Promotion of forest creation activities</li> <li>Participation in All Toyota cooperative activities</li> <li>Implementation of biological response evaluation of plant drainage</li> </ul>	-	_	0	▶P.43
<ul> <li>Improvement of ease of disassembly, by reviewing the design</li> <li>Promotion of the use of recycled materials</li> </ul>	_	-	0	▶P.44
<ul><li>Improvement of production yields</li><li>Promotion of 3R (reduce, reuse, recycle) activities</li></ul>	Tokai Rika 2.33 t / 100 million yen	Tokai Rika 1.82 t / 100 million yen	0	▶ P.44
Use of recycled water (semiconductors, plating processes)	<del>_</del>		0	▶ P.45
<ul> <li>Reduction of packing and wrapping materials, by reviewing the packing methods</li> <li>Making packing materials reusable</li> </ul>	Tokai Rika 0.609 t / 100 million yen	Tokai Rika 0.519 t / 100 million yen	0	▶P.45
<ul> <li>Global environmental activities</li> <li>Acquisition of EMS external certifications at domestic grouproduction bases</li> <li>Appropriate treatment of PCBs</li> </ul>	р	_	0	▶P.46
<ul> <li>Deployment of environmental information to partner companies</li> <li>Actual-location study activities with partner companies</li> </ul>	_	_	0	▶ P.48
<ul> <li>Expansion of the introduction of low-emission vehicles</li> </ul>	Tokai Rika 42% or more	Tokai Rika <b>47.2</b> %	0	▶ P.48
<ul> <li>Environment for training key persons through education</li> <li>Development of enlightenment activities during environme month</li> </ul>	nt —	_	0	▶ P.49
<ul> <li>Issuing of the Tokai Rika Report and Eco Data File</li> <li>Hosting of local social gatherings</li> </ul>	-	_	0	_