

Background

About 40 million tons of general waste generated annually



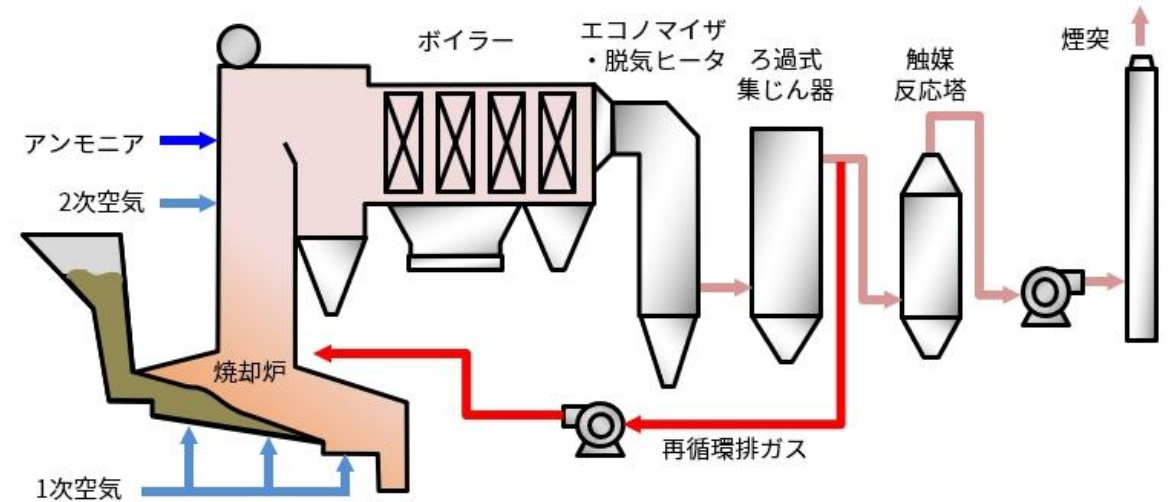
Large amounts of CO₂, a greenhouse gas, and NO_x and SO_x, air pollutants, are emitted during incineration



EGR (Exhaust Gas Recirculation) technology increases CO₂ concentration in exhaust gas for CCS and CCUS

On the other hand ...

Impact of EGR on NO_x formation is unknown



Example of EGR^[1]

EGR : Exhaust Gas Recirculation

CCS : CO₂ Capture and Storage

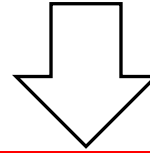
CCUS : CO₂ Capture, Utilization and Storage

出典 [1] (株)TAKUMA

Objective ▪ Contents

Fuel-NO_x (NO, N₂O) formation behavior emitted
during waste combustion

GWP of N₂O: 310



Contents

- ✓ Installation of new fluidized bed combustion equipment
- ✓ Fixed-quantity feeding test using a screw feeder
- ✓ Continuous combustion experiments and analysis of exhaust gas under various conditions