Demonstration of Low cost and energy saving type of high concentration anaerobic digestion technology for small scale sewage treatment plants

Project Operator

Consortium between Ohara Corporation, NISHIHARA Environment Co., Ltd, NJS CO., Ltd., Nagaoka University of Technology, Hokkaido University, Nagaoka city

Demonstration Field

Nakanoshima Water Purification Center in Nagaoka-City, Niigata Prefecture

Project Overview

Demonstrate improvement of stability, digestion and economical efficiency in a system for reducing sludge volume and recovering gas by using unit-type compact horizontal sludge digester to digest highly concentrated thickened sludge obtained by using a dehydrator as a concentrator in two stages.



- •Verify stability of dehydrator in two stage usage.
- •Verify digestion efficiency on digester for high-concentration anaerobic digestion.
- •Verify economical efficiency compared with conventional technology.

(4) Biogas generation

increasing maintainability.

Reducing power consumption of entire facility by biogas generators to be operated with power control according to biogas production.