

What is to be accomplished in FY 2002 toward FY 2005 goals?

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JR East has established environmental goals to be met by FY 2005.

Each year we review performance (on a qualitative and quantitative basis), looking for ways to achieve the goals.

As for tasks which remain in our environmental conservation activities, we develop strategies to find solutions and create the improvements in the following fiscal year.

| Environmental conservation activity category | Main activities | FY 2005 Goals | | FY 2001 Achievement | FY 2002 Achievement () actual number | Evaluation | Reference pages |
|--|---|--|-----------------------------------|--------------------------------------|--|--|-----------------|
| | | Reference value (FY 1990) | Target value | | | | |
| Environmental conservation along railway lines | <ul style="list-style-type: none"> Continue noise reduction measures along <i>Shinkansen</i> and conventional lines (constructing sound barriers, installing continuous-welded rails, etc.) Reduce environmental pollutants from the dedicated Kawasaki Thermoelectric Power Plant Eliminate incinerators Conduct appropriate management and treatment of organic solvents, etc. | <ul style="list-style-type: none"> Reduction of noise to 75dB or less in designated residential areas along the <i>Tohoku</i> and <i>Joetsu Shinkansen</i> Lines | — | 100% (to be completed in FY 2002) | 75% | 100% | 36-38 |
| | | <ul style="list-style-type: none"> NOx emissions at dedicated thermal plants | 994 tons | 60% reduction | 62% reduction | 60% reduction (399 tons) | |
| Global environmental conservation | <ul style="list-style-type: none"> Introduce energy-efficient railcars Increase energy conservation at stations and office buildings (introduce co-generation) Promote intermodal transportation (Park & Ride, Rail & Rent-a-Car, etc.) | <ul style="list-style-type: none"> Total CO₂ emissions from general business activities | 2.76 million tons-CO ₂ | 20% reduction | 17% reduction | 16% reduction (2.32 million tons-CO ₂) | 27-31, 36 |
| | | <ul style="list-style-type: none"> CO₂ emissions in proportion to unit electric power generation at dedicated thermal plants | 726 g-CO ₂ /kWh | 30% reduction | 26% reduction | 29% reduction (519 g-CO ₂ /kWh) | |
| | | <ul style="list-style-type: none"> Ratio of energy-efficient railcars | — | 80% | 63% | 68% | |
| | | <ul style="list-style-type: none"> Energy consumption for train operations in proportion to unit transportation volume | 20.6 MJ/car-km | 15% reduction | 9% reduction | 10% reduction (18.6 MJ/car-km) | |
| Resource-recycling | <ul style="list-style-type: none"> Reduce and recycle waste generated at stations and on trains (categorized collection, establishment of recycling centers, etc.) Recycle train tickets and commuter passes Recycle waste generated at rolling stock maintenance facilities and construction projects Recycle newspaper collected at stations, and introduce recycled office paper, etc. | <ul style="list-style-type: none"> Station/train waste recycling rate | — | 40% | 36% | 37% | 33-35 |
| | | <ul style="list-style-type: none"> Rolling stock maintenance facilities waste recycling rate | — | 75% | 71% | 74% | |
| | | <ul style="list-style-type: none"> Construction project waste recycling rate | — | 85% | 76% | 84% | |
| | | <ul style="list-style-type: none"> Usage of recycled paper for office stock | — | 100% | 97% | 98% | |
| Environmental management | <ul style="list-style-type: none"> Establish Committee on Ecology at JR East Head Office and branch offices to monitor environmental management Acquire ISO14001 certification at the Sendai General Rolling Stock Maintenance Workshop Conduct forestation along railway lines Publish the Environmental Report, conduct environmental publicity, etc. | <ul style="list-style-type: none"> Specific annual environmental protection activities | — | — | 12 locations 20,000 trees planted 2,000 participants | 13 locations 10,000 trees planted 3,500 participants | 21-24, 39 |
| | | <ul style="list-style-type: none"> Develop <i>AC Train</i>, next-generation commuter trains Develop <i>NE Train</i>, hybrid trains Develop noise reduction and other technologies | | | | | 32, etc. |
| Social activities | <ul style="list-style-type: none"> Support organizations or other groups related to environmental conservation and other activities | | | | | | 39 and 50 |



Satoshi Seino, JR East Vice President, Committee on Ecology Vice-Chairman

"In FY 2002 we made significant progress toward our FY 2005 goals for recycling the waste generated at our rolling stock maintenance facilities and construction sites. We also met our planned goal of reducing noise to 75 dB or less in designated residential areas along the *Tohoku* and *Joetsu Shinkansen* lines. However, our overall CO₂ emissions increased slightly, despite the fact that we consistently reduced train operation energy consumption per unit of transportation volume and CO₂ emissions per unit of power generated at the dedicated thermal plants. This discrepancy resulted from a decrease in the volume of power generated at dedicated hydraulic plants due to weather conditions, and from increased energy consumption at stations and office buildings. We will aggressively strive to reduce our total CO₂ emissions in FY 2003."

Progress toward FY 2005 goals

-excellent
-satisfactory
-behind schedule

*Evaluation of FY 2003 based on both progress and figures compared to previous fiscal year