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#### **Eco-Cities Network South East Asia**



# ~ Towards a Water-saving type Society ~ TOTO's Commitment to the Environment



Oct.  $20^{th}$ , 2013ESG Promotion Department TOTO Ltd. Yoshimi Shigenaga



2. TOTO and Environmental Conservation

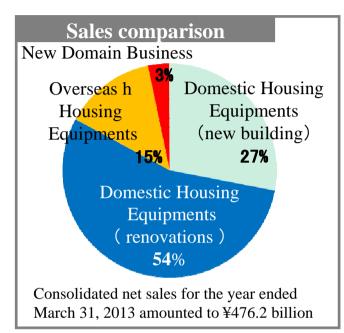


2. TOTO and Environmental Conservation

### 1. About TOTO

#### TOTO

#### ■ Main Products



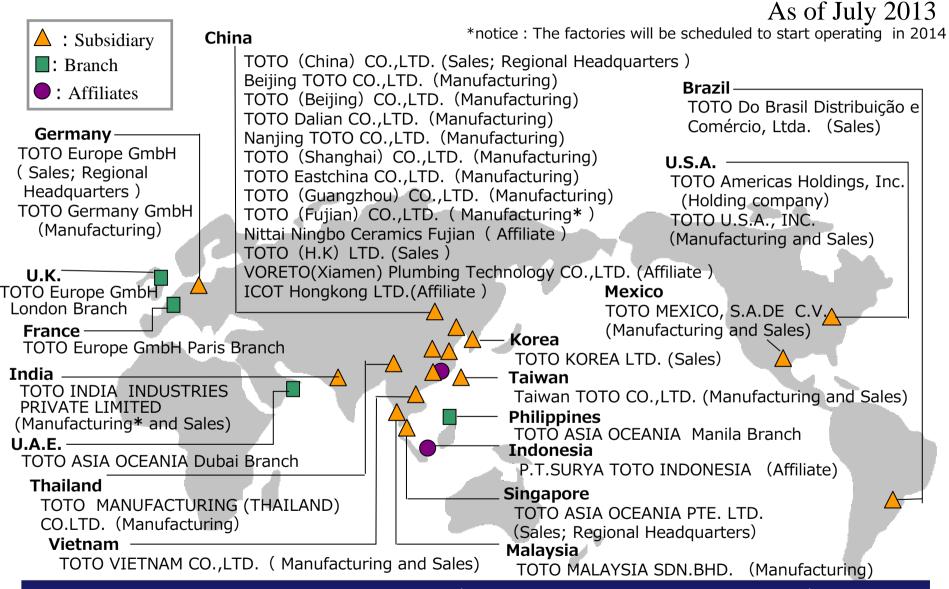






#### 1. About TOTO

#### TOTO



17 Countries 31 locations (16 Sales + 19 Manufacturing)

#### 1. About TOTO



### ■ TOTO V-Plan 2017 (Long-Term Management Plan)

## Be a truly global company by 2017

Provide customers over the world with a new "every day" and continue to be indispensable to society.

FY2017: Achieve net sales of ¥600.0 billion, operating income of ¥48.0 billion and ROA of 10%

Realizing environmental contribution through "TOTO GREEN CHALLENGE"



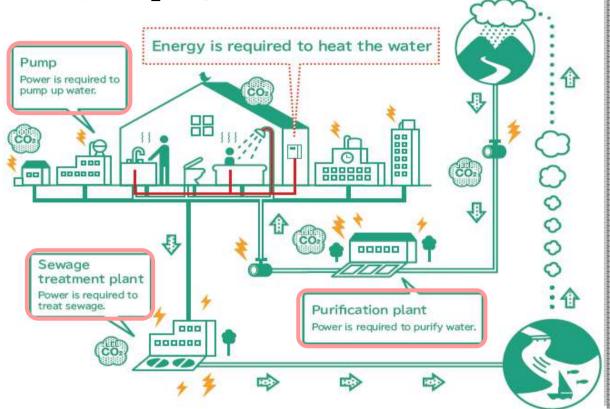


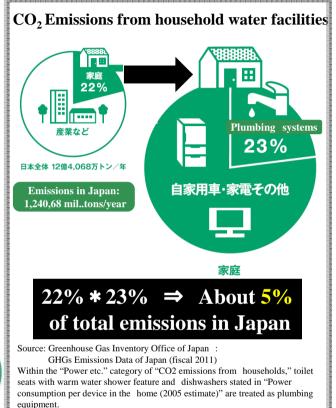
2. TOTO and Environmental Conservation

### 2. TOTO and Environmental Conservation

TOTO

Why CO<sub>2</sub> is generated when we use water





When we use water, power is needed to purify the water, and energy needed to heat it.

Conserving water and hot water thus leads to reduced energy use.

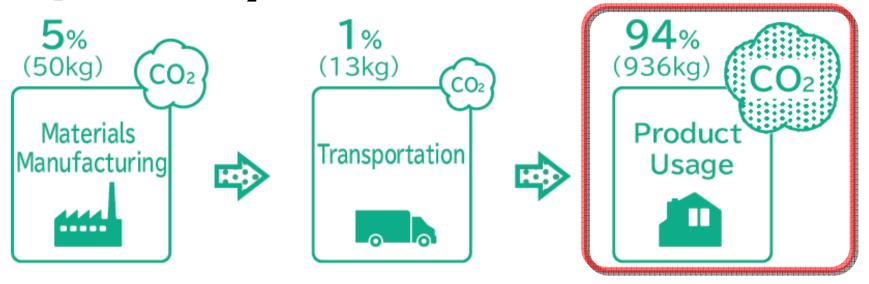
With 1m<sup>3</sup> water saved • • • 0.59kg-CO<sub>2</sub> reduced \*\*1

※1 Ministry of the Environment,
Environment and household accounts

### 2. TOTO and Environmental Conservation

TOTO

■ Comparison of CO<sub>2</sub> emissions in Product Lifecycle



The NEOREST toilet with integrated Washlet (launched 2005, 8L flushes) \*Estimate based on TOTO product and environmental assessment criteria (assuming a product lifecycle of 10 years)

TOTO products emit the most CO<sub>2</sub> in the "Product Usage" stage

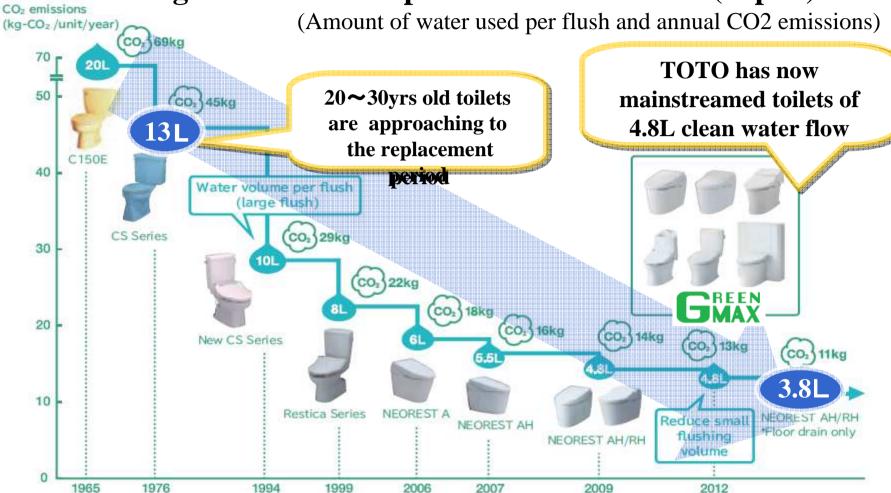
TOTO makes the biggest environmental contribution by providing water saving products for its customers



2. TOTO and Environmental Conservation

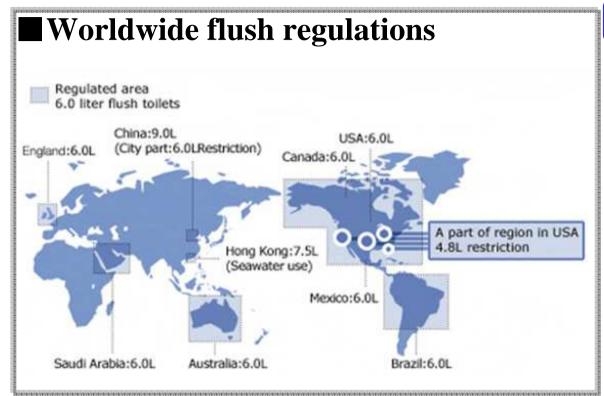
TOTO

### ■ The evolving environmental performance of toilets (Japan)



Toilets, in particular, use the most water in the household, and for many years, TOTO has worked to develop technology to control flushing water.

TOTO





The common standard worldwide is 6L. However, TOTO envisions a 4.8L standard.

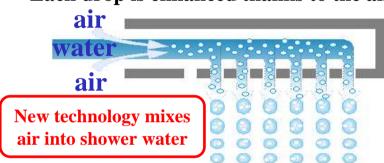


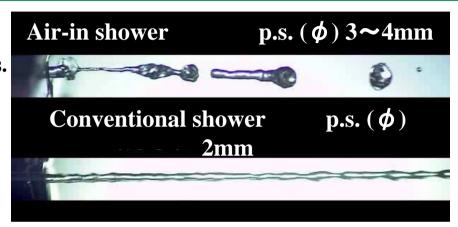
TOTO will push for 4.8L as the global standard, and popularize the even more water efficient 3.8L toilet

TOTO

# Air-in shower A combination of "water saving" and "comfort"

An new innovation was realised by creating a showering sensation with a fixed water volume. Each drop is enhanced thanks to the air bubbles.



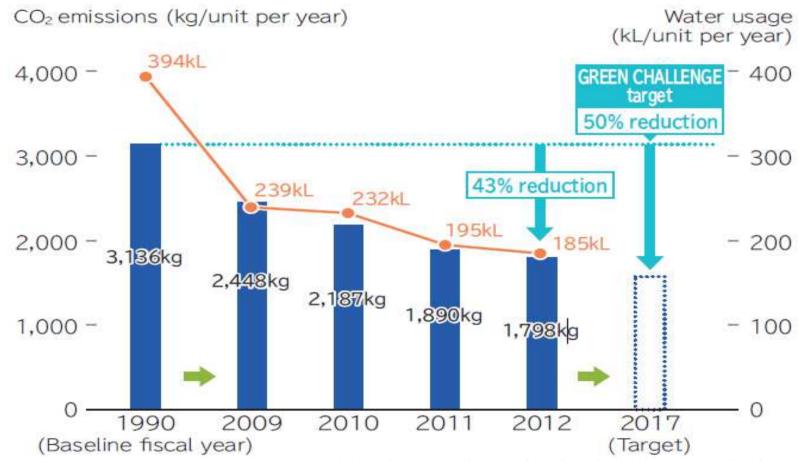




Even while saving water you can enjoy the luxurious sensations of the shower. A new showering experience.

TOTO

#### Changes in CO2 emissions and water consumption during product usage (Japan)



\* When using the latest main products for the four major plumbing spaces (assuming a four-person household)

Environmental technologies, such as saving water and air purification, are being spread worldwide and are helping to solve global environmental issues.

#### TOTO

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TOTO