Environmental Targets for Fiscal 2015 and Results Achieved

	(SOCs) Targets for Fiscal 2015		Medium- and long-term Targets	Complete the conversion to lead-free sintered material by 2020 (for local and bullet trains)		
			Results Achieved in Fiscal 2015		Plans for Fiscal 2016 and After	
R&D			Lead-free rate is 55% as of fiscal 2015 (46% the previous fiscal year) Completed the development of a lead-free sintered material (not applicable to certain categories of rolling stock) Promoted a changeover of conventional materials to a lead-free material Lead-free rate is 46% as of fiscal 2014		Further promote a changeover to the lead-free sintered material for applicable categories of rolling stock Develop lead-free materials that suit for other categories of rolling stock	

	Initiatives	Reduction of total CO ₂ emissions at production plants in Japan	Medium- and long-term Targets	Improve CO ₂ intensity more than 1%		
		Continue ISO14001-related activities and improve environmental management system		Continue to enhance environmental activities		
on		Promotion of zero-emission activities at production sites: eliminate direct landfill disposal		Maintain zero emissions		
ucti	Targets for Fiscal 2015		Results Achieved in Fiscal 2015			Plans for Fiscal 2016 and After
Prod	• Improve CO₂ intensity more than 1% every year		Improved CO ₂ emission intensity by 5.1% compared with fiscal 2014 through a changeover of oil fired boilers to heat pumps and the application of thermal barrier coatings to building rooftops		Collect information globally on CO₂ reducing measures and energy-saving technologies	
	Firmly root ISO14001 in operations and steadily renew certifications		Renewed the ISO14001 certifications at four sites, including Akebono Brake (Thailand) Co., Ltd.		Continue to firmly root 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

ucation	3 11 11		Medium- and long-term Targets	Nurture human resources to disseminate environm methods to locations nationwide through training p at Environmental training center		
— —	Targets for Fiscal 2015		Re	ults Achieved in Fiscal 2015 Plans for Fiscal 2016 and After		Plans for Fiscal 2016 and After
Environmenta	Get feedback from the trainees and reflect it in the program		 In response to comments that the program was overly technical, we introduced simpler experiments, such as making the volume of CO₂ gas visible by collecting it in plastic bags, in this way offering a greater degree of choice to the trainees 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 2015 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 1% on a year-on-year basis			
tics	Targets for Fiscal 2015		Results Achieved in Fiscal 2015			Plans for Fiscal 2016 and After	
Logist	Continue efforts to reduce unit energy consumption 1% on a year-on-year basis		Reduced CO ₂ emissions from logistics by 4.8% on a year-on-year basis lmprovements • Eco-friendly driving activities and seminars • Introduced the real-time management system of truck operations		Continue efforts to reduce unit energy consumption 1% or more on a year-on-year basis		

	Initiatives	Promotion of green purchasing Medium- and long-term Targets Establish structure that ensures purchasing activities in line with the Green Purchasing Guidelines		es in line with the		
	Targets for Fiscal 2015		Results Achieved in Fiscal 2015		Plans for Fiscal 2016 and After	
Purchasing	Revise supplier quality management (SQM) standard manuals		materials that use few lower energy input wit material development Carried out the follow the greater understan approach to environm Enhanced GADSL*	ing revisions to SQM standard manuals to ensure ding of suppliers with regard to the Company's nental impact substance reduction 'explanations' explanations		to upgrade their environmental management systems in survey using IMDS*2

gineering			Medium- and long-term Targets	Develop manufacturing facilities that are reusable, a yield ratio, energy saving and eco-friendly operation environmentally friendly manufacturing		
ᇤ	Targets for Fiscal 2015		Results Achieved in Fiscal 2015		Plans for Fiscal 2016 and After	
Production	Further enhance energy-saving and resource-saving technologies		Completed installation of next-generation facilities at Fukushima Manufacturing to realize a 70% improvement to energy efficiency of sintering process in metal disk production		Further enhance energy-saving and resource-saving technologies	

^{*1} Global Automotive Declarable Substance List

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