

Model Project for Improvement of Water Environment in Asia

～Business Overview and Introduction of Japanese Technology～

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Ministry of the Environment
Government of Japan



Model Project for Improvement of Water Environment in Asia

- To support the improvement of water environment in Asia-Pacific by disseminating appropriate water treatment and related technologies by Japanese private sectors.

Public inviting of project proposals

MOEJ decides approved projects and gives financial support.

First year

Feasibility Study

Second year

Pilot Project

Third year

Developing Business Models

Supporting the development of various types of business models in the Asia-Pacific region



Local seminar and site visit (February 2020, Fiji)

Technology	Wastewater recycling using Membrane deionization and desalination membranes
Location	Suburbs of Hanoi and Ho Chi Minh City in Vietnam
Implementer	Kobelco Eco-Solutions Co., Ltd.

Outline of the technology

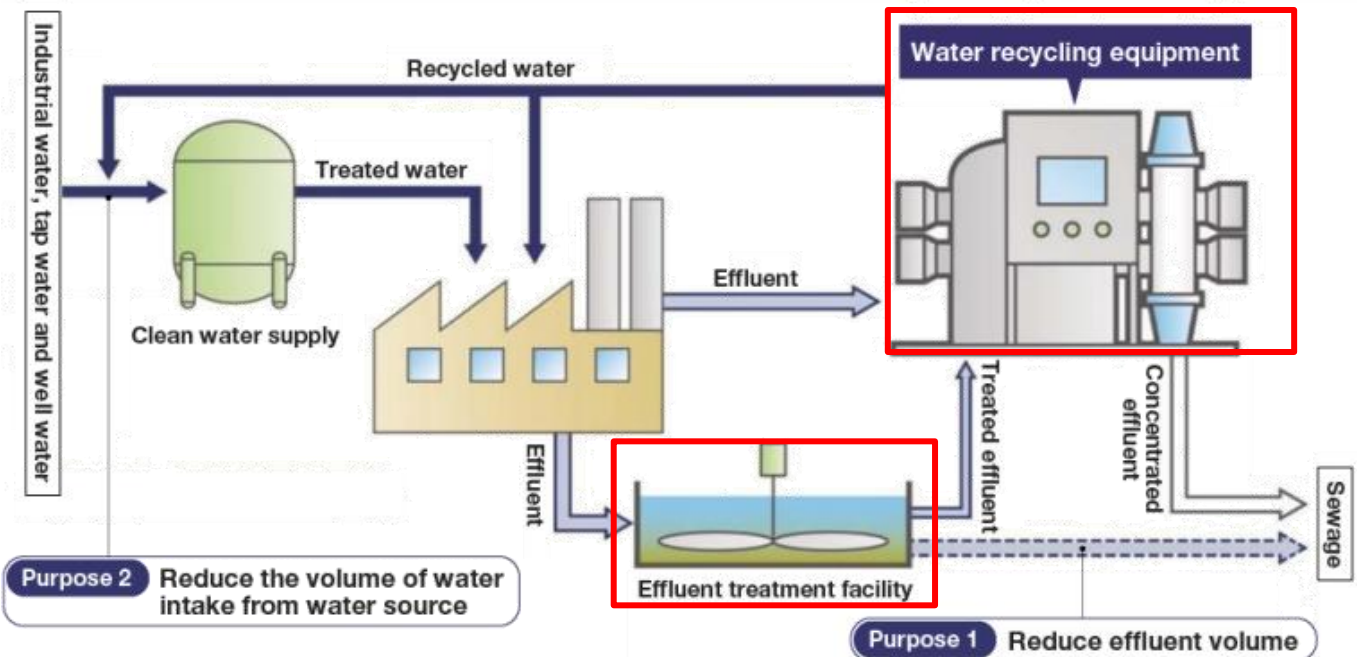
- Membrane Treatment Technologies
- Water recycling equipment

Background and Challenge

In Vietnam, the dyeing industry consumes a large amount of water and places a high burden on the environment. Therefore, **wastewater treatment technology** and **water-saving technology** through water recycling are required.

Expected results

- Reduction of Environmental Load
- Water Conservation and Cost Reduction



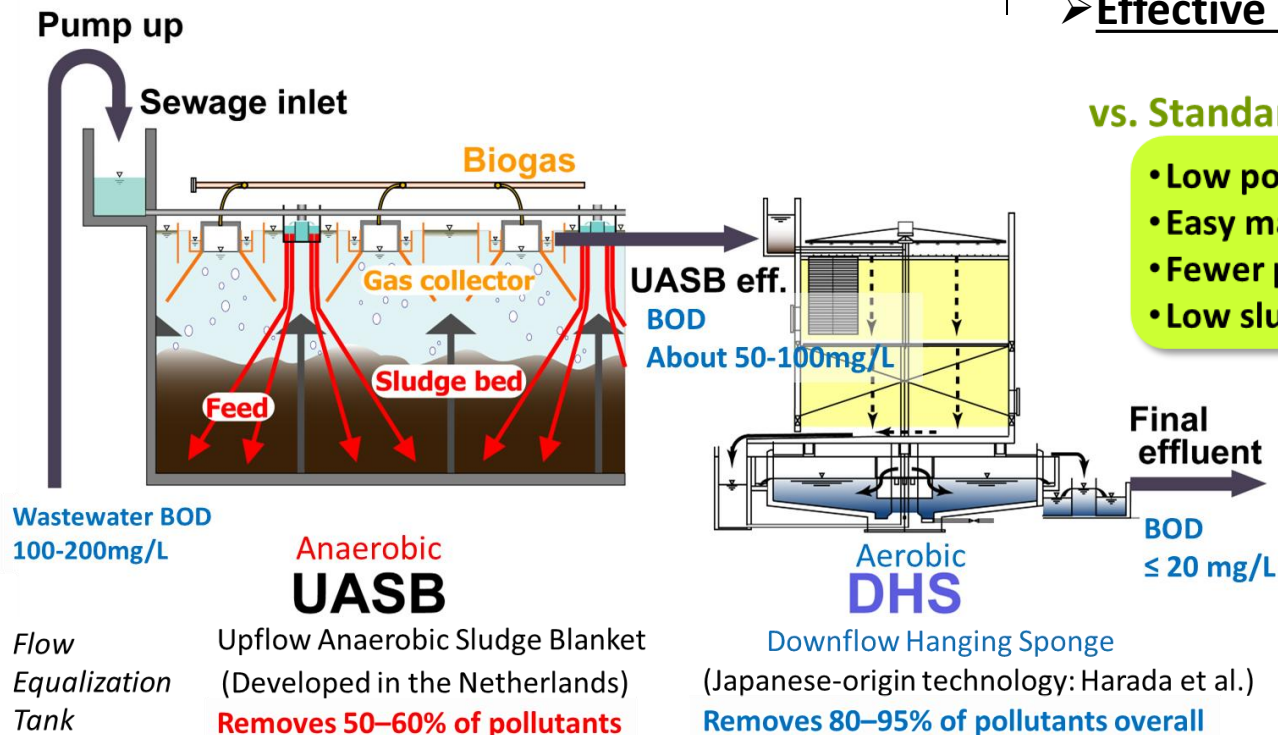
More information



Technology	Combination of Anaerobic UASB Reactor and Aerobic DHS Process
Location	Inside the premises of sewerage facility (pumping stations) in Kota Kinabalu
Implementer	NJS Consultants Co., Ltd., DHS Technology Co., Ltd., Sanki Engineering Co., Ltd. and Sekisui Plastics Co., Ltd. (joint venture)

Outline of the technology

- USAB (Upflow Anaerobic Sludge Blanket)
- DHS (Downflow Hanging Sponge)



Background and Challenge

Pollution is becoming more serious in the Likas Bay in Kota Kinabalu City due to rapid urbanization, aging of sewerage facilities, and lack of maintenance.

Energy-saving and low-running cost wastewater treatment technology is required.

Expected results

- Improving water quality and reducing odor in the Likas Bay
- Reducing maintenance costs through energy saving
- Effective use of land through compact facility

vs. Standard Activated Sludge Process

- Low power consumption (pumps and fans) – about 1/3
- Easy maintenance (periodic inspection)
- Fewer pieces of equipment
- Low sludge production – about 1/3

More information

