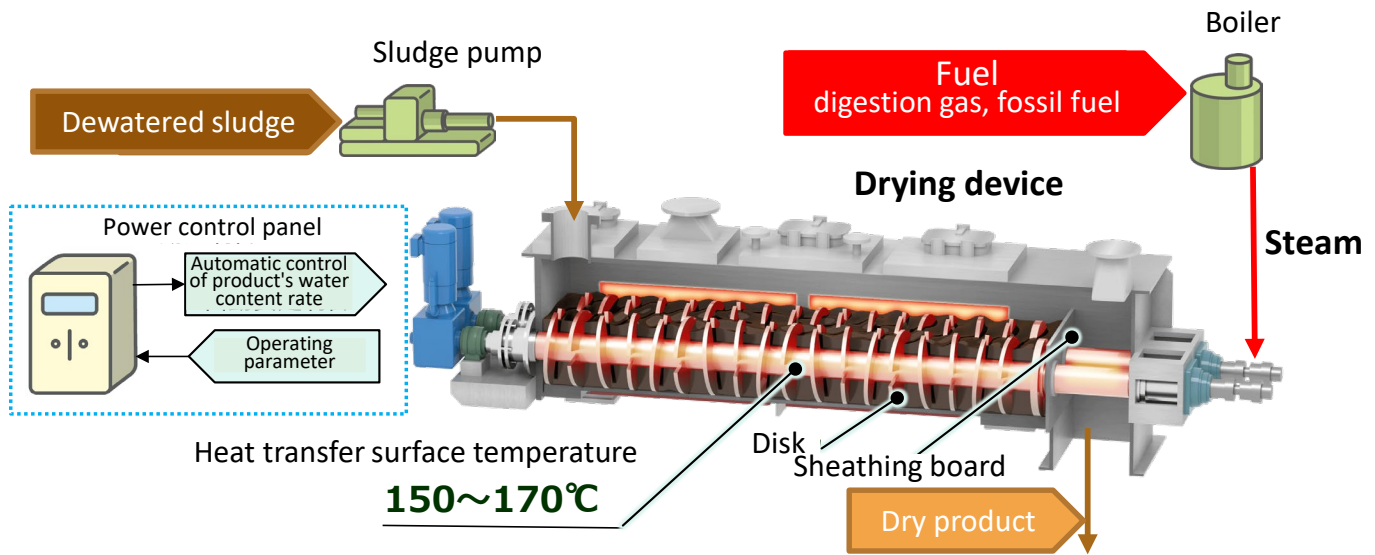


Sludge Property Fluctuation-adaptive Steam Drying System

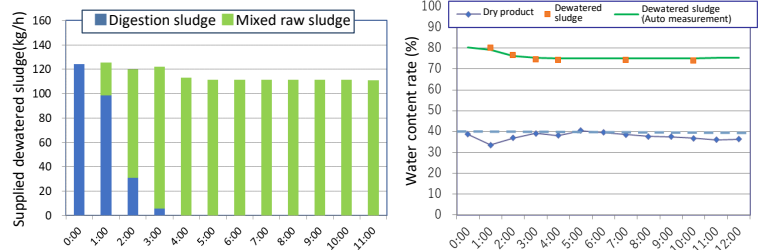
Developer: Swing Engineering Corporation

Consolidating sewage sludge in wide-area and collaborative manners may cause fluctuations in sludge property. The system allows dry products stable the water content rate by automatic control and significantly reduces fuel consumption by using low-pressure steam as a heat source.



Automatic stable control of the water content rate of dry products

Automatic control of operating parameters such as the height of the dam board and steam pressure achieves stable producing dry products



Property fluctuation test example of supplied sludge

Scope of application: Mixed sludge or anaerobic digested sludge, Supplied sludge: 72-86% water content and 60-92% organic component ratio for using dry products as fuel, Dry products: 20-40% water content

Needs

- Utilizing sewage sludge with various properties as fuel/fertilizer
- Use digestion gas generated from the existing facilities or digestion facilities under consideration as a supplemental fuel

Benefits

- Producing dry products responding to sewage sludge fluctuation
- Reducing fuel/power consumption and LCC than the conventional technologies