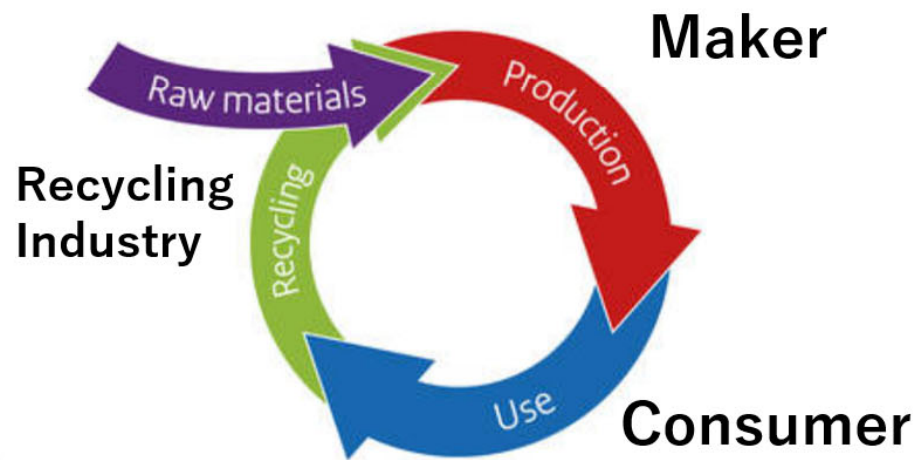


Industrial waste treatment emitting less GHG,  
and recycled fuel saving fossil fuels

# The industrial waste treatment / recycling industry contributes to realize the Circular Economy and to the environment creation



The Image of Circular Economy\*

**GHG reduction**

**Fossil fuel-free**

**Recycling-oriented society**

\* [A Circular Economy in the Netherlands by 2050-Government-wide Program for a Circular Economy] (2016)

# We contribute to reduce GHG emissions and fossil fuel consumption through recycling industrial waste

Recycling

Recycling of industrial waste with low GHG emissions



Waste oil

Recycling



Recycled fuel

Effect



Incineration

Reduce  
**98%**  
GHG  
emissions



Recycling

Daiseki

Alternative

Reducing fossil fuel consumption with recycled fuel



Consume heavy oil and coal

Use of recycled fuel



Recycled fuel

Effect

No fossil fuel consumption

# Reduction of GHG emissions and building a Recycling-Oriented Society through industrial waste recycling

## 1. Reduction of GHG emissions

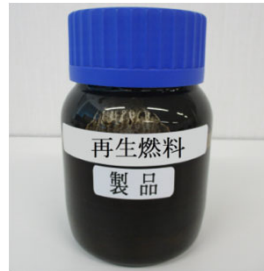
Production of Recycled Fuel from Waste Solvent



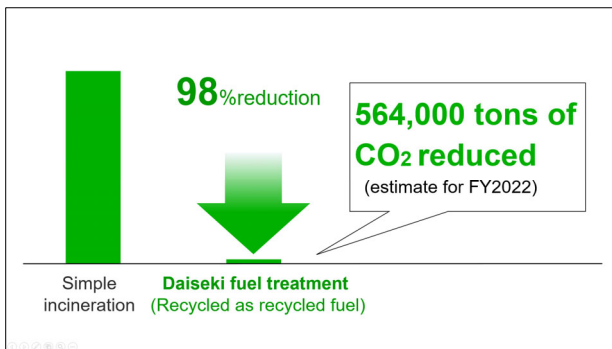
Waste Solvent



Recycled Fuel Processing Facility



Recycled Fuel

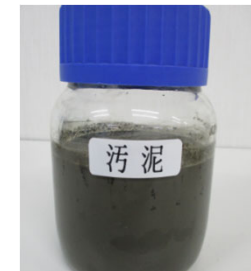


The effect of GHG reduction through recycling

※Comparison of GHG emissions between simple incineration and recycling of waste solvents, etc.

## 2. Building Recycling-Oriented Society

Production of cement raw materials from sludge



Sludge



Drying Facility



Cement Raw Material

Cement Raw Material Shipping  
**261,000t**  
(FY2022)  
Equivalent to about 8.8% of the sludge used as cement raw material in Japan



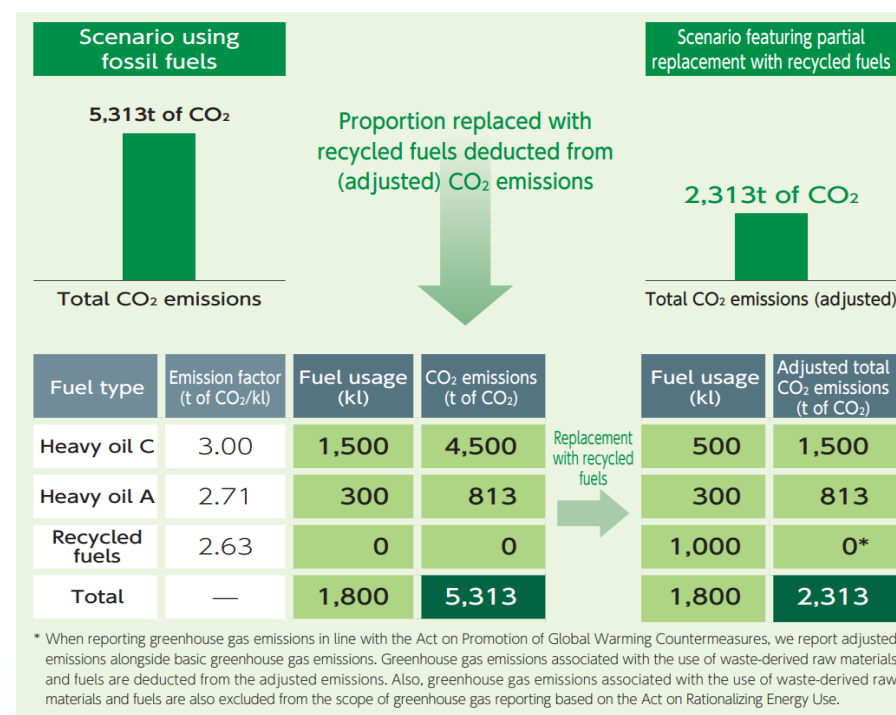
# Reduction of Greenhouse Gas Emissions and Building a Recycling-Oriented Society through Industrial Waste Recycling

## 1. Substituting fossil fuel to recycled fuel

	Shipment (FY2022)	Equivalent (calorific value)
Recycled heavy Oil	49,000kL	<b>Heavy oil A 40,000kL</b>
Supplemental fuel	195,000t	<b>Coal 150,000t</b>

The amount of fossil fuel consumption reduction by substituting to recycled fuel

## 2. The GHG emissions reduction effect of substituting fossil fuel to recycled fuel



An example of GHG emissions reduction effect of substituting fossil fuel to recycled fuel

