

# *B-DASH 2017 Adopted Three Demonstrations that JS joins: Technologies for energy generation, energy saving, low carbon and improvement of treatment performance*

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Japan Sewage Works Agency (JS) is pleased to announce that B-DASH Project 2017\*<sup>1</sup> adopted the following three demonstration projects that JS proposed as one of the research collaborators.

JS, as a solution partner, actively promotes R&D and practical application of new technologies that provide solutions for various problems that municipal WWTPs have: They are reuse of wastewater resources and energy, energy saving, low-carbon of sewerage facilities, functional maintenance, and improvement.

## **(1) Demonstration of the practical application of local energy production/consumption technology with highly efficient digestion system**

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- Project Implementer: Collaborative research group of Mitsubishi Kakoki Kaisha, Ltd., Kyushu University, JS, Karatsu City
- Demonstration Field: Karatsu City WWTP, Karatsu, Saga
- Summary of Demonstration: Highly efficient digestion system is the combination of the following technologies:
  - Utilization of buried biomass including raw garbage
  - A mixing digester that needs no electric power
  - Solubilization facility that increases biogas generation
  - Fuel cell with high efficiency of electric power generationThe demonstration verifies the treatment performance, the improvement of energy recovery rate, etc.

## (2) Demonstration of the practical application of sludge incineration technology with power generation for the reduction of greenhouse gas emission

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- Project Implementer: Collaborative research group of JFE Engineering Corporation, JS, Kawasaki City
- Demonstration Field: Iriezaki Sludge Treatment Center, Kawasaki
- Summary of Demonstration: Sludge incineration technology with power generation is the combination of the following technologies:
  - Highly efficient power generation technology using waste heat from sludge incineration facilities
  - Local mixing air blow technology that is applicable to the existing sludge incineration facilitiesThe demonstration verifies the self-sufficiency of power supply and major reduction efficiency of greenhouse gas emission, etc.

## (3) Demonstration of the technology for the treatment performance improvement of a final settling tank

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- Project Implementer: Collaborative research group of Metawater Co., Ltd, JS, Matsumoto City
- Demonstration Field: Ryoshima WWTP, Matsumoto, Nagano
- Summary of Demonstration: The technology improves the treatment performance of a final settling tank with no extension. A filtration device is installed using the tank body. The demonstration verifies that the technology improves the treatment performance of a final settling tank in quantity/quality at a low cost.

*\*1: B-DASH Project (Breakthrough by Dynamic Approach in Sewage High Technology Project) has been conducted by Ministry of Land, Infrastructure, Transport, and Tourism (MLIT) of Japan. The Project aims to accelerate R&D of new technologies and their practical applications, enhance costs reduction in sewage works and the production of renewable energy, and facilitate the global presence of Japanese companies in their water business. In B-DASH Project, all demonstrations are carried out as a contract research of National Institute for Land and Infrastructure Management (NILIM.)*