

# Dual DO Control System in Oxidation Ditch (OD) Process

## Background

OD process is a standard technology adopted at over 1000 small-scale WWTPs in Japan. The energy-saving OD process satisfies municipalities' need for retrofits.

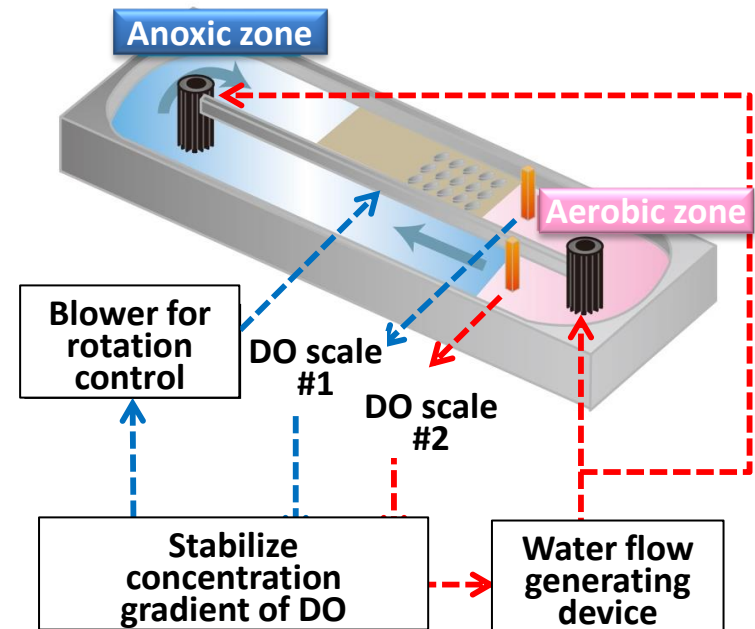
## Technology overview

- Automatic control system for aeration volume and circulation flow rate individually to stabilize concentration gradient of DO.
- Create an aerobic and anoxic zones stably

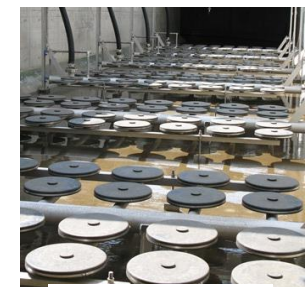
## Benefits

- Stable effluent quality or constant concentration of BOD and nitrogen.
- Reduce power consumption by 30% when compared to the conventional vertical OD.
- Adaptable to high load operation such as an excess inflow or high concentration of BOD and nitrogen.

**Individual feasibility study is required for adoption**



Water flow generator



Air diffuser