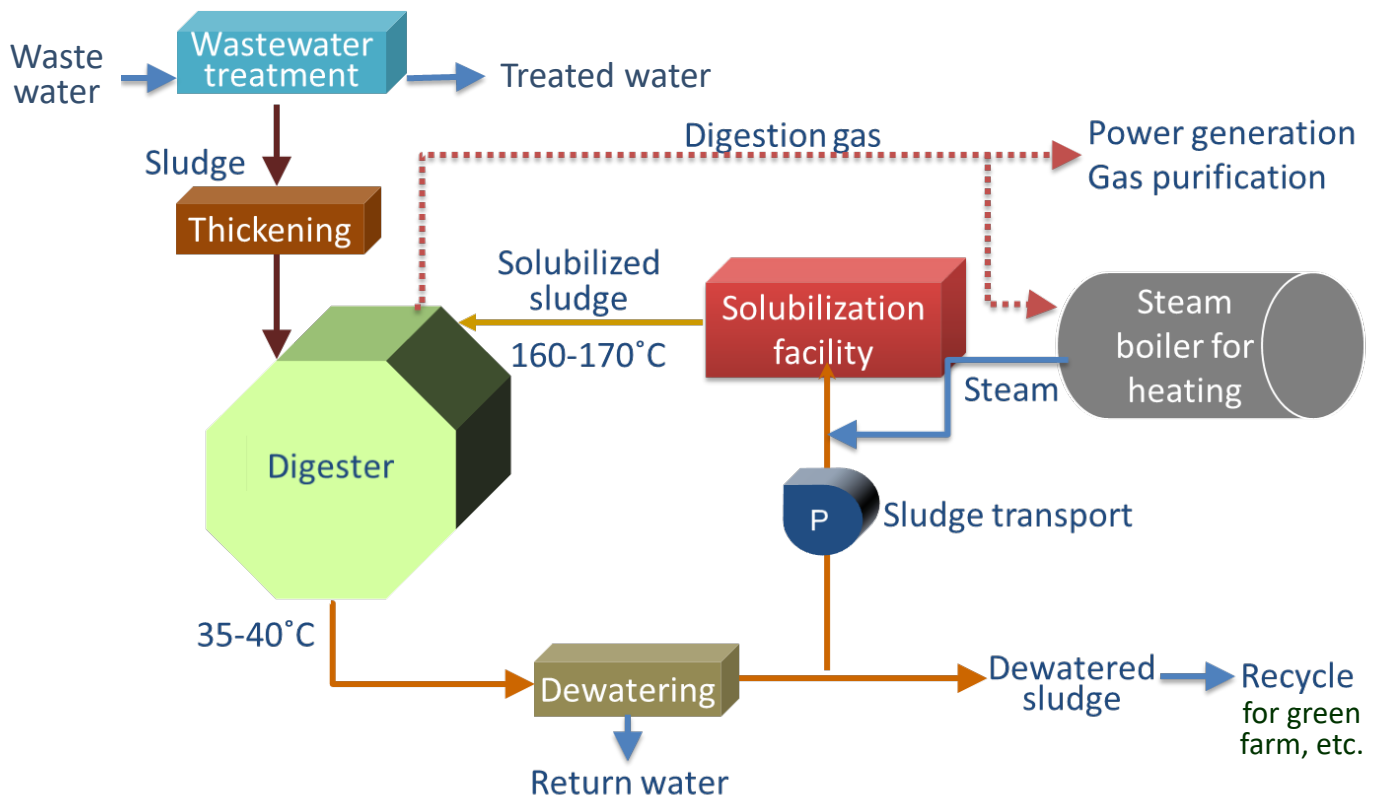


High-performance Anaerobic Digestion System with Thermal Hydrolysis Unit

Developers: Mitsubishi Kakoki Kaisha, Ltd.

The system **thermally reforms** sludge into easy decomposable organic matter and **returns it to a digestion tank**. It **increases gas generation, shorten digestion periods** and **reduces sludge volume** by the improvement of dewatering performance



Needs

- Solubilization treatment with the equivalent energy to the conventional digestion heating
- Apply to the existing digestion facilities with compact equipment
- Accept local biomass to WWTP to improve its power self-sufficiency

Benefits

- The increased organic matter decomposition rate increases digestion gas generation by 10-30% and reduces sludge generation to 1/2 to 2/3. The utilization of generated gas makes profits and reduces sludge disposal costs
- A shorter digestion period of 15 days, 20-30 days of the conventional process, makes smaller facilities than the traditional anaerobic digestion process