

Efforts for City to City Cooperation - Practical examples -

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Osaka City's urban management

Problems in the past (Water, Air Pollution, Solid waste) 1960's





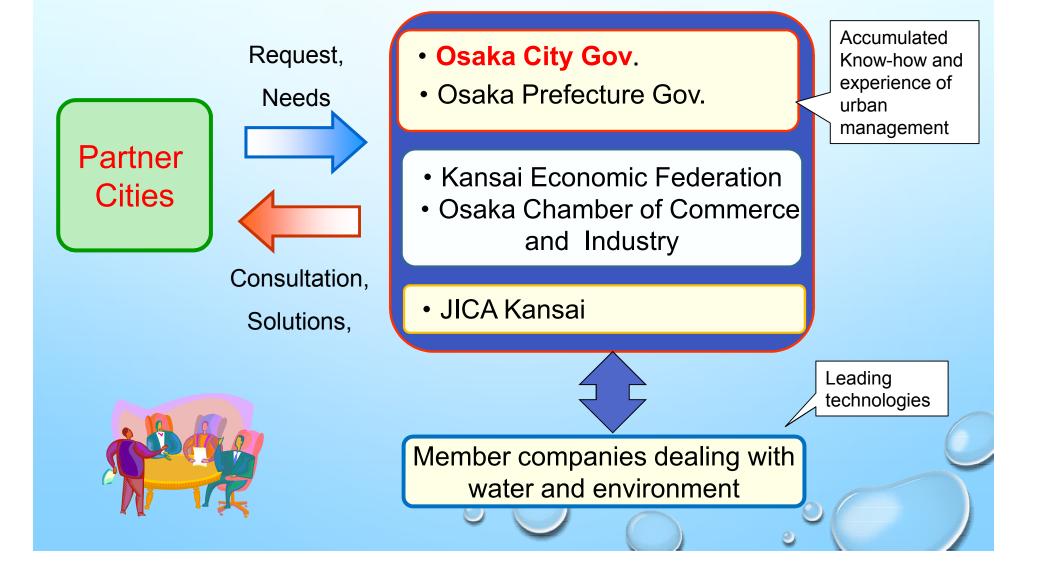


After extensive countermeasures



OWESA

Osaka Water & Environment Solutions Association





Our Efforts for HCMC Ho Chi Minh City

(Vietnam)

Cooperation between Osaka and HCMC

Memorandum of Understanding in the field of water and environment signed in July 7, 2011, renewed in 20 Mar. 2016

Purpose is to promote

- Economic relation
- Environment and water management, environment conservation, water, urban drainage wastewater treatment, solid waste



Memorandum of Understanding on Developing Low-Carbon City

singed in 22 Oct.2013, renewed 6 Sep. 2016

- Purpose is to promote
- Capacity development for managing climate change in HCMC
- Project finding utilizing JCM (Joint Crediting Mechanism) scheme
- Awareness raising of global warming prevention and information

sharing



Cooperation Menu for sewerage development in HCMC

1. Dispatch technical experts

 Dispatch JICA long/short term sewerage experts to SCFC that is responsible for sewage and storm water drainage (2011-2014)

2. Capacity Building

 Organize training course (group / dedicated for Vietnam) in Osaka Total 109 persons



3. Project formation

On site investigation by sewage experts



Project implementation for sewerage management for HCMC



Project for Capacity Development on Sewerage Management in HCMC (2011.9~2014.9)

- Dispatch long(2persons)/short(10persons) term Experts from Osaka city
- Capacity building for proper O&M of STP
- Sewerage Mapping and information system



Project for Capacity Improvement for Urban Drainage Management in HCMC (2013-2016)

- Efficient sewer cleaning inspection and repairing and safety management in O&M of sewer
- Sewerage Mapping and information system development
- Pipeline Rehabilitation Technique for aging pipes in HCMC



Program for Trenchless Sewer Rehabilitation Technology in Vietnam (2014-2015)

- · Pilot project for rehabilitation of aged pipe
- Establishment of technical criteria and estimating criteria of construction cost

Dedicated training course for Vietnam

As of 2017.8.31

Course	Target	Year / times	Participants from Vietnam
Group training	O&M of STP Storm water drainage	1991~/ 9 times	15
Dedicated for Vietnam	Sewerage Management Administrative management	2011~/ 7 times	94
Total			109

Total







Project formation for trenchless sewer rehabilitation

Solution

Problems





Our Efforts for Yangon

(Myanmar)

Our efforts in Yangon

Mission team of Kansai Economic Federation Study on "Formulation of the plan for sewerage system development in Myanmar" (MLIT Study)

Technical Exchange Program on Wastewater Management (CLAIR program)

Signing Memorandum of understanding on cooperation in key areas water, sewage, solid waste, urban planning

2015

2016

2017

2012

2013

2014

Capacity development of Sewer Pipes O&M and Rehabilitation Project (JICA Partnership Program, 2014 ~2016)

Study for staged sewerage development plan in Yangon. (MLIT Study, 2016)

Capacity development of Water quality management of STP Project (JICA Partnership Program, 2018 \sim)







Project implementation for wastewater management for Yangon



Study on "Formulation of the plan for sewerage system development in Yangon" (2012)

- Engineering Investigation on O&M of STP in Yangon
- Basic study on current situation of urban drainage



Technical Exchange Program on Wastewater Management (2013)

- Training course for O&M technique of STP
- Trenchless Sewer Rehabilitation Technology



Capacity development of Sewer Pipes O&M

- and Rehabilitation Project (2014-2016)
- Onsite training of O&M sewer pipe (inspection, cleaning, rehabilitation)
- Management of Sewerage Mapping and information system

Various Activities in 2016





The training of maintenance of sewer

Pilot project on improvement of old sewerage system



Field training for improving treated wastewater quality in sewage treatment

Next Project



Toward SDGs

To achieve the SDGs ,Osaka City will continue to provide various technical assistance and support capacity development for the self-sustainable O&M of sewerage system.

"Osaka Water & Environment Solutions Association"

With our support, solutions will be found!

Thank you for your attention





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