FY2017 Environmental Activities Report

* Scope: Hitachi Transport System and its consolidated domestic group companies (21 firms)

Compliance of laws and ordinances (molucing regulations) Coal Performance 1 Prevent global warming Reduce per-unit energy consumption for buildings 3% reduction to compared to Pr2014 A1% 2 Promote resource recycling Appropriately manage waste Error typ promote waste transmit compliant and ordinances Carried out it souted goal Carried out it souted goal 3 Increase environmental control levels Observe applicable laws and ordinances Correct familing to corray with relevent status of the compliant and ordinances Carried out it souted goal 4 Reduction of environmental burden Reduce vehicle CO2 emissions per mile Six reduction of compared to Pr2014 42.5% 4 Reduction of overall CO2 emissions per mile Six reduction of compared to Pr2014 42.6% 4 Reduction of overall CO2 emissions per unit 27.4 g/m² Reduction of compared to Pr2014 42.6% 5 Prevent global warming Reduce vehicle CO2 emissions per unit 27.4 g/m² Reduction of compared to the percolon it must state appar. 33.86 Prevent global warming A2.6% 5 Prevent global warming Reduce vehicle CO2 emissions per unit 27.4 g/m² Reduce vehicle CO2 emissions per unit 27.4 g/m² Reduce vehicle CO2 emissions p	Nie	Objective	Astice Dise	FY 2017 (s	ee Note 1)		
1 Prevent global warming Reduce per unit energy consumption for buildings 3% reduction to compared to FY2014 A 1%. 2 Promote resource recycling Appropriately manage waste Firmly promote waste with the adaption of compared to FY2014 Corried out if and ordinances Corried out if and or	No	Objective	Action Plan	Goal	Performance		
1 Prevent global warming Neucoid provide relative you was be called a state of particular and parting and particular and particular and particular and particu		· · · · · · · · · · · · · · · · · · ·		3% reduction to			
2 Promote resource recycling Appropriately manage wastle Interface out in this applicable laws and ordinances in this applicable laws and ordinances in the same of applicable laws and ore applicable laws and ordinances in th	1	Prevent global warming	Reduce per-unit energy consumption for buildings		▲1%		
3 Increase environmental control levels Comply with relivant auromobiles, etc. Carried out stated to CFCs, POBs, auromobiles, etc. Carried out stated goal auromobiles, etc. Reduction of environmental burden Reduce vehicle CO2 emissions per mile 3%, reduction to compared to FY2014 +2.5%, experimental, etc. 4 Reduce vehicle CO2 emissions in fiscal 2017; 132,1221, CO2 emissions per building floor space unit; 27.4kgm ² (Group total) *2.6%, emissions per building floor space unit; 27.4kgm ² (Breakdown Area HQ Group; 11,1944, 3) Metapolitan Area HQ Group; 11,1944, 3) Metapolitan Area HQ Group; 11,1944, 3) Metapolitan Area HQ Group; 11,231, 3) Metapolitan Area HQ Group; 11,234, 3) Other Group Companies; 7,0334 Differentiation of uruselyses from competitors with regard ourselyses from competitors with regard precision instrument, eccyclabel products, eduction of total warming Implementated precision instrument, eccyclabel products, eduction of total warming Implementated precision instrument, eccyclabel products, eduction of uruselyses from competitors with regard precision instrument, eccyclabel products, eduction of uruselyses instrument, eccyclabel products, eduction of total warea end group; 2,0501, eductor and total warea end group; 2,4271, 2) Metapolitan Area HQ Group; 2,4274, 2) Metapolitan Area HQ Group; 2,0501, 4) West Japan Area HQ Group; 2,0501	2	Promote resource recycling	Appropriately manage waste	treatment compliant with the applicable laws	Carried out the stated goal		
4 Reduce vehicle CO2 emissions per mile 3% reduction to compared to Pr2014 +2.5% 4 Reduction of overall CO2 emissions (Group total) 1% reduction compared to the previous year ▲2.6% 4 (Group total) Total CO2 emissions in fiscal 2017; 132,122t, CO2 emissions per building floor space unit :27.4kg/m² ▲2.6% (Group total) Total CO2 emissions in fiscal 2017; 132,122t, CO2 emissions per building floor space unit :27.4kg/m² ▲2.6% (Breakdown of total CO2 emissions by group headquarters' areas of jurisdiction) 11 East Japan Area HQ Group; 11,194 ↓ 10 Bit empolitan Area HQ Group; 11,194 ↓ ↓ ↓ 5 Promote modal shift Differentiation of compared shift by readicible products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, etc., and development dec. defects on instruments, recyclicable products, et		levels	Observe applicable laws and ordinances	comply with relevant laws and regulations related to CFCs, PCBs, septic tanks,	Carried out the stated goal		
4 Prevent global warning improve the recycling rate (see Note 3) 99% 99 6% 5 Promote modal shift improve the recycling rate (see Note 3) 99% 99 6% 6 Improve the recycling rate (see Note 3) 99% 99 6% 99 6% 7 Promote resource recycling Improve the recycling rate (see Note 4) 1% reduction (see Note 4) 22% 7 Promote resource recycling Improve the recycling rate (see Note 4) 1% reduction (see 0) 22% 7 Promote resource recycling Improve the recycling rate (see Note 4) 1% reduction (see 0) 22% 7 Metropolitan Area HQ Group : 2.4271 3.3001 1% reduction (see 0) 22% 7 Metropolitan Area HQ Group : 2.4271 3.3031 1% reduction (see 0) 22% 7 Metropolitan Area HQ Group : 2.4271 3.3031 1% reduction (see 0) 22% 7 Metropolitan Area HQ Group : 2.4271 3.3031 1% reduction (see 0) 22% 7 Metropolitan Area HQ Group : 2.4271 3.3031 1% reduction (see 0) 22% 9 Metropolitan Area	Reduct	tion of environmental burden		1	1		
4 Reduction of overall CO2 emissions (Group total) compared to the previous year ▲2.6% 4 (Group total) Total CO2 emissions in fiscal 2017;132,1221, CO2 emissions per building floor space unit; 27.44g/m ² (Breakdown of total CO2 emissions by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group; 37.8971 5 Prevent global warming Differentiation of curselves from compatitors with regard in the do Trice; 23.1491 Differentiation of curselves from compatitors with regard in the do Trice; 24.1491 5 Promote modal shift Differentiation of curselves from compatitors with regard in the transportation of precision instruments; recyclable precision instruments; recyclable precision (Group total) Implementation modal shift by precision instruments; recyclable precision instruments; recyclable precision (Group total) Implementation modal shift 6 Improve the recycling rate (see Note 3) 96% 99.6% 7 Improve the recycling rate (see Note 3) 96% 99.6% 7 Promote resource recycling reduce per-unit water consumption(see Note 4) 1% reduction compared to the previous year 7 Promote resource recycling Reakdown of water wage by Group headquarters' areas of jurisdiction) 128.14gan Area HQ Group; 34.622 (Somah Area HQ Group; 30.9264 (Somah Area HQ Group; 30.92		Prevent global warming	Reduce vehicle CO2 emissions per mile		+2.5%		
4 Total CO2 emissions in fiscal 2017: 132,122, CO2 emissions per building floor space unit; 27.4/sg/m ² (Breakdown of total CO2 emissions by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group; 37.887 2) Metropolitan Area HQ Group; 37.887 2) Metropolitan Area HQ Group; 37.887 3) Midland Japan Area HQ Group; 37.931 5 Prevent global warming 5 Promote modal shift 6 Differentiation of curselves from competitors with regard instruments, recyclable products, excl, and development. (Group total) Waste generated in fiscal 2017; 33.3041 (Breakdown of total waste generated by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group; 2.4271 3) Midland Japan Area HQ Group; 3.0361 (Breakdown of per-unit water usage by Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group; 3.02671 (Breakdown of per-unit water usage by Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group; 3.02741 3) Midland Japan Area HQ Group; 3.02741 4) West Japan Area HQ Group; 3.02741 5) Main Head Office; 3.007241 6) Other Group Companies; 0.0367 3) Midland Japan Area HQ G			Reduction of overall CO2 emissions (Group total)	compared to the	▲2.6%		
5 Promote modal shift competitors with regard to the transportation of precision instruments, recyclable products, etc., and development of new customers and new routes with existing customers implementation modal shift by precision etc., and development of new customers and new routes with existing customers 6 improve the recycling rate (see Note 3) 99% 99.6% (Group total) Waste generated in fiscal 2017 ; 33,304t (Breakdown of total waste generated by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 2,427t 3) Midland Japan Area HQ Group ; 2,205t 4) West Japan Area HQ Group ; 2,205t 6) Other Group Companies ; 1,934t 1% reduction compared to the previous year 42.2% 7 Promote resource recycling 7 (Group total) (Group total) 1% reduction compared to the previous year 42.2% 7 Promote resource recycling 7 West Japan Area HQ Group ; 107.461mi 1) East Japan Area HQ Group ; 107.461mi 1) East Japan Area HQ Group ; 0.082 3) Midland Japan Area HQ Group ; 107.461mi 1) East Japan Area HQ Group ; 0.082 3) Midland Japan Area HQ Group ; 10.04 3) Midland Japan Area HQ Group ; 0.02 3) Midland Japan Area HQ Group ; 0.03 4) West Japan Area HQ Group ; 0.012 5) Main Head Office ; 0.038mini 6) Other Group Companies ; 40,730mi 6) Other Group Companies ; 0.192mini 6) Other Group Companies ; 0.192mini 7) Main Head Office ; 0.038mini 6) Other Group Companies ; 0.192mini 7) Main Head Office ; 0.038mini 8) Main Head Office ; 0.038mini 8) Main Head Offic	4		Total CO2 emissions in fiscal 2017; 132,122t, CO2 emissions per building floor space unit ;27.4kg/m² (Breakdown of total CO2 emissions by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 37,987t 2) Metropolitan Area HQ Group ; 15,336t 3) Midland Japan Area HQ Group ; 11,194t 4) West Japan Area HQ Group ; 31,423t 5) Main Head Office ; 29,149t				
6 Group total) 6 (Group total) 7 (Group total) 8 (Group total) 9 (Group total) 1	5		Promote modal shift	ourselves from competitors with regard to the transportation of precision instruments, recyclable products, etc., and development of new customers and new routes with existing	railways for		
6 Waste generated in fiscal 2017 ; 33,304t (Breakdown of total waste generated by group headquarters' areas of jurisdiction) 6 1) East Japan Area HQ Group ; 2,427t 3) Midland Japan Area HQ Group ; 2,905t 4) West Japan Area HQ Group ; 8,462t 5) Main Head Office ; 7,865t 6) Other Group Companies ; 1,934t 7 reduce per-unit water consumption(see Note 4) 1% reduction compared to the previous year (Group total) water usage ; 333,803ml (Breakdown of water usage by Group headquarters' areas of jurisdiction) (Breakdown of per-unit water usage by Group headquarters' areas of jurisdiction 1) East Japan Area HQ Group ; 107,461ml 2) Metropolitan Area HQ Group ; 34,622ml 3) Midland Japan Area HQ Group ; 33,63ml 4) West Japan Area HQ Group ; 33,674ml 5) Main Head Office ; 50,072ml 6) Other Group Companies ; 40,730ml 6) Other Group Companies ; 40,730ml 6) Other Group Companies ; 0.192ml/ml 3) Midland Japan Area HQ Group ; 0.0137 ml			Improve the recycling rate (see Note 3)	99%	99.6%		
Promote resource recycling reduce per-unit water consumption(see Note 4) compared to the previous year ▲2.2% (Group total) water usage ; 333,803m² (Breakdown of water usage by Group headquarters' areas of jurisdiction) (Breakdown of per-unit water usage by Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 107,461m² 1) East Japan Area HQ Group ; 0.096m² 2) Metropolitan Area HQ Group ; 34,628m² 2) Metropolitan Area HQ Group ; 0.082 3) Midland Japan Area HQ Group ; 83,574m² 3) Midland Japan Area HQ Group ; 0.082 6) Other Group Companies ; 40,730m² 4) West Japan Area HQ Group ; 0.103m² 6) Other Group Companies ; 40,730m² 4) West Japan Area HQ Group ; 0.192m²m²	6	Waste generated in fiscal 2017 ; 33,304t (Breakdown of total waste generated by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 9,711t 2) Metropolitan Area HQ Group ; 2,427t 3) Midland Japan Area HQ Group ; 2,905t 4) West Japan Area HQ Group ; 8,462t 5) Main Head Office ;7,865t					
Promote resource recycling water usage : 333,803m² (Breakdown of water usage by Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group : 107,461m² 1) East Japan Area HQ Group : 0.096m² 2) Metropolitan Area HQ Group : 34,628m² 2) Metropolitan Area HQ Group : 0.082m² 3) Midland Japan Area HQ Group : 83,574m² 3) Midland Japan Area HQ Group : 0.072m² 6) Other Group Companies : 40,730m² 4) West Japan Area HQ Group : 0.103m² 7) 6) Other Group Companies : 40,730m²		Promote resource recycling	reduce per-unit water consumption(see Note 4)	compared to the	▲2.2%		
8 Raise green purchasing percentages (see Note 5) 90% 90.0%	7		water usage ; 333,803m ¹ (Breakdown of water usage by Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 107,461m ¹ 2) Metropolitan Area HQ Group ; 34,628m ¹ 3) Midland Japan Area HQ Group ; 17,338m ¹ 4) West Japan Area HQ Group ; 83,574m ¹ 5) Main Head Office ; 50,072m ¹	4) West Japan Area HQ Group ; 0.103㎡/m			
	8		Raise green purchasing percentages (see Note 5)	90%	90.0%		

9 Percent of the second s					
Image: services vehicles) (see Note 6) (Compare new model eco-friendly vehicles)(see Note 6) 90% 10 Boost environmental actions for logistics services 1) Promote nanagers (Inplement eco-friendly driving (Implement eco-friendly driving e- during FIT) 1) Promote nanagers (2) Group owner drivers 2) Group owner drivers 1) 100° (2) Group owner drivers (2) Group owner drivers (2) Group owner drivers 1) 100° (2) Group owner drivers (2) Group owner drivers (2) Group owner drivers 1) 100° (2) 93.0 11 Preserve biodiversity and ecosystems Protect forest resources Reduce copy paper consumption by % or more compared with the previous year 2.2.3.0 12 Implement ignities Enhance communication with employees (environmental enlightenment activities) Distribute environmental information for employees (once a month) Carried ou stated gr environmental information for environmental stated gr Participation (once a month) Participation (once a month) 14 Continue social action projects on the environment environmental (thprove information disclosure) Apply for environmental ads, disclose environmental ads, disclose environmental ads, disclose environmental ads, disclose environmental environmental management Carried ou stated gr environmental environmental management Carried ou stated gr environmental environmental environmental management Carried ou stated gr environmental ads, disclose environmental environmental management Carried ou stated gr environm			Replace vehicles with eco-friendly ones having better		100%
10 logistics services Promote con-friendly driving (implement con-friendly driving re-education) 1) Promotion managers 2) Group owner drivers (all) (To be completed during FY) 1) 100: 2) Group owner drivers (all) (To be completed during FY) 11 Preserve biodiversity and environment drivers Protect forest resources Reduce copy paper comorbing the provide with the provide during FY) (a) 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	9			eco-friendly	90%
11 Preserve biodiversity and ecosystems Protect forest resources consumption by 1% or more compared with the previous year (Equivalent (Equivalent paper) 12 Education & communication Enhance communication with employees (environmental enlightenment activities) Distribute invironmental information for employees (once a month) Carried ou stated gr promote communication on the environment Carried ou stated gr promote communication on the environment Participation (once a month) implement lights-off or stated gr outside our location (once a month) Participation clean-up activity place and in area, implement lights-off or stated gr outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation (once a month) 14 Implement more public relations projects on the environment (Improve information disclosure) Apply for environmental information disclosure Par	10		(Implement eco-friendly driving re-education) 1) Promotion managers	(To be completed during H1) 2) Group owner drivers (all) (To be completed	1) 100% 2) 83.0%
12 Image: Distribute environmental enlightenment activities) Distribute environmental information for environmental enlightenment activities) Carried ou stated ge environmental information for environmental information for environmental information and the start environment Participation clean-up activity outside our location outside our location for environment Participation clean-up activity environment Participation clean-up activity outside our location for environment Participation clean-up activity environmen		ecosystems	Protect forest resources	consumption by 1% or more compared with	▲2.9% (Equivalent to A4 paper)
12 Image: Continue social action projects on the environmental environmental environmental environmental information for employees (once a month) Carried ou stated grammatication on the environment environment 13 Promote communication on the environment Continue social action projects on the environment environment Clean-up activity outside our location (once a month) implement lights-off or the summer solar amonth) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a month) Participation clean-up activity outside our location (once a	Educa	tion & communication		Ι	
13 Promote communication on the environment Continue social action projects on the environment Clean-up activity outside our location of our we place and in area, implement lights-off (twice a year) Clean-up activity outside our location of twice a year) Clean-up activity outside our location on the environment Clean-up activity outside our location or location projects on the environment industrial. Clean-up activity outside our location of the environment industrial. Clean-up activity outside our location of the environment industrial. Clean-up activity outside our location of the environment industrial. Clean-up activity outside our location of the environment industrial. Clean-up activity outside our location of the environment industrial. Apply for environmentally relevant awards, ere sold and the Star green wall, e company (se 2), information disclosure or website. 14 Implement more public relations projects on the environment information disclosure or environmental ads, disclose information, etc. Winning 3 average environmental ads, disclose environmental environmental management Specific addition of the environmental addition of the environmental environmental environmental environmental environmental environmental management through the environmental business operation system "Eco-Stage" Undertake activities led by Main Office [Creen Logistics Promotion Department] Acquired "Eco-Stage" 17 Increase environmental business operation system "Eco-Stage" Undertake activities led by Main Office [Creen Logistics Promotion D	12			environmental information for employees (once a	Carried out the stated goal
14 Apply for environmentally relevant awards, release environmental awareness Implement more public relations projects on the environment (Improve Information disclosure) Apply for environmentally relevant awards, release environmental ads, disclose information, etc. from groups outside the company (se 2), information disclosure or website 15 Raise environmental awareness Boost attendance for e-learning courses on the environment 95% 99.8% 16 Use the "Energy-saving Inspection Sheet" to promote improved operations [domestic] (Once per half year) Implemented Carried ou stated gr (424 locati (424 locati [domestic]] 17 Increase environmental control levels Promote environmental management through the environmental business operation system "Eco-Stage" [domestic] Undertake activities led by Main Office [Green Logistics Promotion Department] Acquired "Eco Stage 2" certification in 2017	13		Continue social action projects on the environment	outside our location (once a month) Implement lights-off	Participation in clean-up activity around our work place and in the area, implement lights-off on the summer solstice and the Star Festival, install green wall, etc.
Environmental management Environmental management 16 Use the "Energy-saving Inspection Sheet" to promote improved operations [domestic] (Once per half year) Implemented Carried ou stated gr (424 location in the state	14			environmentally relevant awards, release environmental ads, disclose	outside the company (see Note 2), information disclosure on the
16 Use the "Energy-saving Inspection Sheet" to promote improved operations [domestic] (Once per half year) Implemented Carried ou stated gr (424 locati 17 Increase environmental control levels Promote environmental management through the environmental business operation system "Eco-Stage" [domestic] Undertake activities led by Main Office [Green Logistics Promotion Department] Acquired "Eco-Stage" 2" certification in 2017	15	Raise environmental awareness	Boost attendance for e-learning courses on the environment	95%	99.8%
16 Increase environmental control Increase environmental control Promote environmental management through the environmental business operation system "Eco-Stage" Undertake activities led by Main Office [Green Logistics Promotion Department] Acquired "Eco-Stage" 17 Promote the issuing of "electronic manifesto" on industrial Promote the issuing of "electronic manifesto" on industrial Undertake activities led by Main Office [Green Logistics Promotion Department] Acquired "Eco-Stage"	Enviro	nmental management		· · · · · · · · · · · · · · · · · · ·	·
17 levels by Main Office [Green Logistics Promotion] Stage 2" certification in Department] 17 levels Promote the issuing of "electronic manifesto" on industrial by Main Office [Green Logistics Promotion Department] Stage 2" certification in 2017	16				Carried out the stated goal (424 locations)
Promote the issuing of "electronic manifesto" on industrial 40000	17		environmental business operation system "Eco-Stage"	by Main Office [Green Logistics Promotion	certification in FY
18 waste 100% 100%	18			100%	100%

Note 1: The figures are on a consolidated Hitachi Transport System Group basis

Note 2: Awards from groups outside the company .

1) 18th Logistics Environment Awards (Logistics environmental impact mitigation techniques Development Award) ; Japan Association for Logistics and Transport Sponsored .

Subject ; Efforts of recycled resources goods transport of modal shift 2) 4th Modal shift initiatives excellent business Award (new business development department) ; Japan Association for Logistics and Transport sponsored .

Subject ; Railway long-distance modal shift of precision equipment (banking terminal)

3) Japan Packaging Contest 2017 Appropriate Packaging Award ; Japan Packaging Institute sponsored .

Note 3: Recycling Rate = (Reuse Amount + Recycling Amount + Heat Recovery Amount) / Total Emissions Note 4: per-unit water consumption (water usage per total floor space).

* We changed the target from total amount to basic unit. Note 5: Green Purchasing Rate: the ratio of office supplies purchased at the e-sourcing MALL (an electronic purchasing system) that are environmentally-friendly products .

Note 6) New eco-car categories: Compressed natural gas vehicles, hybrid vehicles, electric vehicles, liquefied petroleum gas (LPG) vehicles (including dual fuel use), "Fuel-efficient vehicles (2010 fuel efficiency standards)" and "Low-emission vehicles (2005 regulations)" recognized as such by the national government, "Post new long-term regulation vehicles (2009 regulations), fuel cell vehicles, and biofuel vehicles.