

# The Method for Calculating the Steel Can Recycling Rate

Following is the method for calculating the steel can recycling rate.

## Amount of Steel Can Consumption

### Calculation Method

- The weight of domestically produced steel cans shipped, weight of steel cans used for import/export of canned food and weight of steel cans imported as empty cans between January and December of 2009 were monitored based on the Ministry of Economy, Trade and Industry Statistics and "Japan Exports and Imports" from the Ministry of Finance, as well as the surveyed weight of steel cans.

### Calculation Results (① - ② + ③ + ④) : 699,354 tons

#### ① Weight of domestically produced steel cans shipped : 594,935 tons

- Figures in tons from the Ministry of Economy, Trade and Industry Statistics were used for Beverage cans, food cans and general cans.
- The weight of 18-liter cans is calculated by multiplying figures in tons from the Ministry of Economy, Trade and Industry Statistics by the (food) ratio announced by the National Federation of 18 Liter Cans Manufacturers Corporative Union.

#### ② The weight of steel cans used for exporting canned food : 1,551 tons

- Calculated based on "Japan Exports and Imports" from the Ministry of Finance.

#### ③ The weight of steel cans used for importing canned food : 100,865 tons

- Calculated based on "Japan Exports and Imports" from the Ministry of Finance. We assumed that the main types of cans used for manufacturing in Japan were used for food, tomatoes/vegetables and pet foods imported in "air-tight containers" (including not only cans but also other containers), and we estimated the number of cans and calculated the weight of containers by multiplying by the unit can weight.
- Of 100,865 tons, exported pet food cans: 17,225 tons (\*Calculated based on the data from the Pet Food Manufacturers Association, Japan)

#### ④ Weight of steel cans imported as empty cans : 5,105 tons

- Figures in tons from "Japan Exports and Imports" from the Ministry of Finance.

## Amount of steel can scrap collection

### Calculation Method

- We assumed that 3 months elapses between the sale of steel can goods and the collection of the cans for recycling and we sent a survey form regarding usage amounts of scrap steel cans during the period from April 2009 to March 2010 to a total of 83 manufacturers including furnace manufacturers, blast furnace manufacturers, Pellet manufacturers, and casting manufacturers.
- In addition, we estimated, according to the survey data, the amount of steel cans for steelmaking raw materials recycled under the standard other than C Shredder through shredding process of iron scrap dealers across the country, and incorporated it into the subject calculation.
- We subtracted the weight of aluminum caps for beverage cans included in the scrap steel cans and foreign substances such as moisture from this total value.

### Calculation Results (① - ② - ③) : 623,108 tons

① Weight of scrap steel cans used : 658,082 tons

② Weight of foreign substances such as aerosol cans, iron scrap included in ① above : 6,801 tons

③ Weight of aluminum lids for beverage containers included in ① above : 28,173 tons

## The Steel Can Recycling Rate in FY2009

$$\frac{\text{Amount of steel can scrap collection (623,108 tons)}}{\text{Amount of Steel Can Consumption (699,354 tons)}} = 89.1\%$$

# Distribution Diagram of Steel Makers (Electric Furnace, Blast Furnace and Pellet)

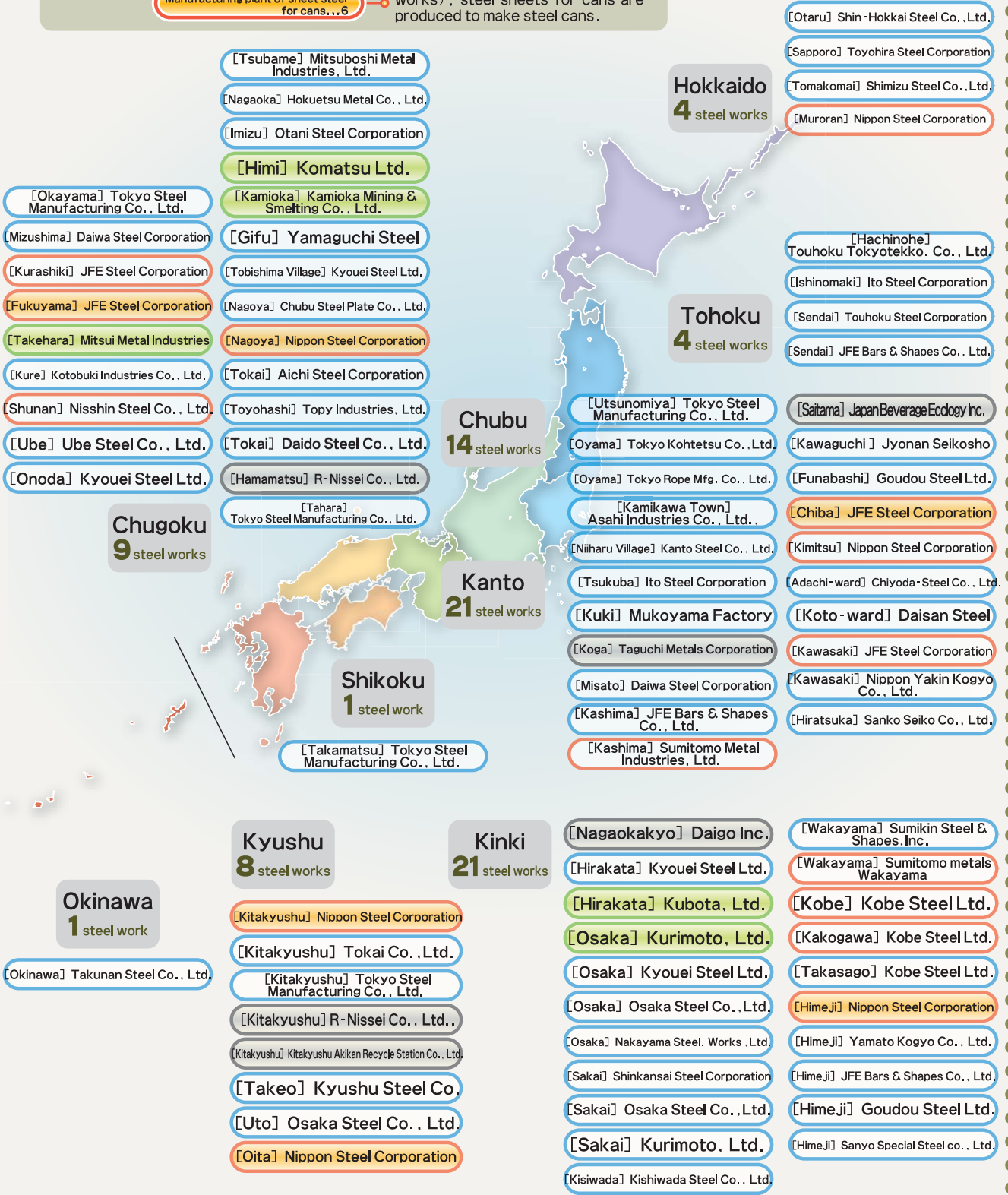
\*The research conducted by Steel Can Recycling Association

**Total in Japan**  
**83**  
Steel Works

- Blast furnace steel works...15
- Electric furnace steel works...57
- Pellet works...6
- Foundries...5
- Manufacturing plant of sheet steel for cans...6

■ Steel cans are recycled in most of these steel works and foundries.  
■ Recycled products are produced in nearest plant in each region to recycle efficiently.

At 6 works (included number of 83 works), steel sheets for cans are produced to make steel cans.



## Activities of the Japan Steel Can Recycling Association

### ■ Exhibited at Events on Environments all over Japan.

- Performed promotion and PR for beautification and 3R
- October 2009  
"Mito -shi Environment Fiesta"
- October 2009  
"National Convention for Promotion of 3R in Chiba" (Chiba Environment Exhibition)
- October 2009  
"Biwako Lake Environment Business Messe 2009"
- November 2009  
"FE West Japan Fiesta in Kurashiki"
- November 2009  
"Yahata Maturi Kyogyo Sai"
- November 2009  
"Toukai Aki Matsuri 2009"
- December 2009  
"Eco -Products Exhibition 2009"
- June 2010 "FE West Japan Fiesta in Fukuyama"
- June 2010 "Eco -Life Fair 2010"
- August 2010  
"The 10th Shinshu Environment Fair 2010"
- September 2010  
"Otaru -shi CANART Festival"



Eco -Products Exhibition 2009



Practiced "Campaigns for Antilittering and Beautification" in Matsuyama

### ■ October 2009:

Press conference on our activities

### ■ Practiced "Campaigns for Antilittering and Beautification"

- October 2009, in Toyama, May 2010 in Akita, September 2010 in Matsuyama
- Performed 481 times at 343 sites in total 38 years from 1973 till September 2010

### ■ Performed "Excursion at steel plants, recycling center and etc."

- November 2009 "Chuo -ku Environmental preservation Network"
- November 2009 "Shibuya -ku Liaison Council for Living and School"
- July 2010 "Keio Girls Senior High School"

### ■ December 2009 Practiced support for the School-Feeding Programme according to the amount of recycling quantity in Japan.

### ■ January 2010 Commended and supported junior high/high school where practicing excellent environmental education.

### ■ January 2010 Commended and supported group practicing group collection.

### ■ January 2010

Held Poster Contest on Steel Cans Recycling and Commended them.

### ■ February and August 2010

Publication of magazine entitled "Steel Can Age" .

### ■ March 2010

Cooperated "1st Town Beautification Association (hosted by National Council of Town Beautification)

### ■ From April to September 2010

Surveyed current conditions of steel can recycling in Japan.

### ■ May 2010

Provision of garbage bags to support regional cleaning activities on "Zero Garbage Day"

### ■ October 2010

Publication of "A Manual for Group Collection ?encouragement of collaborative group collection -"

### ■ October 2010

Publication of leaflet on basic information of steel can, "The fundamentals of Basic Knowledge of Steel can"

### ■ Practiced delivery lecture, lecture and invited for lecture (as needed)

### <Practiced joint project to promote 3R of recycling of containers and packaging by 8 groups>

- October 2009  
"4th forum for promotion 3R of recycling of containers and packaging in Kyoto"
- December 2009  
Made public announcement of Voluntary Action Plan and the results of follow-up 2009.
- February 2010  
"Seminar of cooperation with civic for promotion 3R of recycling of containers and packaging in Sendai"
- July 2010  
Publication of leaflet "Basics of a Recycling" which review the methods of recycling from consumer's view together with the leader of consumers.
- August 2010  
Held a seminar with consumer, administrative, experts and agencies to discuss the future of promotion of 3R of recycling of containers and packages.
- August 2010  
Held a seminar with media representatives to discuss on how to do promotions more effectively.