

## Progress Report on Environmental Targets

### FY2021/ FY2017 Targets and FY2015 Results

Category of environmental conservation activities	Performance indicators	Targets to be met by FY2021	Results for FY2015
Measures to prevent global warming	Energy consumption from railway business activities	8% reduction (MJ: relative to FY2011 level) 52.7⇒48.5 (billion MJ)	3.0% reduction 51.1 (billion MJ) ☆
	CO <sub>2</sub> emissions per unit of electricity generated at JR East's own power plants	30% improvement (kg-CO <sub>2</sub> /kWh: relative to FY1991 level) 0.457⇒0.320(kg-CO <sub>2</sub> /kWh)	39% improvement 0.278 (kg-CO <sub>2</sub> /kWh) ☆
Category of environmental conservation activities	Performance indicators	Targets to be met by FY2017	Results for FY2015
Measures to prevent global warming	Electricity used for railway operations per unit of transport volume	5.9% Reduction on Shinkansen and Conventional Lines (kWh/car-km: relative to FY2011 level) Shinkansen: 2.71⇒2.55 (kWh/car-km) Conventional Lines: 1.65⇒1.55 (kWh/car-km)	Shinkansen: 7.3% reduction ☆ 2.51 (kWh/car-km) Conventional Lines: 6.4% reduction ☆ 1.55 (kWh/car-km)
	Energy consumption per unit of floor area at branch offices, etc.	15% Reduction (kL-crude oil equivalent/m <sup>2</sup> : relative to FY2011 level) 0.0467⇒0.0397 (kL-crude oil equivalent/m <sup>2</sup> )	16.7% reduction 0.0389 (kL-crude oil equivalent/m <sup>2</sup> ) ☆
	Implementation of more ecoste Model Stations	Total of 8 Stations	Total of 4 Stations (5 stations as of July 1, 2015)
	Change to LED for Platform Illumination (FY2015 – FY2017)	More than 50% of the lighting equipment is switched to LED at 60 stations	32 Stations
	Optimization of Large-scale Air-conditioning Systems (FY2015 – FY2017)	5 Locations (reduction of 47 million MJ)	1 Location (reduction of 1.46 million MJ)
	Reduction Rate of Energy Consumption Intensity Established by Each JR East Group Company	Continuous reduction at an annual rate of 1% on average Group-wide	1.7% reduction (relative to FY2014 level)
Measures for resource circulation	Recycling rate for waste generated at stations and on trains	94%	94% ☆
	Recycling rate for waste generated at General Rolling Stock Centers, etc.	96%	96% ☆
	Recycling rate for waste generated in construction projects	96%	95% ☆
	Implementation Rate of Recycling by Group companies	100%	100%
Environmental activities along railway lines	Measures to reduce noise to 75 dB or less along the Tohoku and Joetsu Shinkansen Lines* (for areas subject to noise limitation measures)	[Targets to be met by FY2016] 100%	Being implemented
Environmental management	Setting of numeric targets by all group companies	Targets to be revised continually	Established

■ Targets for Group companies

\* Measures to reduce noise to 75 dB or less have been completed in the designated areas in accordance with government guidance. Currently, improvement work is being carried out in stages in other areas, to be completed by the fiscal year ending March 2016.