

Top Message	Interview to Head of Corporate Environmental Strategy Unit	Special Feature: Human Centric Intelligent Society	Fujitsu Group Environmental Action Plan Stage VII	Chapter I Contribution to Society	Chapter II Reducing Our Environmental Burden	Environmental Management	Data Overview	
Reducing Greenhouse Gases (GHG) Emissions and Boosting Energy Intensity at Our Business Sites	Promoting Environmentally Conscious Datacenters	Reduce CO <sub>2</sub> Emissions from Logistics and Transportation	Promoting CO <sub>2</sub> Emission Reductions with Our Business Partners	Increasing Amounts of Renewable Energy Used	Efficient Use of Water Resources	Reducing Chemical Substances Emissions	Limiting Amounts of Waste Generated	Product Recycling

# Reduce CO<sub>2</sub> Emissions from Logistics and Transportation

## Our Approach

Given the broad geographical range of Fujitsu Group companies and business sites inside and outside Japan, and the materials/parts sourced from a significant number of business partners, reducing CO<sub>2</sub> emissions accompanying the logistics and transportation activities of the Group is a priority issue.

To this end, the Group has strengthened its targets for CO<sub>2</sub> emission reductions from domestic transport. Furthermore, our Environmental Action Plan (Stage VII) has expanded the scope of reductions beyond domestic targets to transport within regions overseas, as well as international transport, while the Plan is also driving forward rationalization and efficiency improvements in global logistics. In addition, the Group is working toward lowering environmental impacts along our entire supply chain, and working on cooperative efforts with business partners, such as displaying copies of the Fujitsu Group Green Logistics Procurement Directions, in order to strengthen our partnerships. Lastly, as an initiative in our distribution process overall, the Group is devoting effort to the 3Rs (Reduce, Reuse, Recycle) with respect to packaging products and materials/parts.

## Summary of FY 2014 Achievements

Targets under the Fujitsu Group Environmental Action Plan (Stage VII) (toward FY 2015)	Reduce by over <b>1%</b> on average every year CO <sub>2</sub> emissions per sales from transport (compared to FY 2013)
FY 2014 Targets	Reduce by over <b>1%</b> CO <sub>2</sub> emissions per sales from logistics (compared to FY 2013)
FY 2014 Key Performance	Reduced by over <b>13%</b> CO <sub>2</sub> emissions per sales from logistics (compared to FY 2013)

## FY 2014 Performance and Results

### Promoting Initiatives in Domestic, Intra-regional (Outside of Japan), and Overseas International Transportation

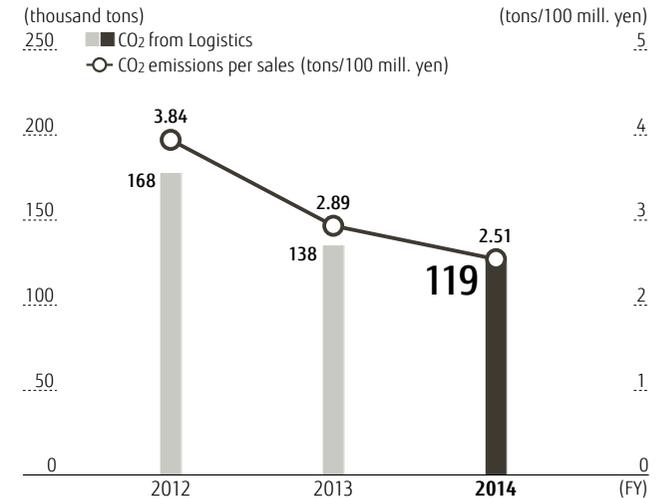
With regard to the Group's transportation inside Japan, we are continuing to effectively utilize rail transport as an ongoing modal shift initiative, while also relaxing specific delivery requirements and choosing transport boxes in a way that increases truck loading efficiency rates, which has led to a decrease in our number of trucks. In addition, we are actively implementing what we call "stacked shipping," which efficiently combines cargo from multiple Group companies.

Modal shift is also being implemented in international and intra-regional transportation outside of Japan. The Group is shifting from air to ocean transport, shortening transport distances, utilizing low emission vehicles, reducing shipping vehicle numbers by having fewer, urgent deliveries, and engaging in other efforts such as reducing the amount of air transport.

### FY 2014 Targets Achieved

FY 2014 CO<sub>2</sub> emissions from transport were 119,000 tons. Of that amount, 23,000 tons were from domestic transport, while 96,000 tons were from international and overseas local transport. CO<sub>2</sub> emissions per sales were reduced 13% compared to FY 2013, which broadly surpassed our Environmental Action Plan (Stage VII) targets for FY 2014. Major contributors to this achievement were expanded modal shifts from air to ocean transport in our overseas transport practices.

## Trends in CO<sub>2</sub> Emissions from Transport



\*FY 2012-13 performance figures were revised accompanying reassessment of categories for compiling CO<sub>2</sub> emissions data from international logistics.

## FY 2015 Targets and Plans

### Continuing and improving emission reduction

We will create efficiencies for truck transportation by continuing to improve our loading efficiency ratio; we will promote modal shifts for international logistics; and we will continue to pursue this target in FY 2015 as well, while promoting green logistics throughout the Group.

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## Reduce CO<sub>2</sub> Emissions from Logistics and Transportation

### Main Activities in FY 2014

#### Initiatives to Improve Logistics Efficiency in Japan

##### Reducing Truck Transportation by Consolidating Factories

We unified our domestic mobile phone factory to one location, Fujitsu Peripherals Limited (Hyogo Prefecture). This consolidation allowed us to organize shipments to customers and reduce the number of trucks needed.

##### Reducing Truck Transport by Incorporating External Warehouses Inside our Factory

We have been able to reduce the number of truck runs between factories and warehouses by moving leased warehouses near our Fujitsu Oyama Factory (Tochigi Prefecture) inside the factory itself.

##### Improving Truck Loading Efficiency by Optimizing Packing Boxes

At Fujitsu Telecom Networks Limited (Tochigi Prefecture), we examined our truck loading efficiency data for shipments of network products overseas. The result was a shift to packing boxes that could be stacked in two tiers. This new approach boosted our truck loading efficiency ratio and allowed us to reduce the number of trucks we use.

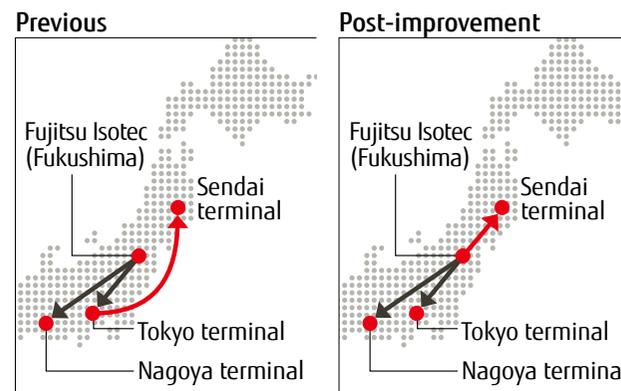


Packing boxes stackable in two tiers

##### Reducing Shipping Distances by Redesigning Logistics Routes

We reassessed the logistics route of PC products between Fujitsu Isotec Limited (Fukushima Prefecture) and the Sendai terminal, which allowed us to shorten the shipping distance. Prior to the change, the route to the Sendai terminal, which handles shipping for the Tohoku region, passed through the Tokyo terminal, where other packages were loaded onto our trucks. The new approach instead made this a direct route to the Sendai terminal with no stop in Tokyo.

###### Logistics route to the Sendai terminal



##### Reducing Truck Transport between Factories

At Fujitsu Frontech Limited (Niigata Prefecture), we examined our truck loading efficiency ratio for regular shipments of repaired products between our Niigata and Kumagaya Factories. Carrying out cargo adjustments allowed us to reduce the number of trucks on this route.

#### Promoting Modal Shifts Overseas

At Fujitsu Technology Solutions GmbH (Germany), we have been undertaking a long-term initiative to boost logistics efficiency.

The primary effort is to implement a modal shift from air to ocean transport for international shipments. In addition, we have implemented driver training and adopted new-model low-emission vehicles as we collaborate with logistics service providers to reduce environmental burdens along our supply chain.

#### Reducing Environmental Burdens from Packaging

The Fujitsu Group is also working to reduce the environmental burden of packaging products and parts across our entire logistics process.

By promoting 3R efforts, such as downsizing the boxes used for products and components of the Group, and shifting to reusable alternatives such as returnable containers, we are implementing reductions in the amount of cardboard, cushioning, and other packaging we use.