Environmental Targets for Fiscal 2016 and Results Achieved

	, , , , , , , , , , , , , , , , , , ,		Medium- and long-term Targets Complete the conversion to lead-free sintered material by 2020 (for local and bullet trains)			
	Targets for Fiscal 2016		Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After	
R&D	Further promote a changeover to the lead-free sintered material for applicable categories of rolling stock Develop lead-free sintered materials that suit for other categories of rolling stock		Lead-free rate is 61% as of fiscal 2016 (55% the previous fiscal year) Completed the development of a lead-free sintered material (not applicable to certain categories of rolling stock) Promoted a changeover from conventional sintered materials to the lead-free sintered material for applicable categories of rolling stock		Further promote a changeover to the lead-free sintered material for applicable categories of rolling stock Develop lead-free sintered materials that suit for other categories of rolling stock	

	Initiatives	Reduction of total CO ₂ emissions at production plants in Japan	Medium- and	Reduction of CO ₂ emissions intensity more than 1% on an annual average by 2020 Continue to enhance environmental activities		
		Continue and improve ISO14001-related activities	long-term Targets			
		Promotion of zero-emission activities at production sites: eliminate direct landfill disposal				
uo				Maintain zero emissions		
ucti	Targets for Fiscal 2016		Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After	
Produ	\bullet Reduction of CO_2 emissions intensity more than 1%		20% reduction in CO2 emissions intensity in Japan by operating income in fiscal 2016 on a year on year achieved by introduction of next-genera- tion friction materials manufacturing equipment and application of thermal barrier coatings to factory roofs		Collect information g technologies	lobally on CO ₂ reducing measures and energy-saving
	Firmly root ISO14001 in operations and steadily renew certifications		Renewed the ISO14001 certifications at seven sites, including Sanyo Manufacturing		Continue to firmly roo	ot ISO14001 in operations and steadily renew certifications
	Maintain zero emissions; generate no direct landfill disposal		Maintained zero emissions; generate no direct landfill disposal		Continue to maintain	zero emissions; generate no direct landfill disposal

Education	Initiatives Environmental training center		Nurture human resources to disseminate environmental preservation methods to locations nationwide through training programs implemented at Environmental training center			
Ital	Targets for Fiscal 2016		Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After	
• Get fee	Get feedback from the trainees and reflect it in the program		Held lectures on chemical substance management by external instructors Started introducing the online education program implemented at ABCT (United States) to Japan		Get feedback from the trainees and reflect it in the program	

Refer to the following for performance data for each principal company. Akebono Environmental Data by Principal Company in Japan(PDF download 1,065 KB, 5 pages)

Environmental Targets for Fiscal 2016 and Results Achieved

	Initiatives Response to revised Energy Conservation Law (energy saving obligation of cargo owners)		Medium- and long-term Targets	Reduce unit energy consumption by 1% (five-year average)		
tics	Targets for Fiscal 2016		Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After	
Logis	Improve transport efficiency and increase energy usage efficiency		Reduced CO ₂ emissions per transport weight and distance from logistics by 0.6% on a year-on-year basis Implemented eco-friendly driving activities and seminars Introduced the real-time management system of truck operations		Continue efforts to reduce unit energy consumption by 1% or more in five-year average	

Initiatives	Initiatives Promotion of green purchasing Medium- and long-term Targets Establish structure that ensures purchasing activities in line with the Green Purchasing Guidelines Targets for Fiscal 2016 Results Achieved in Fiscal 2016		es in line with the		
			Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After
• Revise supplier	Revise supplier quality management (SQM) standard manuals		n tandem with suppliers into the alternate materials impact substances and require lower aim of making concrete proposals for new material ing revisions to SQM standard manuals to ensure ding of suppliers with regard to the Company's inental impact substance reduction (Enhanced and provided clearer descriptions of procedures vironmental impact substances)	Encourage suppliers Continue supply cha	to upgrade their environmental management systems in survey using IMDS*2

gineering	3 2 3		Medium- and long-term Targets	Develop manufacturing facilities that are reusable, achieving a greater yield ratio, energy saving, and eco-friendly operations with the aim of realizing environmentally friendly manufacturing		
ᇤ	Targets for Fiscal 2016		Results Achieved in Fiscal 2016		Plans for Fiscal 2017 and After	
Productio	Further enhance energy-saving and resource-saving technologies		Changed factory dust collection method from large-scale centralized collector to small, individual collectors that can operate in to match the operational status of each factory line		Further enhance energy-saving and resource-saving technologies	

^{*1} Global Automotive Declarable Substance List

^{*2} International Material Data System used by automobile industry to report data on materials