Demonstration of ICT-based advanced process control and remote monitoring and diagnosis technology for efficient wastewater treatment plant operation

Project Members

Consortium between Toshiba Infrastructure Systems & Solutions Corporation, Japan Sewage Works Agency,

Fukuoka Prefecture and Fukuoka Sewerage Management Center

Demonstration Field

Homangawa wastewater treatment plant in Fukuoka prefecture

Demonstration Overview

The novel aeration control technology based on using NH_4 -N sensor was evaluated in the demonstration wastewater treatment process to verify that the energy consumption (associated with aeration) was reduced while keeping the effluent quality to meet the pre-specified required effluent quality. In addition, it was demonstrated that maintainability of this control technology can be improved by introducing innovative remote operational support technology.

