

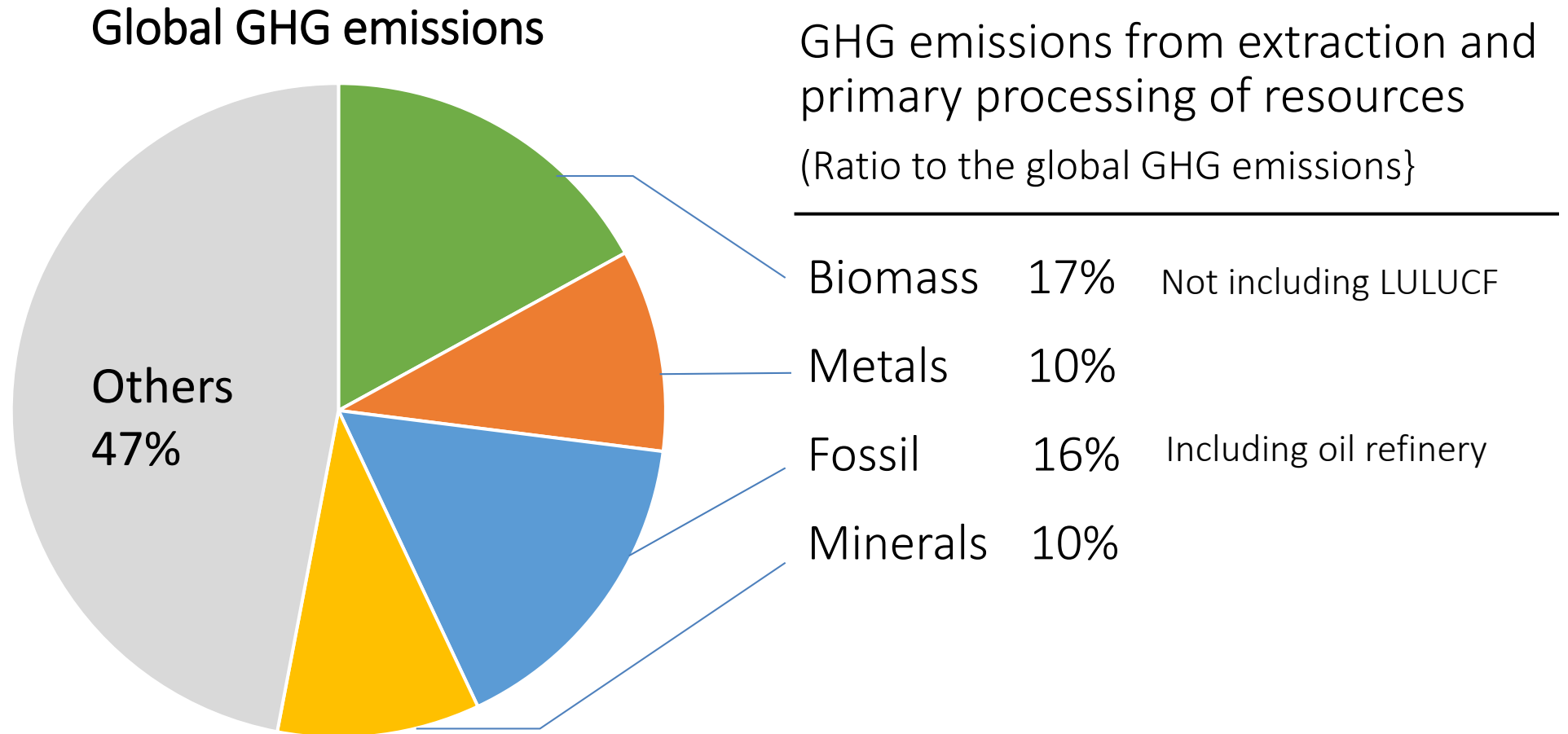
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# Tokyo's Plastic Strategy for a Decarbonized Economy

March 1, 2023



# Half of the GHG emissions comes from materials.



IRP (2019). *Global Resources Outlook 2019: Natural Resources for the Future We Want*

# Zero Emission Tokyo Strategy

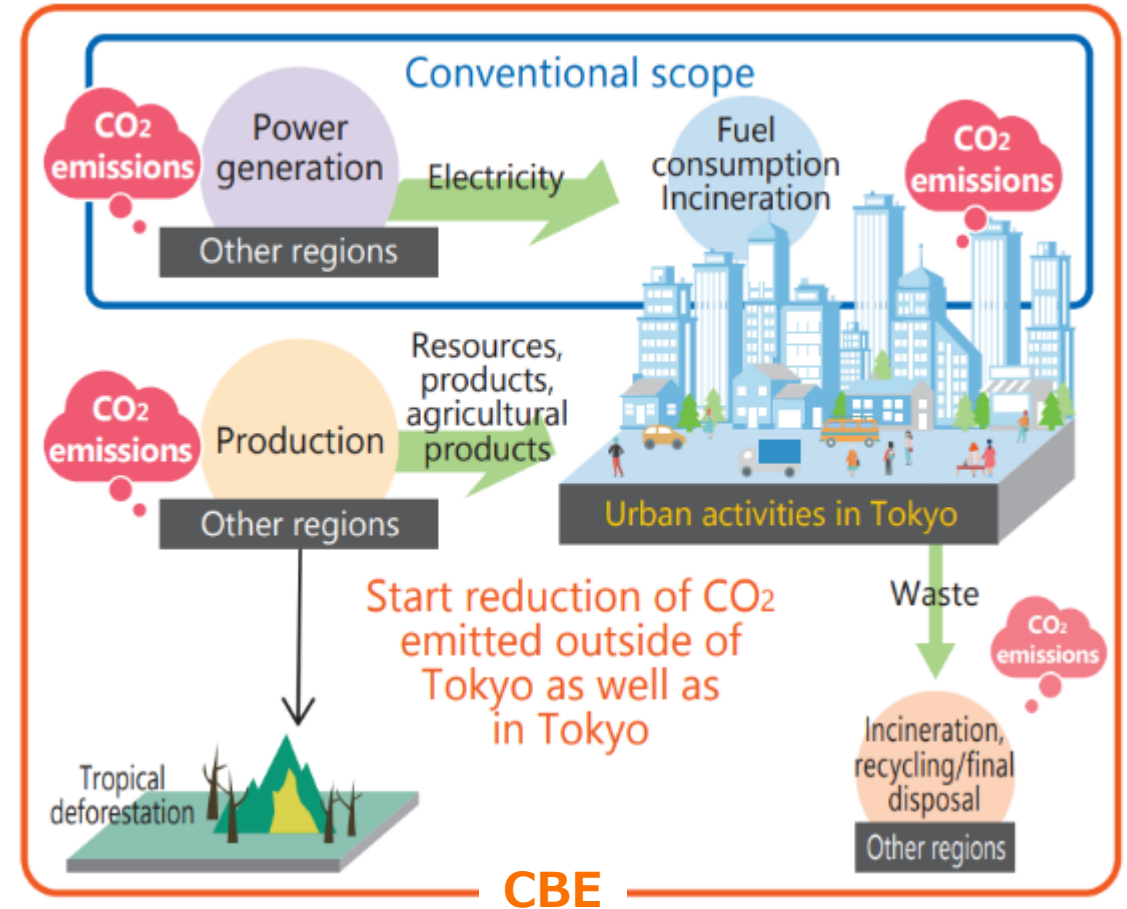
## CBE : Consumption-based Emission

The Tokyo Metropolitan Government has integrated decarbonization and circular economy policies in its 2019 Zero Emission Tokyo Strategy.

While referring to the concept of CBE, the plan clearly associates policies for sustainable resource use with the need to contribute to CBE reduction outside the region, as a responsibility of Tokyo, a metropolis with significant influence on energy and material use.

- Promoting low-carbon building materials
- Reducing food waste
- Sustainable use of plastics

## Scope of emissions reductions envisaged by Tokyo

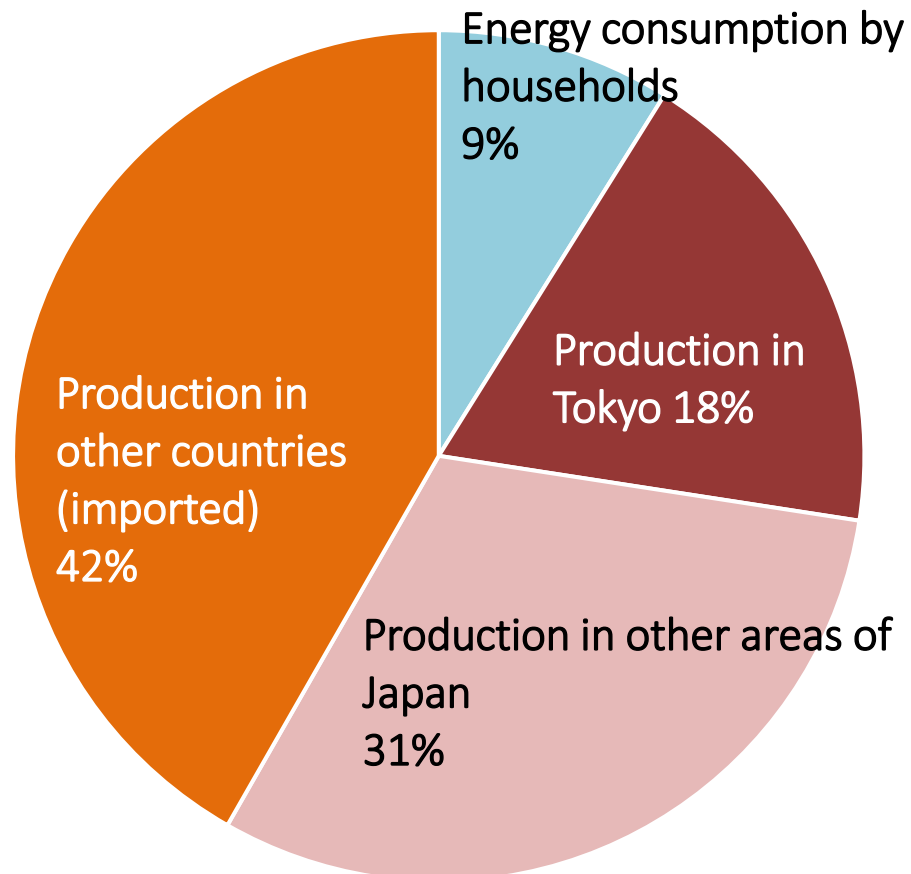


Zero Emission Tokyo Strategy (2019), p18

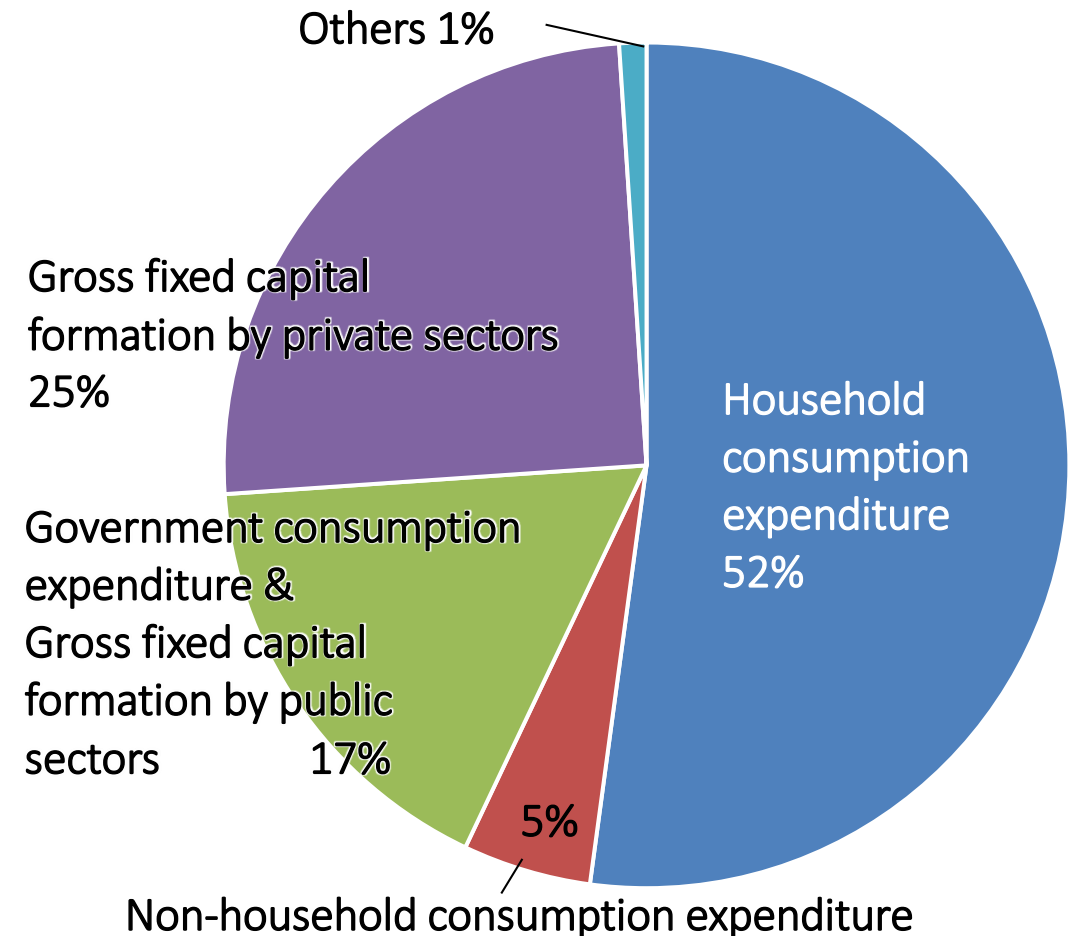
# Tokyo's consumption-based emissions

The quantity of Tokyo's CBEs in 2015 was **214 million t-CO<sub>2</sub>**. It was three times larger than production-based emissions (scope 1&2).

Breakdown by emission **source**



Breakdown by final demand **sectors**



# CCC: Carbon-closed Cycle

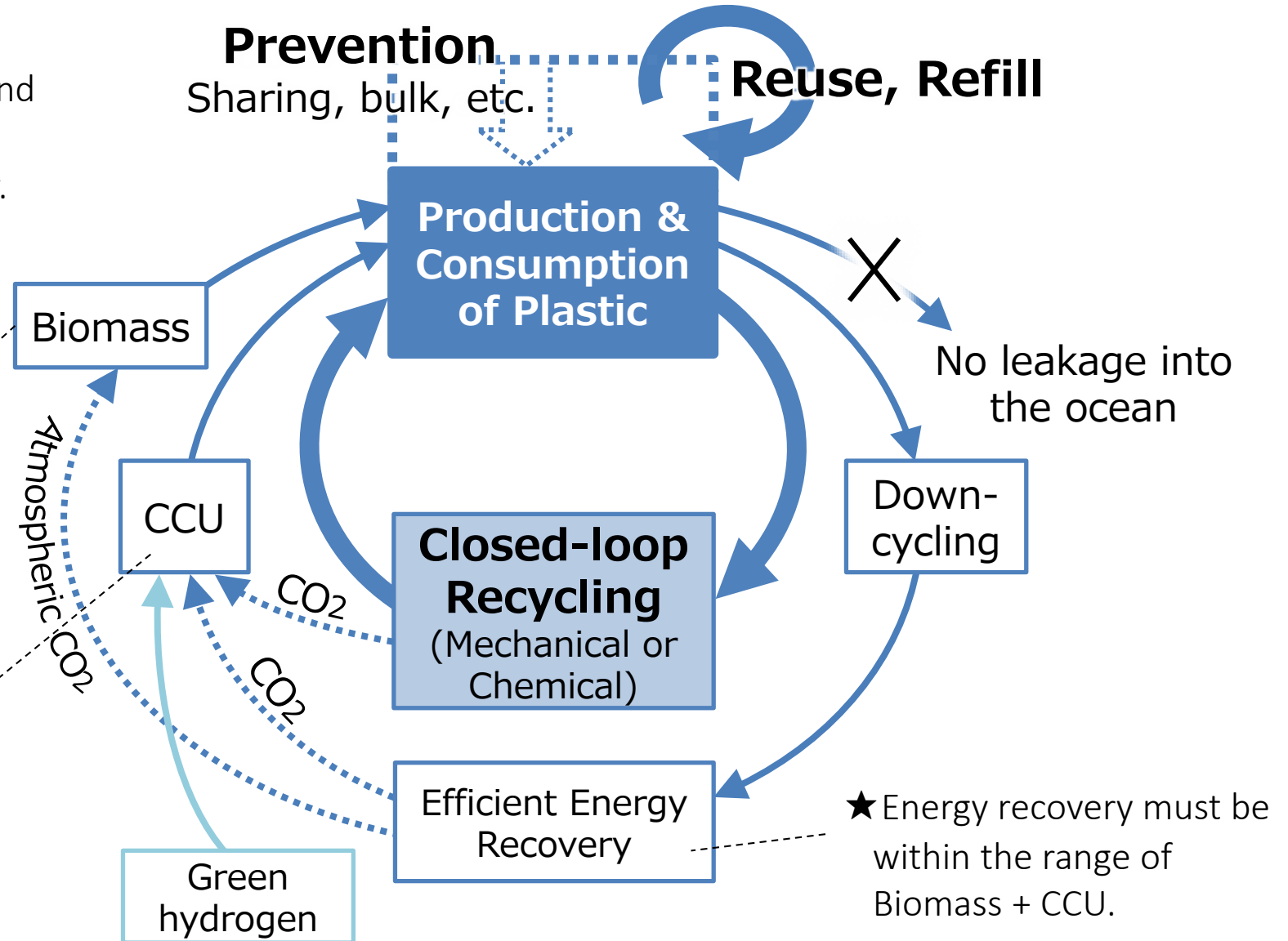
★ Energy for plastic production and recycling must be completely covered with renewable energy.

★ Biomass use with no land use change, and within the limit of the growth rate of plants

★ CCU within the range of the supply of CO<sub>2</sub>-free hydrogen

**Prevention**  
Sharing, bulk, etc.

**Reuse, Refill**



# Innovations we need

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## Innovation in business models:

- Rethinking the way we make, sell and buy, and use things
- Significant reduction of single-use plastics
- Shift to a reuse-based system

## Innovation in recycling system of plastics

- Easy-to-recycle product design
- Take-back scheme by retailers and manufacturers
- Recycling technologies including advanced sorting system, solvent-based extraction, depolymerization and other chemical recycling

# Projects for Circular Innovations



## Loop

A global platform for reuse



## Re&Go

Reusable cups for take-outs from cafés & CVSs



## MEGLOO

Reusable containers for local food restaurants

Thank you!

