## FY2018 Environmental Activities Report

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

No	Objective	Action Plan	FY 2018 (	see Note 1)			
			Target	Performance			
Compl	Compliance of laws and ordinances (including regulations)						
1	Prevent global warming	Reduce per-unit energy consumption for buildings	4% reduction to compared to FY2014	+0.9%			
2	Promote resource recycling	Appropriately manage waste	Firmly promote waste treatment compliant with the applicable laws and ordinances	Carried out the stated goal			
3	Increase environmental control levels	Observe applicable laws and ordinances	Correct handling to comply with relevant laws and regulations related to CFCs, PCBs, septic tanks, automobiles, etc.	Carried out the stated goal			
Reduc	tion of environmental burden						
	Prevent global warming	Improve vehicle mileage by vehicle type (reduce CO2 emissions) [compared to FY2014] Fuel consumption by vehicle type (km/L) (Large, medium and small)	+4.0%	+1.2%			
		Reduction of overall CO <sub>2</sub> emissions (Group total)	_	▲1.5%			
4		(Group total) Total CO <sub>2</sub> emissions in fiscal 2018; 127,561t, CO <sub>2</sub> emissions per building floor space unit ;26.2kg/m <sup>2</sup> (Breakdown of total CO <sub>2</sub> emissions by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 37,867t 2) Metropolitan Area HQ Group ; 13,550t 3) Midland Japan Area HQ Group ; 10,923t 4) West Japan Area HQ Group ; 30,210t 5) Main Head Office ; 28,480t 6) Other Group Companies ; 6,531t					
5		Promote modal shift	New client which wrok on differentiation form competitive, precision instruments, recyclable resources etc and promote development of exsiting customer new routes	Implemented railroad modal shift of precision instrument, etc. (see Note 2 1,2)			
6		Promote introduction of LED lighting fixtures	Full use of LED lighting in new buildings Switching from existing mercury or fluorescent lamps	Carried out the stated goal			

7						
7         Wast generated in fiscal 2018: 30.527 (Breakdown of Neth Work 10, 8824) 3) Midland Japan Area HQ Group: 2.8201 4) West Japan Area HQ Group: 2.8201 4) West Japan Area HQ Group: 2.8201 4) West Japan Area HQ Group: 3.8111 5) Other Group Companies: 2,2101         1% reduction compared to the periods year           8         Pomote resource recycling 4) West Japan Area HQ Group: 1.8201 (Group total) Water usage: 540.120H (Group total) Water usage: 540.22H (Group total) (Group work total of total) (Group work mater usage: 540.22H (Group total) (Group work mater usage: 540.22H (Group total) (Group work mater usage: 540.22H (Group total) (Group work mater usage: 540.24H (Group total) (Group work mater usage: 540.24H (Group total) (Group work mater usage: 540.24H (Group total) (Group total) (G			Improve the recycling rate (see Note 3)	99%	99.4%	
Promote resource recycling         reduce per-unit water consumption(see Note 4)         compared to the previous year         A 1.9%,           8         (Group total)         (Group t	7		Waste generated in fiscal 2018 ; 30,527t (Breakdown of total waste generated by group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 8,824t 2) Metropolitan Area HQ Group ; 1,479t 3) Midland Japan Area HQ Group ; 2,820t 4) West Japan Area HQ Group ; 8,311t 5) Main Head Office ;6,883t			
8         water usage : 340,128 <sup>-1</sup> (Breakdown of water usage by Group headquatters' area of jurisdiction)         (Breakdown of of jurisdiction)           1) East Japan Area HQ Group : 113,208 <sup>-1</sup> (Minisdiction)         (Breakdown of jurisdiction)         (Breakdown of jurisdiction)           1) East Japan Area HQ Group : 37,201 <sup>-1</sup> (Minisdiction)         (Breakdown of jurisdiction)         (Breakdown of jurisdiction)           2) Metropolitan Area HQ Group : 14,930 <sup>-1</sup> (Minisdiction)         (Breakdown of jurisdiction)         (Breakdown of jurisdiction)           3) Midland Japan Area HQ Group : 14,930 <sup>-1</sup> (Minisdiction)         (Breakdown of jurisdiction)         (Breakdown of jurisdiction)           4) West Japan Area HQ Group : 0.097 <sup>-1</sup> / <sup>1</sup> / <sup>1</sup> / <sup>1</sup> (Breakdown of jurisdiction)         (Breakdown of jurisdiction)           9         Raise green purchasing percentages (see Note 5)         90 <sup>-1</sup> / <sub>1</sub> (Breakdown)           10         Boost environmental actions for logistics services         (Compare exordial)         (Breakdown)           11         Continue to promote eco-friendly driving (mplemented to cotinue eco-friendly driving re-education)         Group owner drivers (al)         100 <sup>+6</sup> / <sub>1</sub> 12         Preserve biodiversity and ecosystems         Enhance communication with employees ("environmental information about significance and current state of environmental knowledge         Be actively involved in environment         2.4 <sup>+6</sup> / <sub>1</sub> 14         Promote comm				compared to the	▲1.6%	
10       Replace vehicles with eco-friendly ones having better environmental performance (new model eco-friendly vehicles)100%       100%         10       Boost environmental actions for logistics services       Continue to promote eco-friendly driving (mplemented to cotinue eco-friendly driving re-education)       Group owner drivers (all)       93%         11       Continue to promote eco-friendly driving re-education)       Group owner drivers (all)       100%         12       Preserve biodiversity and ecosystems       Protect forest resources       Reduce copy paper consumption by 1% or more compared with the previous year       2.4%         13       Education & communication       Enhance communication with employees (*environmental enlightenment activities)       Distribute environmental information for environmental environmental environmental environmental activities       Carried out the stated or environmental activities         14       Promote communication on the environment       Continue to carry out social action projects on the environmental information for environmental (mistry of the Environmental environment)       Participate in the Light-Down Carapaign advocated by the Ministry of the Environmental information disclosure)       Participate in the Light-Down Carapaign advocated by the Ministry of the Environmental information disclosure)       Apply for myroing on ting as wards from groups outside the company (see Note 2), information disclosure         15       Implement more public relations projects on the environment       Apply for myroing outside the company (see myroin the existing inform	8		<ul> <li>water usage ; 340,129m<sup>1</sup></li> <li>(Breakdown of water usage by Group headquarters' areas of jurisdiction)</li> <li>1) East Japan Area HQ Group ; 113,209m<sup>1</sup></li> <li>2) Metropolitan Area HQ Group ; 37,201m<sup>1</sup></li> <li>3) Midland Japan Area HQ Group ; 14,930m<sup>1</sup></li> <li>4) West Japan Area HQ Group ; 83,267m<sup>1</sup></li> <li>5) Main Head Office ; 46,387m<sup>1</sup></li> </ul>	Group headquarters' areas of jurisdiction) 1) East Japan Area HQ Group ; 0.094m <sup>3</sup> /m <sup>4</sup> 2) Metropolitan Area HQ Group ; 0.088m <sup>3</sup> /m <sup>4</sup> 3) Midland Japan Area HQ Group ; 0.052m <sup>3</sup> /m <sup>4</sup> 4) West Japan Area HQ Group ; 0.097m <sup>3</sup> /m <sup>4</sup> 5) Main Head Office ; 0.081m <sup>3</sup> /m <sup>4</sup>		
10     Replace vehicles with eco-friendly ones having better invironmental performance (new model eco-friendly vehicles) (see Note 6)     Compare new model eco-friendly vehicles)100%     100%       11     Boost environmental actions for logistics services     Continue to promote eco-friendly driving (Implemented to cotinue eco-friendly driving re-education)     Group owner drivers (al)     100%       12     Preserve biodiversity and ecosystems     Protect forest resources     Reduce copy paper more compared with the previous year     A2.4% (Equivalent to A4 paper)       13     Enhance communication with employees (*environmental enlightenment activities) 2) Improvement of environmental activities 2) Improvement of environmental knowledge     Distribute environmental information for employees     Carried out the stated goal       14     Promote communication on the environment     Continue to carry out social action projects on the environment     Be actively involved in clean-up activities outside your location participate in the Light- Down Campaign advocated by the Ministry of the Environment     Participation in clean- up activity around our work place and in the avear)       15     Implement more public relations projects on the environmental (Improve Information disclosure)     Apply for eventor     Apply for your compaina adviction advocated propus outside our location projects on the environmental adviction and the start disticand from atorone the start festival, install green wall, etc. information disclosure	9		Raise green purchasing percentages (see Note 5)	90%	88.3%	
Boost environmental actions for logistics services         (see Note 6)         (compare new model eco-friendly vehicles)92%         93%           11         logistics services         Continue to promote eco-friendly driving (mplemented to cotinue eco-friendly driving re-education)         Group owner drivers (all)         100%           12         Preserve biodiversity and ecosystems         Protect forest resources         Reduce copy paper consumption by 1% or previous year         2.4%           13         Education & communication         Enhance communication with employees (*environmental enlightenment activities)         Distribute environmental information for employees         Carried out the state goal         Carried out the state goal           14         Promote communication on the environment         Continue to carry out social action projects on the environment (wice a year)         Be actively involved in clean-up activities outside your location Participate in the Light- state of environmental advocated by the Ministry of the Environment (wice a year)         Participation in clean- up activity around our era, implement ights-off on the stare festival, install green wall, etc.           15         Implement more public relations projects on the environmental (improve Information disclosure)         Apply for environmental ads, disclose information, etc.         Winning 3 awards release environmental ads, disclose information, etc.	10			vehicles)100%	100%	
11     Continue to promote eco-friendly driving (implemented to cotinue eco-friendly driving re-education)     Group owner drivers (all)     100% Implemented       12     Preserve biodiversity and ecosystems     Protect forest resources     Reduce copy paper consumption by 1% or more compared with the previous year     A2.4% (Equivalent to A4 paper)       13     Enhance communication with employees (*environmental enlightenment activities) 1) Provision of information about significance and current state of environmental activities 2) Improvement of environmental knowledge     Distribute environmental information for employees     Carried out the statec goal       14     Promote communication on the environment     Continue to carry out social action projects on the environment     Be actively involved in clean-up activities outside your location Participation in clean- up activity around our work place and in the area, implement environment     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.       15     Implement more public relations projects on the environmental ads, disclose information, etc.     Winning 3 awards from groups outside the company (see Note 2), information disclosure)	-			eco-friendly	93%	
12     Preserve biodiversity and ecosystems     Protect forest resources     consumption by 1% or more compared with the paper)     (Equivalent to A4 paper)       Education & communication     Enhance communication with employees (*environmental enlightenment activities)     Distribute environmental information about significance and current state of environmental activities     Distribute environmental information for employees     Carried out the state of environmental activities       14     Promote communication on the environment     Continue to carry out social action projects on the environment (twice a year)     Be actively involved in clean-up activities outside your location work place and in the summer solstice and the Star Festival, install green wall, etc.       15     Implement more public relations projects on the environmental disclosure)     Apply for environmental activities ayear)	11	logistics services				
13       Enhance communication with employees (*environmental enlightenment activities)       Distribute environmental information for employees       Carried out the stated goal         14       Promote communication on the environment       Continue to carry out social action projects on the environment (twice a year)       Be actively involved in clean-up activities outside your location Participate in the Light Down Campaign advocated by the Ministry of the Environment (twice a year)       Participation in clean-up activities outside your location projects on the environment (twice a year)       Participation in clean-up activities outside your location projects on the environment (twice a year)       Participation in clean-up activities outside your location projects on the environment (twice a year)       Participation in clean-up activities outside your location projects on the environment (twice a year)         15       Implement more public relations projects on the environment (Improve Information disclosure)       Apply for environmental add, disclose environmental data das, disclose information, etc.       Winning 3 awards for may go utside the company (see Note 2), information disclosure		ecosystems	Protect forest resources	consumption by 1% or more compared with the	(Equivalent to A4	
13       enlightenment activities)       1) Provision of information about significance and current state of environmental activities       environmental information for employees       Carried out the state of goal         14       Promote communication on the environment       Continue to carry out social action projects on the environment (twice a year)       Be actively involved in clean-up activities outside your location Participate in the Light Down Campaign advocated by the Ministry of the Environment (twice a year)       Participation in clean-up activities outside your location projects on the environment (twice a year)       Winning 3 awards from groups outside the company (see Note 2), information disclosure)	Educat	ion & communication		1	1	
14       Promote communication on the environment       Continue to carry out social action projects on the environment       clean-up activities outside your location Participate in the Light Down Campaign advocated by the Ministry of the Environment (twice a year)       um activity around our work place and in the area, implement lights-off on the summer solstice and the Star Festival, install green wall, etc.         15       Implement more public relations projects on the environment (Improve Information disclosure)       Apply for environmentally relevant awards, release environmental ads, disclose linformation, etc.       Winning 3 awards from groups outside the company (see Note 2), information disclosure)	13		enlightenment activities) 1) Provision of information about significance and current state of environmental activities	environmental information for	Carried out the stated goal	
15       Implement more public relations projects on the environmentally (Improve Information disclosure)       environmentally relevant awards, release environmental ads, disclose information, etc.       from groups outside the company (see Note 2), information disclosure on the website	14			clean-up activities outside your location Participate in the Light- Down Campaign advocated by the Ministry of the Environment (twice a	up activity around our work place and in the area, implement lights-off on the summer solstice and	
16       Raise environmental awareness       Boost attendance for e-learning courses on the environment       95%       99.8%	15			environmentally relevant awards, release environmental ads, disclose	from groups outside the company (see Note 2), information disclosure	
	16	Raise environmental awareness	Boost attendance for e-learning courses on the environment	95%	99.8%	

Environmental management							
17	Increase environmental control levels	Establish an "Environmental Enphasis Theme" to facilitate environmental activities	(Once per half year) Implemented	Carried out the stated goal ( <b>392</b> locations)			
18		Use the "Energy-saving Inspection Sheet" to promote improved operations	(Once per half year) Implemented	Carried out the stated goal ( <b>282</b> locations)			
19		Promote environmental management through the environmental business operation system "Eco-Stage"	Undertake activities led by Main Office [Green Logistics Promotion Department]	Acquired "Eco-Stage 2" certification in FY 2017			
20		Promote the issuing of "electronic manifesto" on industrial waste	100%	100%			

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

Note 2: Awards from groups outside the company .

1) 19th Logistics Environment Award, Logistics Environmental Impact Reduction Technology Development Award : Hosted by Japan Association for Logistics and Transport.

Subject: Promoting the reduction of environmental impact by expanding the modal shift in precision equipment transportation.

- 2) 2018 Excellent Business Entities Working on Modal Shift: Award for Excellent Business Entities (Effective use category)
   : Hosted by Japan Association for Logistics and Transport.
  - Subject: From Tokyo to the Hokkaido and Osaka, Modal shift in supplies for stores.

3) Japan Packaging Contest 2018 Large and Heavy Duty Packaging Category Award : Hosted by Japan Packaging Institute.

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) .

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 (2015 fuel efficiency standards)" and "Low-emission vehicles (2005 regulations)" recognized as such by the national government, "Post new long-term regulation vehicles (2016 regulations), fuel cell vehicles, and biofuel vehicles.