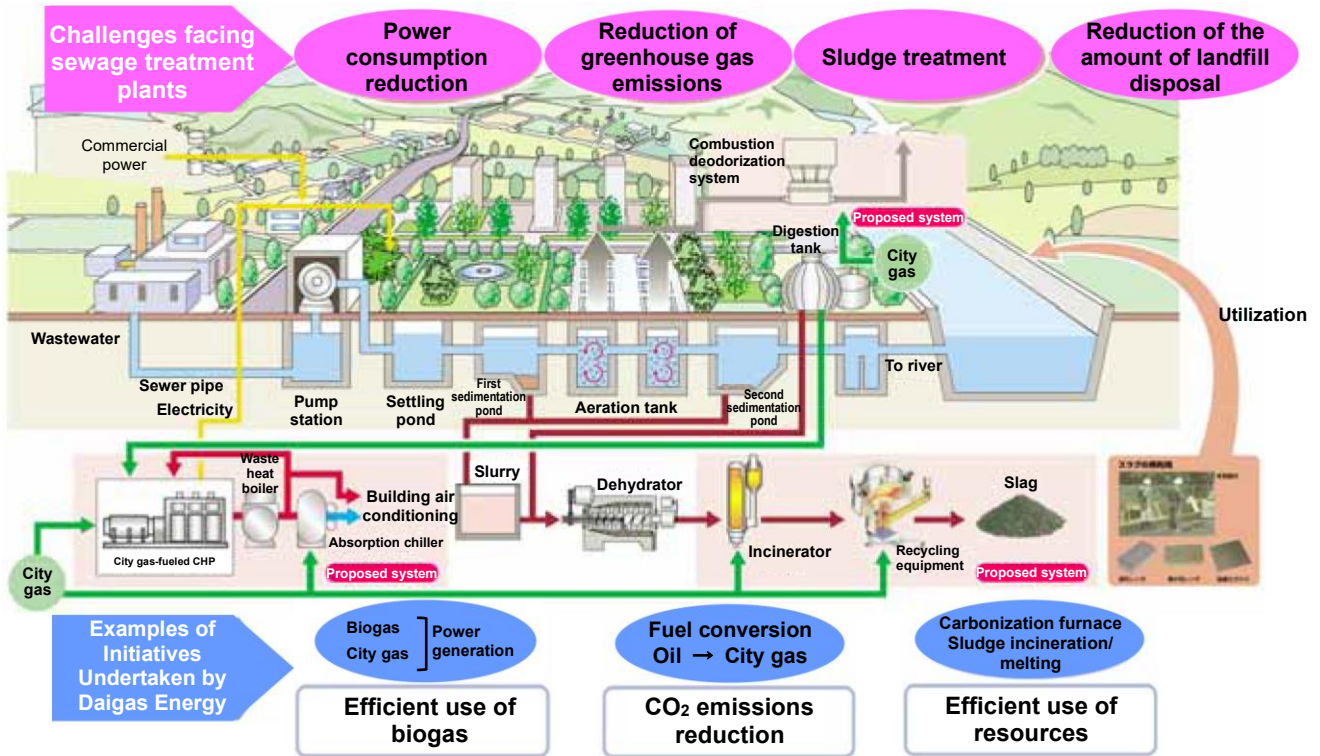


# City Gas Introduction System at Sewage Treatment Plants

We propose a system for energy saving and environmental impact reduction made possible by the introduction of city gas.

## Rendered Image of Introduction of City Gas Utilization Technology to a Sewage Treatment Plant



## Overview of City Gas Utilization Technology for Sewage Treatment Plants

### 1. Biogas Combined Heat & Power (CHP)

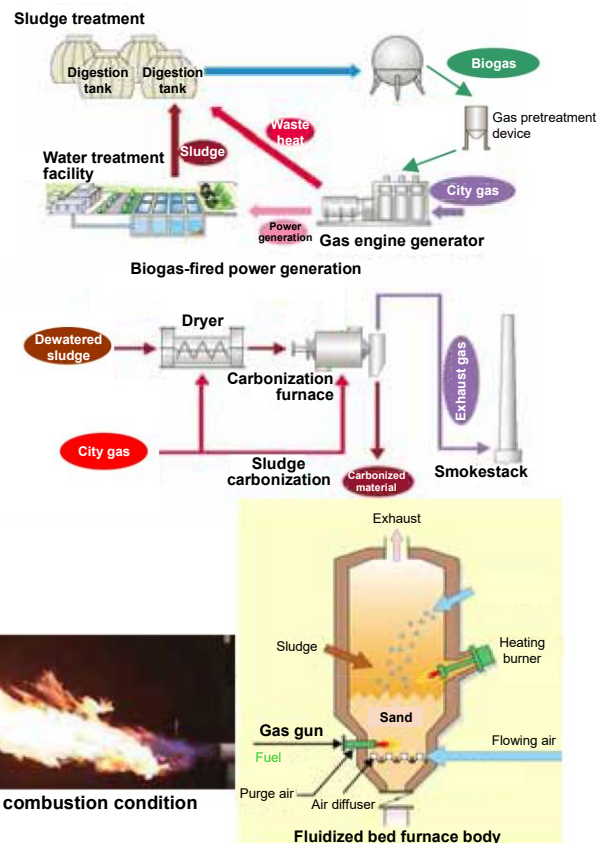
- Stable power generation by combining biogas and city gas
- Reduction of power and fuel consumption through highly efficient power generation by CHP and exhaust heat utilization (digestion tank heating)
- Introduction of a biogas pretreatment system for high-efficiency operation

### 2. Sludge carbonization

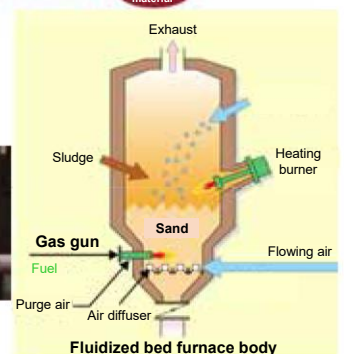
- Produces carbonized materials that can be used as fuel and other purposes from dewatered sludge with the aim of recycling sewage sludge
- Reduces greenhouse gases generated during sludge incineration by installing a carbonization furnace

### 3. Sludge incinerator/melting furnace

- Reduces CO<sub>2</sub> emissions and improves ease of operation by using clean city gas as auxiliary fuel



Gas gun combustion condition



Fluidized bed furnace body