

## Concept for Establishing FY2017 Targets

Of “Environmental Targets for FY2015 and Beyond” (page 23), the targets that have been newly established as targets to be met by FY2017 are based on the following concept.

**[FY2017 target] Electricity used for railway operations per unit of transport volume: 5.9% reduction on both 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)**

Approximately 80% of the energy consumed by JR East is accounted for by energy used in railway operations. A significant portion of that is electricity required to operate trains, and in order to achieve a reduction in energy consumption, we must steadily achieve a reduction in this area. In the case of FY2014 targets, Shinkansen and conventional lines were managed collectively; however, in anticipation of the opening of the Hokuriku Shinkansen at the end of FY2015, Shinkansen and conventional lines will be managed independently with respect to FY2017 targets. Based on the concept of the Energy Saving Act, we have set the target at 1% reduction for each consecutive year.

**[FY2017 target] 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>)**

While reducing energy consumed through railway operations, it is also necessary to work to reduce energy consumed at branch office buildings. As a result of the introduction of high-efficiency devices and electricity conservation following the earthquake, we succeeded in achieving a reduction of 12% in FY2013. The goal established this term, based on planning for energy-efficient facilities and continuation of existing electricity-conservation measures, is to continually reduce energy intensity at an annual rate of 1% in line with the idea of the Energy Saving Act.

**[FY2017 target] Implementation of more ecoste Model Stations – Total of 8 Stations**

As of March 2014, there are 3 ecoste model stations in our network (Yotsuya, Hiraizumi, Kaihinmakuhari). Going forward, through studies and design, we will aim to develop 5 more stations.

**[FY2017 target] Change to LED for Platform Illumination (2015 – within FY2017); More than 50% of the lightning equipment is switched to LED at 60 Stations**

Based on the assumption that the replacement schedules for platform illumination can differ based on direction, we will establish 50% or more as the standard. Going forward, through the steady implementation of replacement, we will aim to introduce LED lighting at more than 50% of an additional 60 stations.

**[FY2017 target] Optimization of Large-scale Air-conditioning Systems (2015 – within FY2017); 5 Locations**

As the energy-reduction effect of the optimization of large-scale air-conditioning systems is significant, we will aim to conduct studies and design, and to achieve optimization at 5 locations.

**[FY2017 target] Reduction Rate of Energy Consumption Intensity Established by Each JR East Group Company; Continuous reduction at an annual rate of 1% on average Groupwide**

In accordance with the Energy Saving Act, we have established a target of an average annual reduction of 1% (FY2015 – FY2017). Each JR East Group company is required to establish its own energy intensity indicator, which should be closely related to the indicator already established under the Energy Saving Act.

**[FY2017 target] Recycling Rate for All Waste**

With regard to the recycling rate for all waste, in accordance with the achievement of the desired recycling rate in FY2014, the numeric value will not be reduced – we have decided to set the numeric target increasingly higher and continue to conduct activities centered around the 3Rs toward the realization of a recyclable society.

**[FY2017 target] Implementation Rate of Recycling by Group Companies-100%**

For trash and industrial waste generated by all group companies, we intend to achieve this objective through various means of recycling. We aim to achieve a 100% recycling rate by FY2017.

**[FY2017 target] Setting of Numeric Targets by All Group Companies**

All group companies, in accordance with the characteristics of their operations, will establish their own targets and conduct activities toward their achievement.