

Introduction of “Model Project for Improvement of Water Environment in Asia”

Water Environment Division,
Environmental Management Bureau,
Ministry of the Environment, Japan

MOEJ's Strategies to Improve Water Environment in Asia

Water Environment Conservation in Asia

Collaboration

Water Environment Partnership in Asia (WEPA)

Knowledge sharing and solution finding on Water Environment Governance



Model Project for Improvement of Water Environment in Asia

Addressing water pollution issues using Japanese Technology



Water Environment Partnership in Asia (WEPA)

- Recognizing the improvement of water environment governance is essential to solve water pollution issues in the Asian region, WEPA was launched in 2004 at the initiative of the Ministry of the Environment, Japan.
- WEPA focuses on sharing knowledge and experience as well as developing capacity to create a better water environment. The partnership comprises 13 countries, and activities run on five-year cycles. The 4th phase started in April 2019.

WEPA consists of partners in **13** Asian countries

1. Democratic Socialist Republic of Sri Lanka (Sri Lanka)
2. Federal Democratic Republic of Nepal (Nepal)
3. Japan (Japan)
4. Kingdom of Cambodia (Cambodia)
5. Kingdom of Thailand (Thailand)
6. Lao People's Democratic Republic (Lao PDR)
7. Malaysia (Malaysia)
8. People's Republic of China (China)
9. Republic of Indonesia (Indonesia)
10. Republic of Korea (Republic of Korea)
11. Republic of the Philippines (Philippines)
12. Socialist Republic of Viet Nam (Viet Nam)
13. Union of Myanmar (Myanmar)

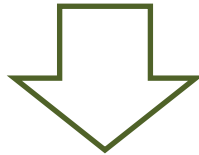


Model Project for Improvement of Water Environment in Asia

- 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

First year



MOEJ decides approved projects and gives financial support.

Feasibility Study

Second year



Pilot Project

Third year

Developing Business Models



- So far, a total of 31 projects have been approved, and 11 projects have been approved in Vietnam.
- Approved projects are in the fields of; domestic wastewater treatment, Industrial wastewater treatment, Phosphorus resource recovery system, control of Non-point source pollution.

Model Project for Improvement of Water Environment in Asia

Challenges

- Cooperation of local actors including the governments is key to the smooth project implementation.
- Facilities and O&M cost, strong enforcement of pollution control laws by local governments and capacity development in management, O&M can be challenge for commercialization.



Project list to introduce today

City	Project name [Implementer]	Classification	Technology	Fiscal Year [Project Stage]
Ho Chi Min	Promotion of Textile Dyeing Industrial Wastewater Treatment [Kobelco Eco-Solutions Co., Ltd., etc.]	Textile Dyeing WW	Biological (USDB, MBBR) Redox (Heavy metals) Physico-chemical (color)	2013 [FS] 2014-2015 [PS]
Da Nang	Project for Improving the Water Quality from the Wastewater Treatment Facility and its Operation in Fishery Processing Factories [The General Environmental Technos, etc.]	Fishery processing WW	Bioaffinity Polyvinyl alcohol (PVA) gel	2014 [FS] 2015-2016 [PS]
Ho Chi Min	Dissemination Project of AOSD Control System as the Advanced and Cost-Saving Wastewater Treatment Technology for Restoration [Foundation for Advancement of International Science, etc.]	Organic WW	Automatic Oxygen Supply Device (AOSD) Biological optimized control system	2015 [FS] 2016-2017 [PS]
Thai Nguyen	Dissemination of Hybrid Subsurface Flow Constructed Wetland Systems in Viet Nam [Tusk Co., Ltd., etc.]	Livestock WW	Hybrid subsurface flow constructed wetland system	2016 [FS] 2017-2018 [PS]

[Project Stage] FS : Feasibility Study, PS : Pilot Study

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Quang Nam	Water Environment Improvement Project by the Reduction and Purification of Highly Concentrated Waste Liquid [Kyowakiden Industry Co.,Ltd., etc.]	Industrial WW	Evaporation dehydration, Biological treatment	2017 [FS] 2018-2019 [PS]
Ho Chi Minh	Project of Recycling Wastewater from Viet Nam's Textile Dyeing Factories [J TOP Co., Ltd., etc.]	Industrial WW	Automatic regeneration activated carbon filtration system	2021[FS] On going

[Project Stage] FS : Feasibility Study, PS : Pilot Study