

## Target and achievement

### (Isuzu Fujisawa Plant and Tochigi Plant)

#### Reduction of CO2 emissions

- Changes in CO2 emissions per production unit

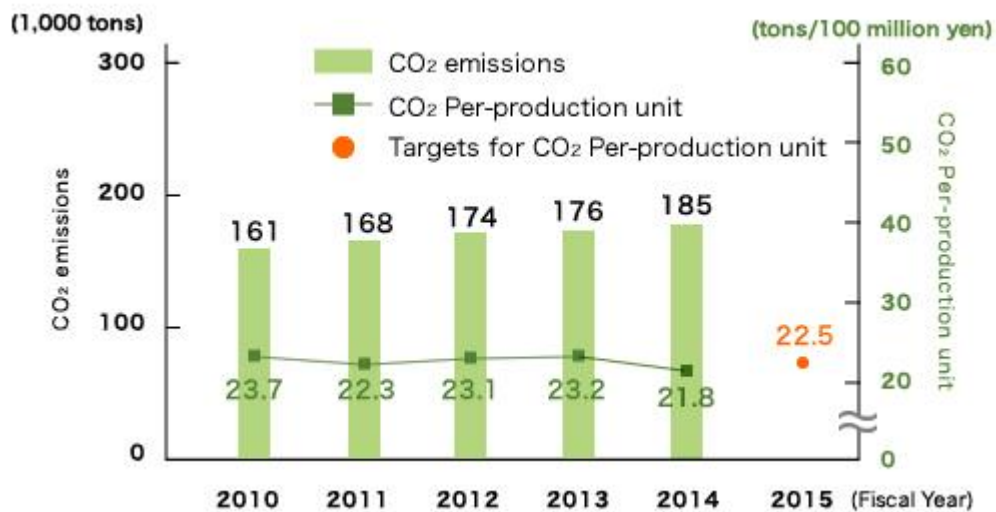
#### Target

CO2 emissions per production unit: Reduction of 5% or more from FY2010 by FY2015

#### FY 2014 achievements

CO2 emissions amount: 185,000 tons

CO2 emissions per production unit: 21.8 tons/hundred million yen (8% reduction from FY2010)



The production volume increase triggered greater CO2 emissions in FY2013, but Isuzu continued CO2 reduction initiatives helped to achieve the reduction target for emissions per production unit. We are further engaging in activities to achieve the target value by promoting energy JIT (Just In Time).

## Major CO2 Reduction Initiatives

- • Use of a large-scale combined heat and power system to provide electricity and a heat source for plants
- • Use of small-scale combined heat and power systems for new buildings
- • Use of highly efficient multi-can boilers
- • Use of inverter air-conditioning equipment and power equipment
- • Promotion of "eco-stop" and "no-idling"
- • Improving the working efficiency of large-scale air compressors (deployment of small-sized equipment)
- • Introduction of lighting equipment which uses renewable energy
- • Introduction of high-efficiency lighting equipment
- • Added the Co-generation system for new buildings (Tochigi Plant)
- • Installation of a solar power facilities (Fujisawa Plant)



Tochigi Plant Co-generation System



Fujisawa Plant's solar power panels

## Reduction of waste - Changes in amount of final landfill wastes

### Target

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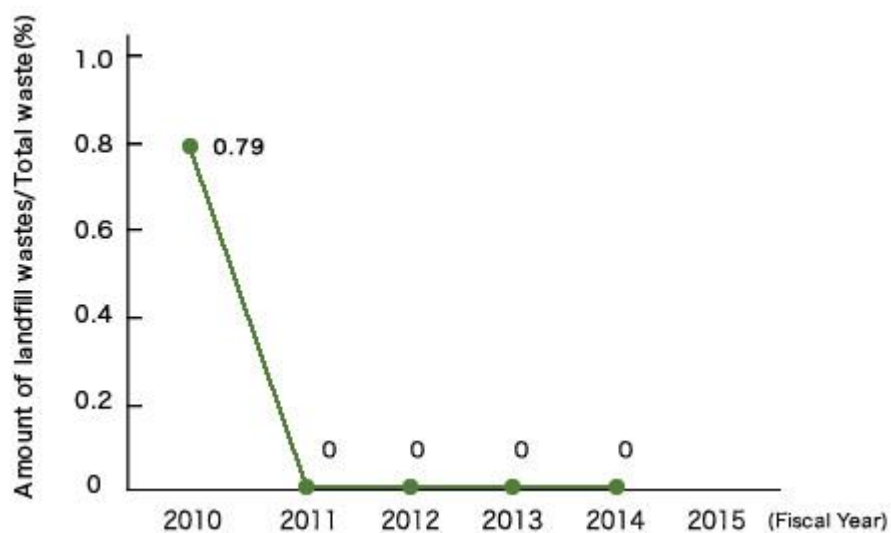
Amount of landfill wastes (tons)/Total waste (tons) = 1.0% or less

### FY 2014 Achievement

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Amount of landfill wastes (tons)/Total waste (tons) = 0.0 %

\* Amount of landfill waste : 0 tons, Total industrial waste amount : 7,710 tons



Isuzu succeeded in maintaining a landfill waste level of zero tons by thoroughly practicing classification control and various waste reduction efforts.

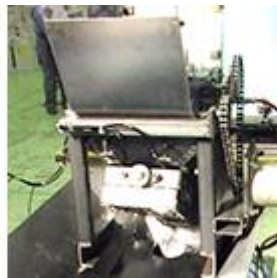
### Waste reduction activities

- Expansion of items to be converted to valuable resources by seeking new purchasers
- Careful sorting and collection; promoting recycling after disassembly and scrapping
- Reduction of the total amount of waste and reduction of by-products

- • Promotion of material recycling of plastic products
- • Expansion of recycling by sorting waste oil
- • Promotion of recycling the clay attached to foam polystyrenes
- • Reduction of emission by returning wooden pieces used as partitions
- • Promotion of turning helmets and safety caps as valuables
- • Recycling of compact rechargeable batteries
- • Reduction of paint residues by changing the chemicals used in the circulation tank
- • Recycling of iron powders from the forging process into as steel materials



Waste oil separation device



Paper and Iron separation device

### Effective use of water resources

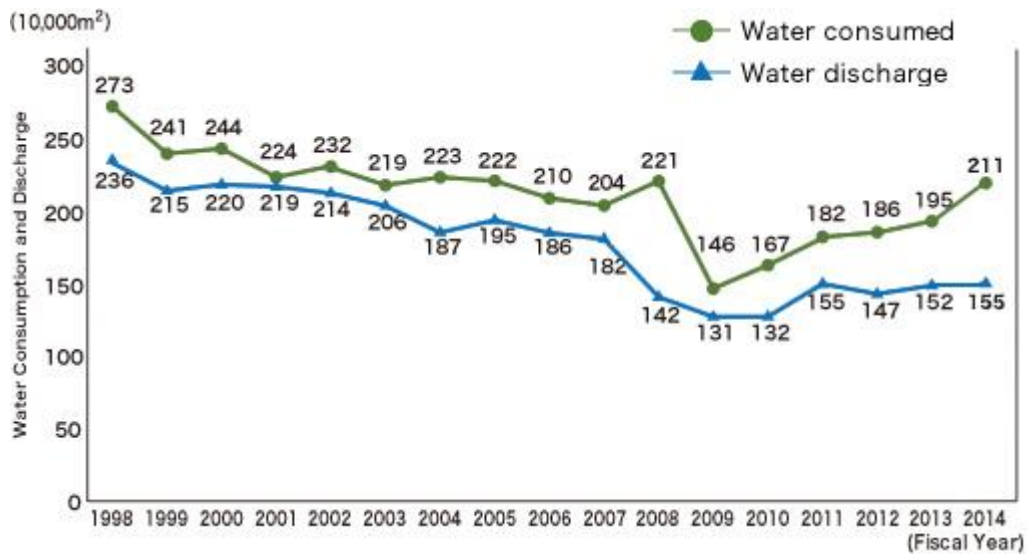
Isuzu effectively uses water resources by promoting water saving and water recycling in the final water treatment process, and filtering ground water for daily life usage.

### FY 2014 Achievement

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Water Consumption : 2,110,000 m<sup>3</sup>

Fujisawa Plant, which consumes a high volume of water, leads water-saving activities by re-using washing water from the electro coating process and recycling treated sewage for bathroom use. In FY2014, however, water consumption rose by approximately 4% in comparison to FY2013 due to the increase in production volume.



### Reducing VOC\* emissions in Fujisawa Plant

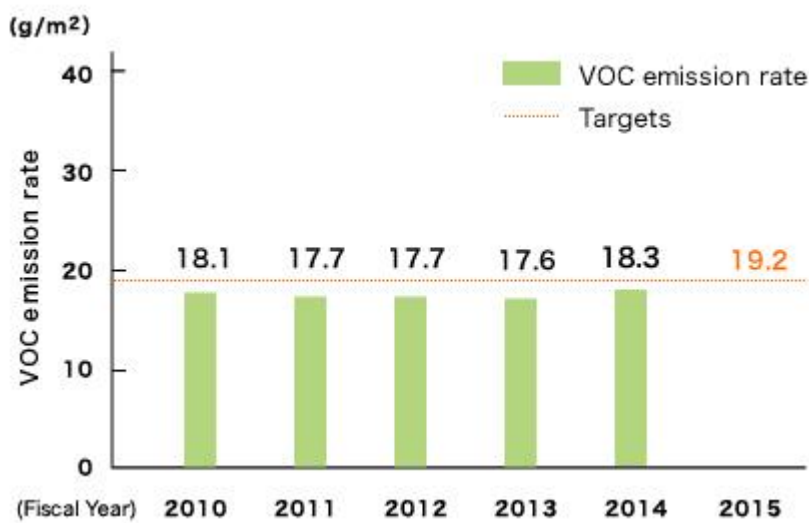
\*VOC: Volatile organic compounds (mainly organic solvents)

#### Target

VOC emission rate: under 19.2 g/m<sup>2</sup>

#### FY 2014 Achievement

VOC emission rate: 18.3 g/m<sup>2</sup>



## Training Programs of Environmental education

Isuzu provides training programs about general environmental education, related laws and regulations, and various programs for ISO internal auditors.

### FY 2014 Achievements

Item		FY2014 achievements
General environmental education	For the new employees	541 employees
	For 3R promotion month	
	For energy-saving month	
Environmental law and regulations training		91 employees
ISO internal auditor training	New employee training	191 employees
	Skill training	
	Improvement training	
	Workshop	

### Business activity and environmental hazard (FY 2014)

Through a product life cycle (development, procurement, manufacturing, logistics, product operation, and disposal), Isuzu reduces environmentally hazardous substances. They are analyzed in each process with the focus placed on the ones highly likely to pose a risk.

### FY 2014 Achievement

