

Targets and Results

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TDK Environmental Action 2015–Agenda
(FY 2010 and Medium and Long Term Objectives and Targets)

Established: April 1, 2006
Revised: April 1, 2009 (03)

Objectives	FY 2010 Targets			Medium Term (by March 2011)	Long Term (by March 2016)
	Scope	Target	Major Measures		
1 Preventing Global Warming	(1) Production sites	Global	• Reduce CO ₂ emissions by 4% or more from the FY 2006 level	① Improve energy consumption per unit of products by 2.0% or more year on year ② Reduce fixed energy consumption by 1.0% or more year on year ③ Set and strictly observe voluntary CO ₂ emission limits and targets	• Reduce CO ₂ emissions by 5% or more from the FY 2006 level
		Japan	• Reduce CO ₂ emissions by 3% or more from the FY 1991 level	① Set and strictly observe voluntary CO ₂ emission limits and targets ② Reduce fixed energy consumption by improving production methods and facilities	• Reduce CO ₂ emissions by 12% or more from the FY 2006 level (Reduction of 7% or more from the FY 1991 level)
	(2) Distribution	Global	• Reduce CO ₂ emissions in distribution (Set target for March 2011)	① Assess and review the amount of CO ₂ emissions	• Set reduction targets
		Japan	• Reduce CO ₂ emissions by 3% or more from the FY 2007 level	① Improve energy consumption per unit of products by 1.0% or more year on year	• Reduce CO ₂ emissions by 4% or more from the FY 2007 level
2 Managing Waste	Global	Global	• Reduce total waste emissions by 3% or more from the FY 2006 level	① Maintain zero emissions ② Improve outsourced recycling index by 1.0% or more year on year ③ Promote recycling to produce valuable resources	• Reduce total waste emissions by 4% or more from the FY 2007 level
		Japan	• Reduce total waste emissions by 3% or more from the FY 2007 level	① Improve outsourced recycling index by 1.0% or more year on year	• Reduce total waste emissions by 4% or more from the FY 2007 level
3 Managing Environmental Risks	(1) Manage Environmental Risks	Global	• Reduce or continue to contain environmental risks	① Implement measures for environmental risk management	• Reduce or continue to contain environmental risks
	(2) Reduce atmospheric VOC emissions	Japan	• Reduce atmospheric VOC emissions by 30% or more from the FY 2001 level	① Reduce atmospheric VOC emissions by 30% or more from the FY 2001 level ② Implement voluntary action plan (introducing facilities, improving processes and controlling waste generation)	• Reduce atmospheric VOC emissions by 30% or more from the FY 2001 level by FY 2011
4 Conducting External Environment Activities	(1) Social Contribution Activities	Global	• Carry out social contribution activities	① Implement environmental actions matched to local needs ② Implement educational activities to raise environmental awareness and future-oriented thinking	• Continue social contribution activities
	(2) Compliance	Global	• Strictly observe all laws and regulations • Accommodate revision of Chemical Substances Control Law (Japan only)	① Implement preventive management based on self-managed standards ② Assess quantities of substances requiring registration	• Intensify implementation of preventive management
5 Promoting the Creation of Environment-Conscious Products	(1) Strictly observe all regulations related to chemical substances used in products (REACH regulation compliance)	Global	• Implement product environment management in compliance with RoHS, REACH, and other international regulations related to chemical substances	① Establish chemical substances database ② Implement a chemical substances management database covering all steps from procurement to marketed product ③ Implement green procurement in compliance with REACH regulation ④ Promote use of alternatives and substitutes for substances with high environmental impact ⑤ Update MSDS to GHS indication	• Strictly observe regulations related to chemical substances in each country (1) REACH regulation (2) Chinese Measures for the Pollution Control of Electronic Information Products (Chinese RoHS) 2nd step (3) Revised Chemical Substances Control Law (4) Update MSDS to 100% GHS indication (compliance management)
	(2) Promote reduction of environmental load throughout entire product life cycle	Global	• Life cycle assessment (LCA) • Establish new standard and perform evaluation	① Establish a new standard for life cycle assessment (LCA) ② Implement LCA for major products ③ Make TDK products compliant with EuP directive	• Promote reduction of environmental load during life cycle of product (1) Assess carbon footprint (2) Assess GHG (greenhouse gases) evaluation
	(3) Establish system for information propagation in supply chain	Global	• Disclose environmental information on products to fully meet customer requirements	① Expand information disclosure and sales of Eco-Logo products ② Disclose information about Substances of Very High Concern (SVHC) in accordance with REACH regulation ③ Comply with environmental load information disclosure in accordance with EuP Directive ④ Participate in information propagation activities in the industry	• Disclose environmental information on products to fully meet customer requirements (1) Disclose information about Substances of Very High Concern (SVHC) in accordance with REACH regulation (2) Comply with environmental load information disclosure in accordance with EuP Directive (3) Ensure full participation in common industry platforms for information disclosure

TDK Environmental Action 2015–Fiscal 2009 Results

Objectives	FY 2009 Targets			Results
	Scope	Target	Major Measures	
1 Preventing Global Warming	(1) Production sites	Global	• Reduce CO ₂ emissions by 3% or more from the FY 2006 level	① Improve energy consumption per unit of products by 1.5% or more year on year CO ₂ emissions increased by 10.1% from the FY 2006 level (3.8% increase from the FY 2008 level)
		Japan	• Reduce CO ₂ emissions by 1% or more from the FY 1991 level	① Improve energy consumption per unit of products by 2.0% or more year on year (1.0% or more reduction year on year in fixed energy consumption) ② Reduce fixed consumption by improving production methods and facilities CO ₂ emissions increased by 5.9% from the FY 1991 level (5.5% decrease from the FY 2008 level)
	(2) Distribution	Global	• Reduce CO ₂ emissions in distribution	① Assess and review the amount of CO ₂ emissions Consider global application of system to assess CO ₂ emissions from product distribution
		Japan	• Reduce CO ₂ emissions by 2% or more from the FY 2007 level	① Improve energy consumption per unit of products by 1.0% or more year on year CO ₂ emissions decreased by 28.4% from the FY 2007 level (16.5% decrease from the FY 2008 level)
2 Managing Waste	Global	• Reduce total waste emissions by 2% or more from the FY 2007 level	① Maintain zero emissions ② Improve waste generation per unit of products by 1.0% or more year on year ③ Promote recycling to produce valuable resources	Total waste emissions decreased by 9.9% from the FY 2007 level (8.5% decrease from the FY 2008 level)
	Japan	• Reduce total waste emissions by 2% or more from the FY 2007 level	① Improve outsourced recycling index by 1.0% or more year on year ② Promote recycling to produce valuable resources	Total waste emissions decreased by 11.0% from the FY 2007 level (14.3% decrease from the FY 2008 level)
3 Managing Environmental Risks (Reduction of atmospheric VOC emissions)	Japan	• Reduce atmospheric VOC emissions by 28% or more from the FY 2001 level	① Implement voluntary action plan (introducing facilities, improving processes and controlling waste generation)	Reduce atmospheric VOC emissions by 33% or more from the FY 2001 level
4 Promoting the Creation of Environment-Conscious Products (Operation of product environmental management systems)	(1) Procurement (Suppliers)	Global	Risk management of chemical substances (Compliance with national and international laws and regulations and REACH)	① Establish chemical substances database ② Update MSDS (reflect the situation in each country) ③ Consider system for information disclosure on chemical substances in products (in compliance with REACH) • Complete the creation of a database for procured chemical products • Implement GHS information propagation for all domestic suppliers (chemical products) Target: 100% up-to-date by 2011
	(2) Design, development and manufacturing	Japan	Reduce environmental load of products throughout their life cycles	① Establish new standard for life cycle assessment (LCA) ② Implement LCA for major products • Take a major role in compiling the "Electronic Component LCA Guide" issued by the Electronic Component Division of Japan Electronics and Information Technology Industries Association (JEITA) • Publish standard LCI data for general electronic components listed below, derived from LCA Japan Forum Multilayer ceramic chip capacitors Multilayer inductors Chip fixed resistors
	(3) Sales (Customers)	Global	Disclose environmental information on products to fully meet customer requirements	① Achieve 100% response rate for customer product environmental survey ② Disclose information in compliance with REACH regulation ③ Establish company-internal briefing and discussion framework regarding REACH • Maintain 100% response rate for customer product environmental survey • REACH regulation: implemented information disclosure for EU market products on substances of very high concern (15 substances) published on October 28
			Expand sales of environment-conscious products	① Produce a catalog (first edition) of environment-friendly products to stimulate sales • Established and publicized a new system to label TDK's environment-conscious products (Eco-Logo products), starting September 2008

Single Fiscal Year Targets

Objectives	FY 2009 Activity Targets			Results
	Scope	Target	Major Measures	
5 Improving the Environmental Management System	Japan	Priority objectives	① Assessment based on management assessment system ② Enhanced system and performance based on EMS assessment system (a) Compliance • Implement preventive management based on self-managed standards Set upper limits (average + 3σ) at 50% or less of statutory values Note: Maintain or improve current NOx and pH levels (b) Environment-conscious communities • Actively participate in environmental conservation activities (at least 30% of employees) • Conduct environmental interaction with local communities (hold an environment-related event at least once a year) (c) Operation of EMS • Set and promote themes that are beneficial to the environment • Configure and maintain effective energy management frameworks (evaluation points 5% or more, inclusion ratio 85% or more) • Develop themes for environmental impact assessment on a CO ₂ conversion basis • Promote on-site performance audits	① Assessment based on management assessment system ② Enhanced system and performance based on EMS assessment system (a) Compliance • One case where pollution levels exceeded the self-measured statutory values (b) Environment-conscious communities • A total of 6,590 employees participated in various environmental conservation activities • Participated in 65 local environmental conservation programs (c) Operation of EMS • Performed activities and set themes at each TDK site • Continued to configure and maintain energy management frameworks • Continued to implement environmental impact assessment on a CO ₂ conversion basis • Performed on-site audits focusing on performance
			① Assessment based on management assessment system ② Continuous improvement based on EMS (a) Compliance • Strictly adhere to laws and regulations • Implement preventive management based on self-managed standards (b) Environmental risk management • Identify chemical substances emitted to the environment (c) Environment-conscious communities • Actively participate in environmental conservation activities (d) Set and promote themes that are beneficial to the environment (e) Implement preventive management based on evaluation of soil risks (f) Implement OHSMS	① Assessment based on management assessment system ② Continuous improvement based on EMS (a) Compliance • One case where pollution levels exceeded the self-measured statutory values • Implemented preventive management based on self-managed standards (b) Environmental risk management • Assessed chemical substance emission quantities (c) Environment-conscious communities • Actively participated in local environmental conservation activities (d) Set and promoted themes that are beneficial to the environment • Performed activities and set themes at each TDK site (e) Implemented preventive management based on evaluation of soil risks • Implemented soil risk evaluation (f) Implemented OHSMS • Implemented OHSMS at 11 new sites (4 sites obtained OHSAS 18001 certification)
	Over-seas	Priority objectives	① Assessment based on management assessment system ② Continuous improvement based on EMS (a) Compliance • Strictly adhere to laws and regulations • Implement preventive management based on self-managed standards (b) Environmental risk management • Identify chemical substances emitted to the environment (c) Environment-conscious communities • Actively participate in environmental conservation activities (d) Set and promote themes that are beneficial to the environment (e) Implement preventive management based on evaluation of soil risks (f) Implement OHSMS	① Assessment based on management assessment system ② Continuous improvement based on EMS (a) Compliance • One case where pollution levels exceeded the self-measured statutory values • Implemented preventive management based on self-managed standards (b) Environmental risk management • Assessed chemical substance emission quantities (c) Environment-conscious communities • Actively participated in local environmental conservation activities (d) Set and promoted themes that are beneficial to the environment • Performed activities and set themes at each TDK site (e) Implemented preventive management based on evaluation of soil risks • Implemented soil risk evaluation (f) Implemented OHSMS • Implemented OHSMS at 11 new sites (4 sites obtained OHSAS 18001 certification)
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