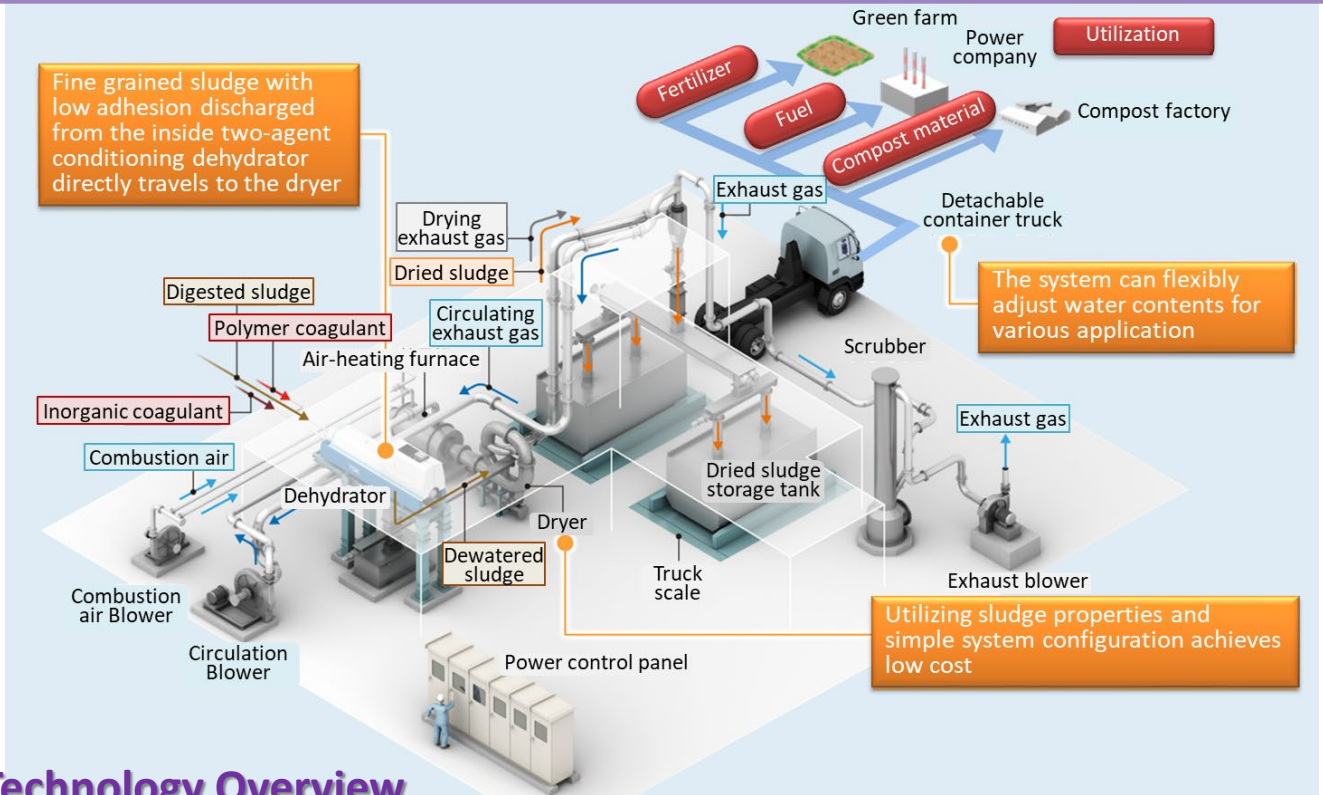


Demonstration of Sewage Sludge Conversion to Fertilizer and Fuel with Dewatering and Drying System

Implementer: The consortium of Tsukishima Kikai Co., Ltd., Sun Eco Thermal Co., Ltd., JS, Kanuma City, and Kanuma City Agriculture Public Corporation

The simple mechanism enabling efficient sludge dewatering and drying. Adjustability to any water content rate achieves various applications



Technology Overview

- The simple system by unifying dewatering device and dryer, fewer pieces of equipment.
- Water content rate is adjustable for various applications with the temperature control of air-heating furnace.
- Save man power with the automatic control of dewatering and drying system.

Achievements

Dewatering/Drying

- **Water content rate:** adjustable at **10-50%**
- **Fuel (heavy oil) consumption: 275L/t-ds***
When water content rate of dried sludge is 30%

Use as fertilizer

- **Reduce chemical fertilizer cost by 60%** at fertilizer effect test
- Meet the standard of fertilizer control low

Use as fuel

- **Calorific value: 15MJ/kg and over**(JIS Z 7312)
- Safe storage, stable combustion