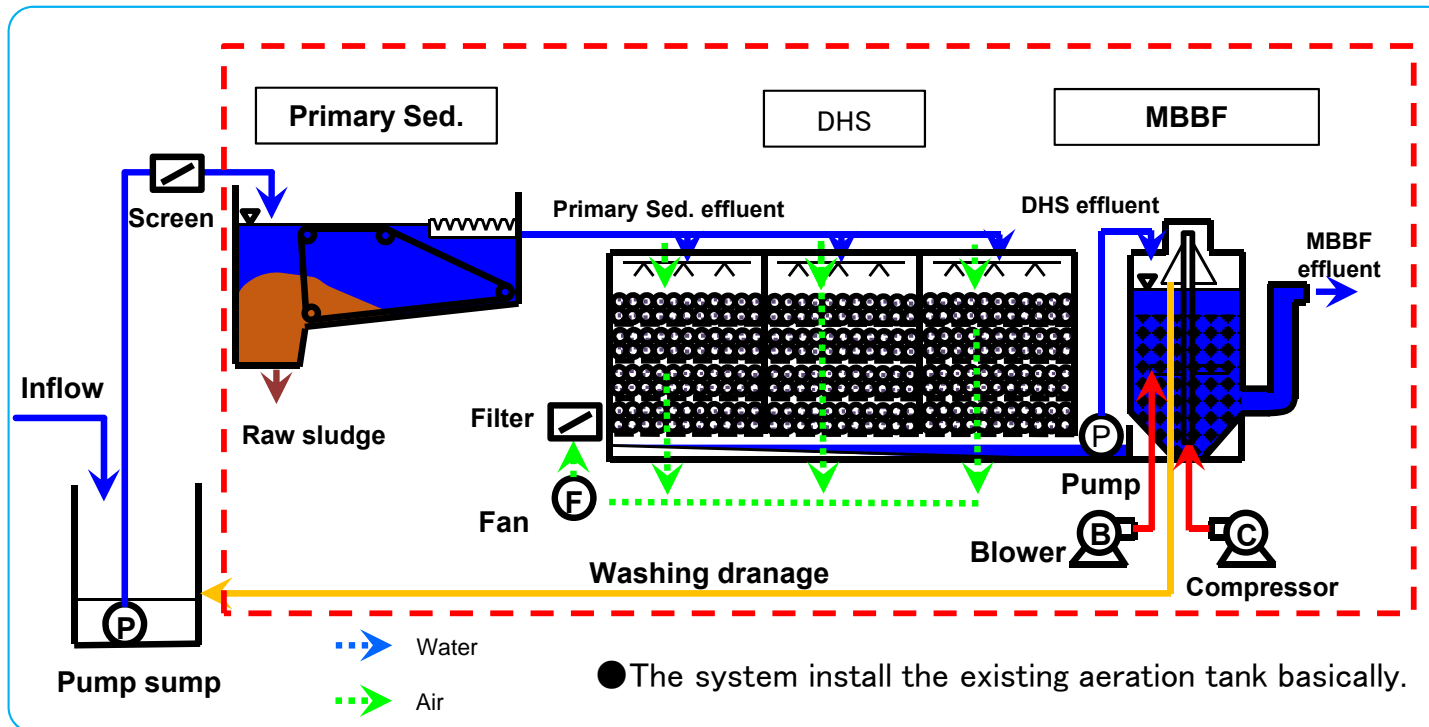


- **Joint research organization** : SANKI ENGINEERING Co.,Ltd. , Tohoku University, Kagawa College, Kochi College, Japan Sewage Works Agency and Susaki City
- **Field** : Susaki-City Wastewater Treatment Plant (WTP) (Kochi prefecture)
- **Summary of demonstration**

In order to ensure the sustainability of sewage treatment in the population decreasing area, it is required that a technology of which treatment capacity can be changed flexibly according to the decrease of sewage inflow.

The new sewage treatment technology “the DHS-MBBF<sup>※</sup> system” have an ability of tracking for flow rate change and reducing the life cycle cost according to the inflow. This energy-saving system is a sustainable technology for facility replacement of plant Conventional Activated Sludge (CAS) process with excessive processing treatment capacity.

※ DHS : Down-flow Hanging Sponge, MBBF : Moving Bed Biological Filter



Flow diagram

## Results

- Improve the management cost of WTP
- Reduce the energy consumption in WTP
- Easy operation  
→ the system can be operated by inexpert about sewage treatment



Field detail