# Introduction of CLOMA (Japan Clean Ocean Material Alliance) and Recycle initiatives for PET bottles

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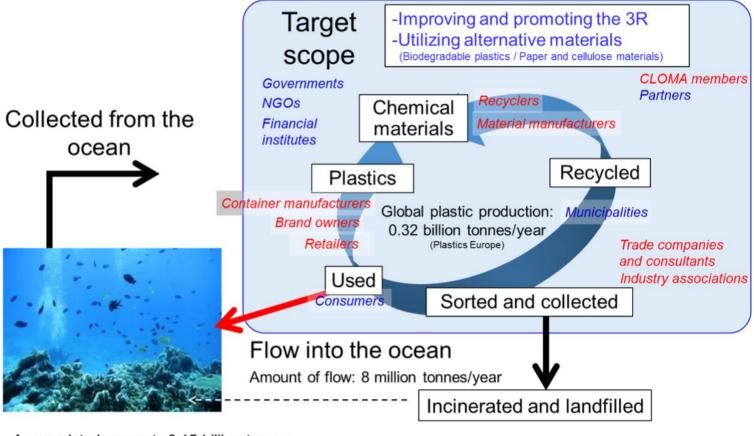
#### What is CLOMA?



#### Japan Clean Ocean Material Alliance

Japan Ocean Material Alliance (CLOMA) was established in January 2019, consisting of companies responsible for consumer product supply chains.

Leveraging the technology and knowhow accumulated by Japan's industrial community, CLOMA endeavors to accelerate innovation for the 3R (reduce, reuse and recycle) and alternative materials, and to encourage extensive plastic recycling through public-private partnerships. In this way, CLOMA will disseminate its "Japan model," a made-in-Japan solution that aims to reduce marine plastic litter to zero in cooperation with consumers and society.

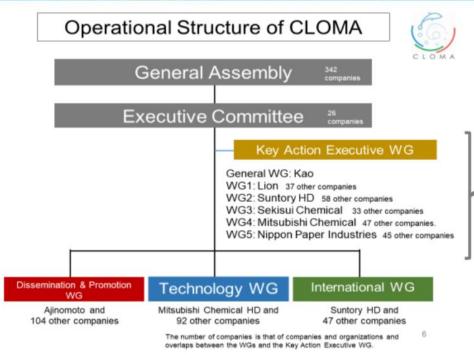


Accumulated amount: 0.15 billion tonnes

New Plastic Economy (Ellen MacArthur Foundation)



# **Key Actions**



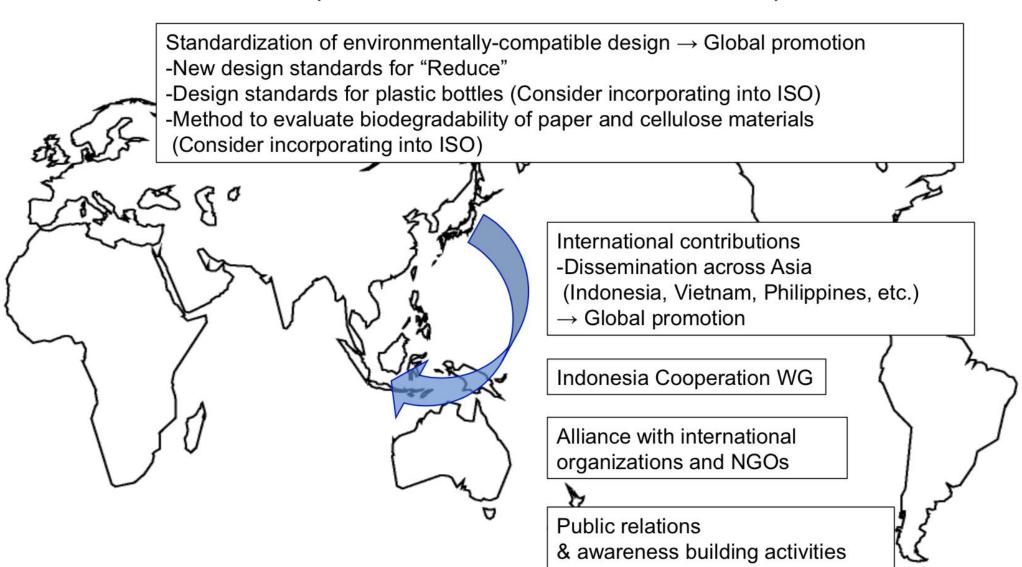
	Key Action 1
	Reducing Plastic Consumption
	Key Action 2
	Improving the Rate of Material Recycling
	Key Action 3
	Developing and Disseminating Chemical
	Recycling
40	Key Action 4
	Developing and Disseminating
	Biodegradable Plastics
	Key Action 5
	Developing and Disseminating Paper and
	Cellulose Materials
	Cross-Action Theme
	Sophisticating the sorting and collection system

	2030	2050
CLOMA ACTION PLAN	60% recycling of containers/packaging*	100% recycling of plastic products**
Key Action 1: Reducing	25% reduction in virgin plastic waste	
Key Action 2: Material Recycling	PET: 100% collection, extensive recycling (100% effective utilization***) Other plastics: 60% recycling	
Key Action 3: Chemical Recycling		Maximum utilization
Key Action 4: Biodegradable Plastics	Helping to introduce 2 million tonnes of biomass plastics	
Key Action 5: Paper and Cellulose	0.1 million tonnes of alternative materials to replace plastics	1 m tonnes of alternative materials to replace plastics



#### Worldwide Dissemination

> Disseminate the "Japan model" worldwide as a made-in-Japan solution





# Trend of recycling (collection/resource recovery)

#### Maintaining the world-leading level recycling

Compared with 20.9% recycling rate in USA and 41.8% in Europe, the recycling rate in Japan remains in the world-leading level.

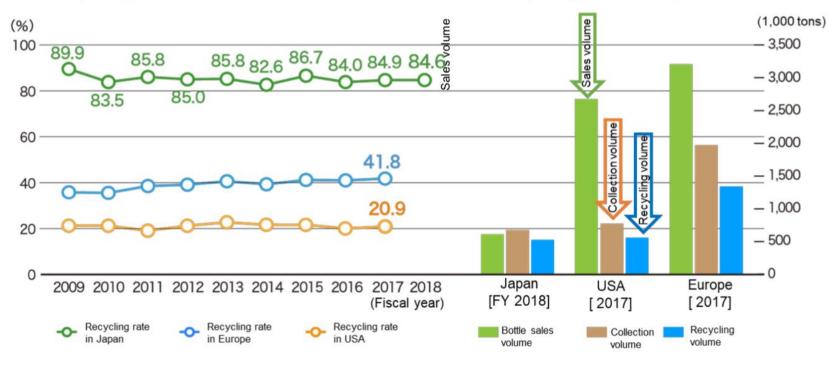


Figure 5. Changes in the recycling rates of PET bottles in Japan, USA and Europe

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FY2018	Sales volume (A)	Collection volume (B)	Recycling volume (C)	Recycling rate (C/A)	Volume/person
JAPAN	626	684	529	84.6%	4.9kg/person
USA (2017)	2,682	783	561	20.9%	8.3kg/person
Europe (2017)	3,207	1,972	1,340	41.8%	6.3kg/person



# Structure to make recycling easier

### (1) Regulation by law

PET bottle products used for food and to put contents easily washable with water were exclusively designated and became a target of recycling as PET.



Other products became another target even though they are PET.

## (2) Voluntary regulation by the industry

Design guidelines for easily recyclable PET bottles were established.

And have been observed by PET bottles produced in Japan.

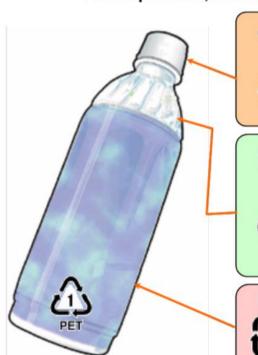
Observation of Voluntary Design Guidelines



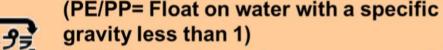
#### From 1992, Voluntary Design Guidelines for designated PET bottles

#### Soft drinks (including milk-based drinks), specified seasonings (soy sauce, etc.) and alcohol drinks

- \* Act on the Promotion of Effective Utilization of Resources → Specified labeled products [Promotion of sorted collection]
- \* From April 2008, review of PET classification: Soy sauce → Specified seasoning
- \* From April 2017, review of PET classification: Addition of alcohol fermented seasoning



Closure ⇒ Plastic closure



In 1998, aluminum closures were prohibited.

Bottle body ⇒ PET single substance/colorless and transparent

In 1998, base cups were prohibited in principle. In 2001, colored bottles were prohibited.

In 2015, GL corresponding to BtoB was added.

Label ⇒ Easily removable by hand



In 1994, PVC was prohibited (discoloration prevention of recycled materials).

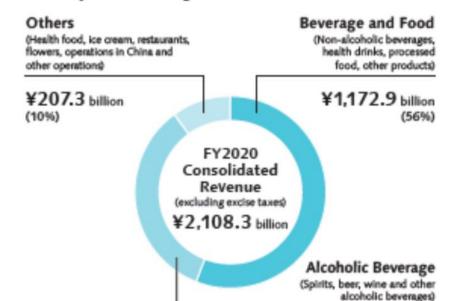
In 1994, entirely glued paper labels were prohibited.

In 1998, aluminum laminate was prohibited.

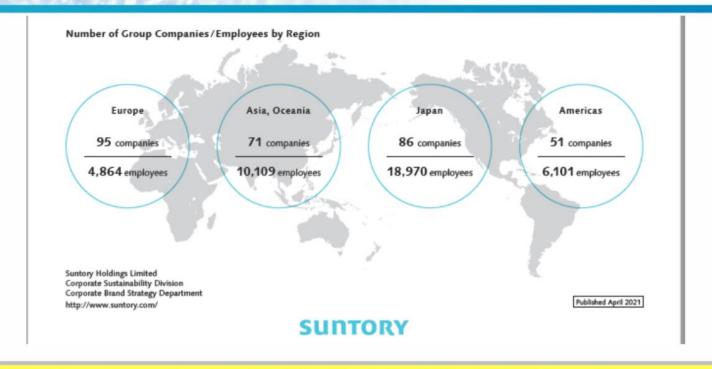
# Suntory Group Overview

#### **Suntory Group** 1899 Founded in Osaka, Japan

#### Sales by Business Segment



¥728.1 billion (34%)



Based on the Suntory Group Plastic Policy, we will aim to switch all PET bottles used globally for Suntory products to be made of recycled or plant-based material by 2030, achieving zero use of virgin petroleum-based materials.

























