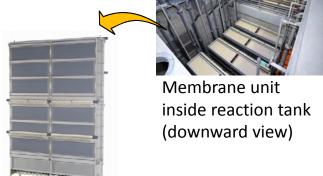
Overview of A-JUMP

A-JUMP(Advance of Japan Ultimate Membrane Bioreactor Technology Project)

The government-initiated project to demonstrate the validity of MBR to an actual system with model municipalities.(FY2009~2010)

Model cases : renovated MBR demonstration project

- Olmmersed MBR combined with biological phosphorous removal
- ODemonstration of the applicability of MBR based on remodeling and utilization of existing facilities
- OReview efficiency based on use of air-lift pumps, etc.
 - O Advanced treatment using existing facilities is possible, without having to expand facilities
 - O Significant reduction of power consumption is possible
 - OTreatment capacity: 5,000 m³/day
 - OTreatment method: Anaerobic-Anoxic-Oxic MBR



MF membrane (flat membrane) unit

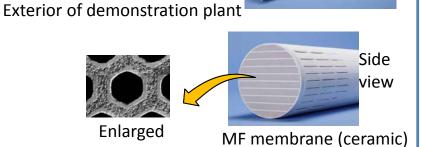
Model cases②: satellite MBR demonstration project

- OMBR using ceramic MF membrane
- Opemonstration of applicability of MBR in satellite treatment systems.
- OReview operating efficiency such as of the establishment of high permeation flux that makes use of the characteristics of ceramic
 - O Possible to ensure favorable treatment water quality that is adapted to reuse
 - O Stable treatment even at pump locations, etc. is possible

OTreatment capacity: 360 m³/day

OTreatment method: Circulating nitrification-

denitrification MBR



Exterior

Satellite treatment system: It incorporates an intermediate treatment facility that intakes sewage from sewage pipes before they reach the sewage treatment plant to facilitate reclaimed water use in distant areas.



Results of A-JUMP are published as "Guidelines for Introducing Membrane Treatment Technology into Sewerage [2nd edition]"