

Sludge reduction and recycling as fuel

Feature

- The system dries high moisture content sludge without using fossil fuel (moisture content can be reduced to about 10%).
- Using the dry sludge as power generation fuel reduces landfill to about 5%, compared to dehydrated sludge. No landfill will be realized if the dry sludge is used as the raw material and fuel for cement manufacturing.
- Dried sludge in a particle diameter and gravity suitable for easier handling by pneumatic transportation.

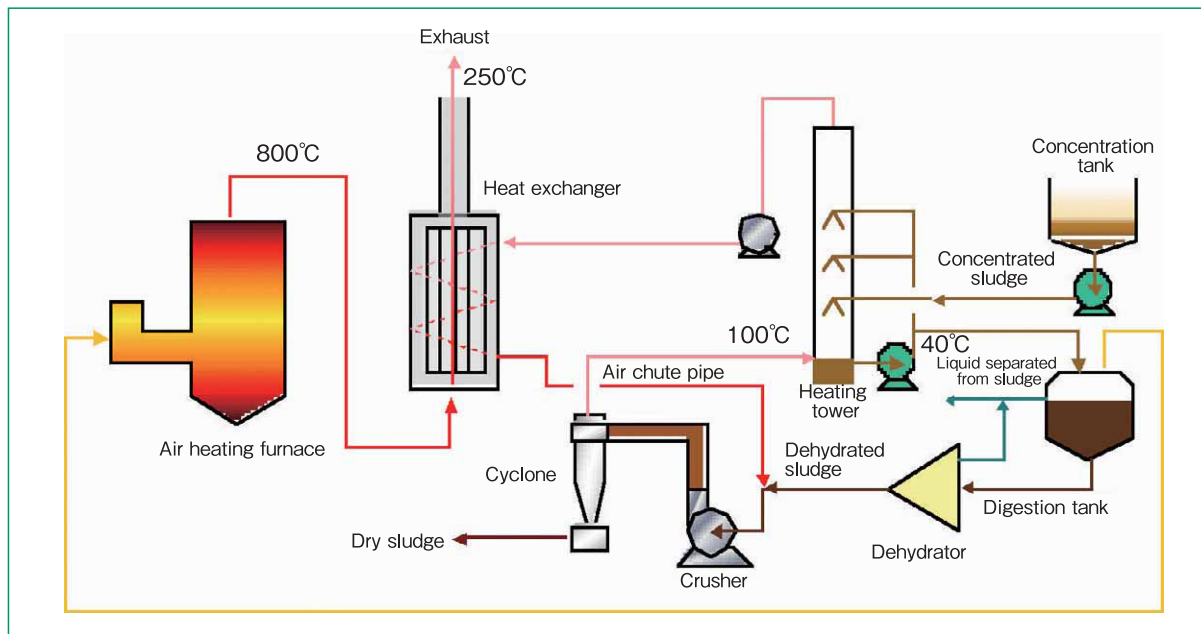
Overview

(Technical principles, actions, etc.)

The system burns gas produced during the sludge digestion process to dry sludge by heated airflow and converts moisture taken from sludge into steam, which is used for digestion to heat sludge. The dehydrated and dried sludge is in dark brown granule or powder. About 75% of the dried sludge consists of flammable components of a low calorific value equal to about 55% that of steam coal. Largest capacity of actual plant of the system is about 90 tons of dehydrated sludge per day.



Dried sewage sludge



Digested sludge drying flowchart

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