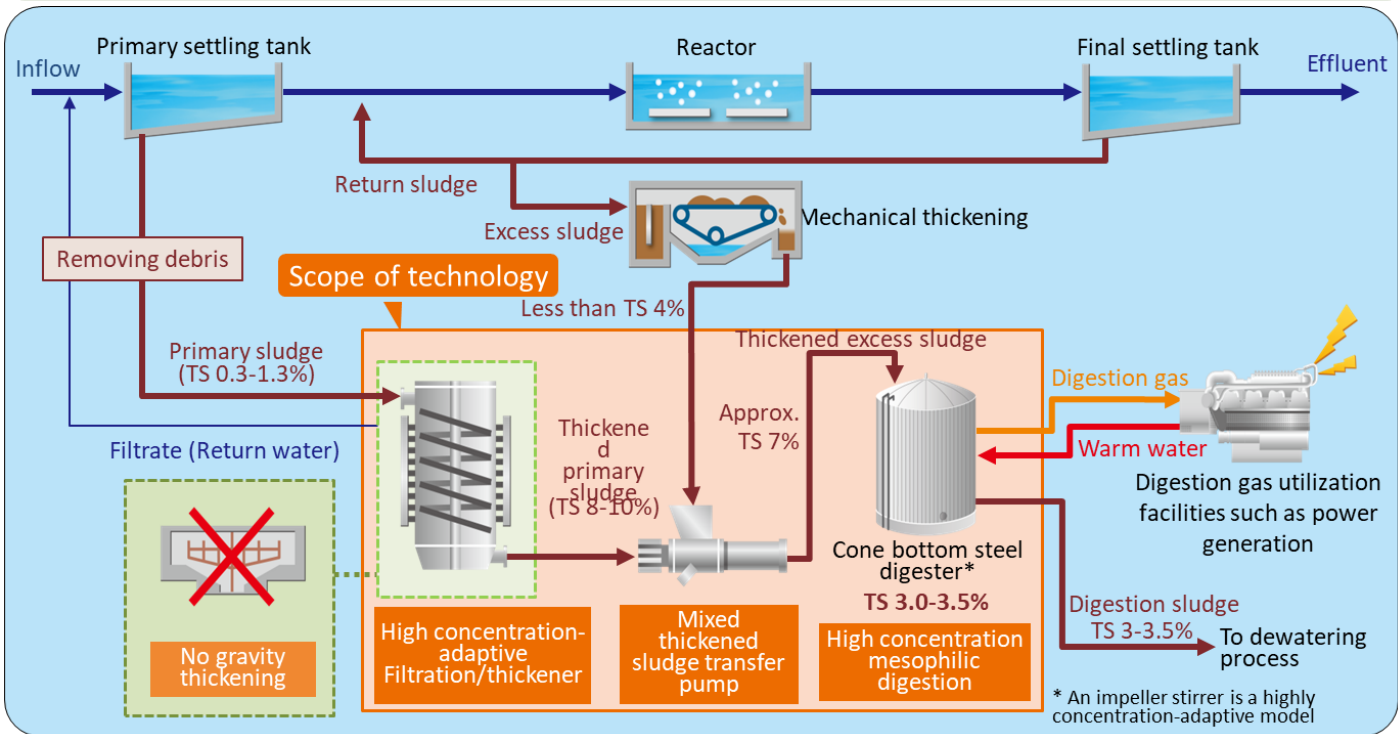


# Enhanced Thickening with Filtration and Mesophilic Digestion System

Developers: Tsukishima Kikai Co., Ltd.

High filterability with “micro pressure filtration” increases sludge concentration, reduces digestion tank volume, secures utilizable digestion gas yields and reduces costs for construction and O&M.



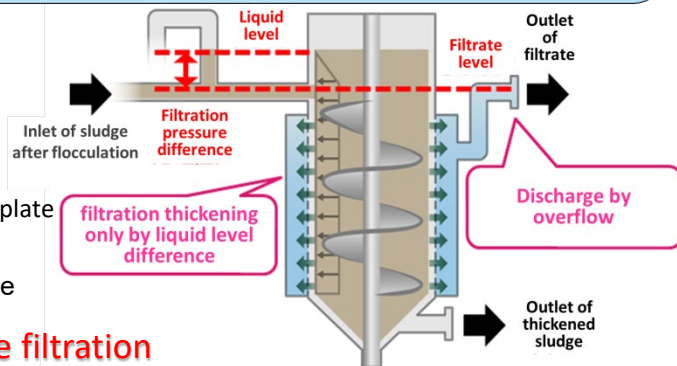
## The small pressure difference in/out of the screen

The weak pressure on sludge prevents clogging caused by the cake layer

\*The digestion facilities is only applicable to a cone bottom steel plate digestion tank registered on New Tech Implementation Program. Stirrers should be high concentration-adaptive models.

\*Application to other digestion tanks except mentioned above requires consideration

Scope of application : **WWTPs adopting separate filtration**



## Needs

- Reduce the required capacity of a new digestion tank and space-saving

## Benefits

- The concentration of primary sludge is controllable at any level
- Digestion tank's capacity, the heating calorific value, and facilities' electric consumption are reducible by reducing supplied sludge to the tank
- Improve solid's recovery rate in the primary sludge's thickening process