1. INTERNATIONAL COOPERATION BY JAPANESE WATER SUPPLY UTILITIES

This report presents examples of international cooperation by following four water supply utilities

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- Water and Sewer Bureau of the City of Kitakyushu
- Yokohama City Waterworks Bureau
- Saitama City Waterworks Bureau
- Chiba Prefectural Waterworks Bureau

1.1 OVERVIEW OF INTERNATIONAL COOPERATION BY JAPANESE WATER UTILITIES

Name of utility	Water and Sewer Bureau of the City of Kitakyushu (WSBK)	
Purpose	Utilize the water supply and sewerage technology owned by Kitakyushu City and help mitigate related challenges in foreign countries and stimulate local economies through water businesses and other activities.	
Activities	Since 1990, the Water and Sewer Bureau of the City of Kitakyushu (WSBK) has shared technical expertise and experiences with Asian countries regarding water treatment, water quality management, NRW reduction, and water service management. In Cambodia and Haiphong City of Vietnam, for example, WSBK has helped human resources development by training local utility staff. The utility has also encouraged water business in these countries by utilizing the friendly relationship and local trust built through their various activities.	
Primary projects	Cambodia1999-2002Dispatch of an expert and the Japan International Cooperation Agency (JICA) Partnership Program for the Phnom Penh Water Supply Authority2003-2006Capacity Building for Water Supply System in Cambodia 2 Capacity Building for Water Supply System in Cambodia - Phase 22012-2017Capacity Building for Water Supply System in Cambodia - Phase 32013-2015Project for Capacity Improvement of Water Supply Facility Management in Siem ReapVietnam	

 *1 All the information in this report were compiled by March 2017.

	2001-2003 2010-2012 2013-2015	Project for Water Sector Training Center in the Soc Vietnam Improvement Program for Water Treatment Meth Organic Substances in HaiPhong Improvement of Haiphong Water's Capacity of Dis Network Management	od against
	Myanmar		
	2013-2016	Capacity Improvement of Water Treatment Plant Mandalay	Operation in
	Indonesia		
	1991-1997	Project for Water Supply and Environmental Sanit Center in Indonesia	ation Training
	China		
	 2001-2003 Water Leakage Reduction in Dairen City 2005-2007 Improvement of Water Supply Reliability in Dairen City 2010-2012 Technical Cooperation for Surrounding Cities of Dairen City 		-
Primary Recipier	Primary Recipient Utilities		
Name of utility	Haiphong Water Joint Stock Company Case No. 1		
Name of utility	8 Provincial Cities in Cambodia Case No. 4		

Name of utility	Yokohama City Waterworks Bureau (YWWB)	
Purpose	 Mission as a public enterprise Placing "Support to other water utilities both domestically and globally" as one of the core activities, YWWB is promoting it through the public-private collaboration. Our Human Resource Development YWWB expects its employees to develop their own skills by working in a challenging environment in developing countries. Municipal Policy The international activities of the Yokohama City Waterworks Bureau (YWWB) are conducted in accordance with a policy of Yokohama City, which is to contribute to a solution of various global issues and 	
Activities	 challenges, including access to water supply in developing countries. Since the first expert dispatch to Afghanistan in 1973, YWWB has been working on various international activities including trainee acceptance and expert dispatches by its own efforts or through the collaboration with other agencies such as the Japan International Cooperation Agency (JICA). In addition, aiming to solve water-related challenges abroad, YWWB cooperates with Yokohama Water Business Association* and Yokohama Water Company founded by YWWB. *Network of local companies, established in 2011, to share information and carry out promotion for water-related oversea businesses in both water supply and sewage sectors through the public-private partnership. By 2017, it is registered by 165 local companies. 	
Primary projects	 1973- : Started staff dispatch as an expert and a member of research group. By 2017, YWWB has dispatched more than 400 staffs to over 30 countries. <u>Major destination of dispatches:</u> Vietnam (Thua Thien Hue Water Supply Joint Stock Company etc.), Indonesia (Tirtanadi Medan Regional Water Supply Company etc.), Thailand (Thai Metropolitan Waterworks Authority, Thai Provincial Waterworks Authority) etc. 1987- : Started own trainee acceptance program (Thai Metropolitan Waterworks Authority, Thai Provincial Waterworks Authority, Department of Public Works, Indonesia, Tirtanadi Medan Regional Water Supply Company, Shanghai Water Authority, etc.) By 2017, YWWB has accepted more than 3,700 trainees from over 130 countries and regions <the cooperation="" countries="" current="" of="" target=""> Vietnam</the> 2003 – 2006 JICA Partnership Program:" Improvement of Water Utility Management" in Hue City and Ho Chi Minh City 	

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	2007 – 2009	JICA Technical Cooperation: "Human Resources for Water sector in the middle region of Vietnam	•
	2009-	Activities based on "Memorandum of Understan between YWWB and Vietnamese water company	-
	2010 – 2013	JICA Technical Cooperation: "Capacity Developm Water Supply Utilities in the Central Region"	ent for Urban
	2013 – 2016	JICA Partnership Program: "Vietnam-Yokohama S Supply Management Project"	Safety Water
	2017 –	Bilateral activities based on "Memorandum of Ur Between Yokohama Waterworks Bureau and Thu Water Supply Joint Stock Company"	-
	Laos		
	2012 – 2017	JICA Technical Cooperation: "Capacity Developm for Improvement of Management Ability of Wate Authorities"	-
	African regio	n	
	_		
		Accept the trainees of JICA Knowledge Co-creation Program "African Region Urban Waterworks Engineering" (Conducted in collaboration with Yokohama Water Company)	
		Staff dispatches by JICA volunteer program (17 YWWB staffs were dispatched by 2017.)	
		Destination of dispatches:	
		2013 : Zanzibar Water Corporation (Tanzania),	
		2014 – : Blantyre Water Board (Malawi).	
Primary Recipien	Primary Recipient Utilities		
Name of utility	Thua Thien H	ue Water Supply Joint Stock Company	Case No. 2

Name of utility	Saitama City Waterworks Bureau (SCWB)		
Purpose	By engaging in a wide range of water supply expansion projects in other countries, the Saitama City Waterworks Bureau (SCWB) expects its employees to have broader perspectives, develop awareness of continuous service improvement, and enhance their communication skills in challenging environments.		
Activities	 SCWB has provided technical assistance to Laos for more than 20 years. The first technical assistance was provided in 1992 when the utility participated in a study organized by the Japan International Corporation of Welfare Service (JICWELS), to make concrete plans for providing such assistance. SCWB's involvement in Laos has been primarily made through the technical cooperation projects of the Japan International Cooperation Agency (JICA). But the utility has also strengthened its relation with Laos in their own way, by hosting international seminars in Vientiane Capital and Saitama City, as well as by developing staff exchange programs with the utility of Vientiane Capital. Owing to its strong ties with Laos, SCWB has also played an important role in connecting various Japanese organizations to relevant authorities in Laos for related cooperation programs as well as in supporting their activities. 		
Primary projects	Laos1992JICWELS investigation on the water supply service in Laos1994Dispatched SCWB engineers for JICA project to support development of water supply improvement plans2002-2005JICA Technical cooperation project - Capacity Development of Water Supply System2006-2008JICA Partnership Program for Improvement of Distribution Pipeline Maintenance and Management2010-2011Friendship Program between SCWB and the Vientiane Capital Water Supply State Enterprise (VWSSE)2011Strengthening of Zao Water Supply Sector Seminar in Vientiane Capital2012Saitama City Waterworks International Expansion Seminar in Saitama City2012-2017JICA Capacity Development Project for Improvement of Management Ability of Water Supply Authorities (MaWaSU Project)		
Primary Recipier	it Utilities		
Name of utility	Vientiane Capital Water Supply State Enterprise Case No. 3		

Name of utility	Chiba Prefectural Waterworks Bureau (CPWB)		
Purpose	At the request of the Japan International Cooperation Agency (JICA), the Chiba Prefectural Waterworks Bureau (CPWB) has sent its employees abroad for technical cooperation, utilizing its expertise and experiences to help water supply service in another country. The utility has also hosted training programs in Japan for visiting foreign water professionals.		
Activities	Engineers of CPWB have worked in East Timor since 2012 to help improve the country's water supply. Owing to this cooperation, residents in portions of the capital Dili now have 24-hour access to water supply.		
Primary projects	Timor Lest2012 –Send employees to Timor Lest		
Primary Recipie	Primary Recipient Utilities		
Name of utility	National Directorate for Water Services, General Directorate for Water and Sanitation, Ministry of Development and Institutional Reform in Timor Leste	Case No.5	

1.2 EXAMPLES OF INTERNATIONAL COOPERATION FOR FIVE WATER SUPPLY UTILITIES ABROAD

Case	Supporting utility in	Recipient utility in	
No.	Japan	other countries	
1	Water and Sewer Bureau of the City of	Haiphong Water Joint Stock Company in	
	Kitakyushu	Vietnam	
2	Yokohama City Waterworks Bureau	Thua Thien Hue Water Supply Joint Stock Company in Vietnam	
3	Saitama City Waterworks Bureau	Three major state enterprises of water	
		supply in Laos	
4	Water and Sewer Bureau of the City of	Eight provincial cities in Cambodia	
	Kitakyushu		
		National Directorate for Water Services,	
5	Chiba Prefectural Waterworks Bureau	General Directorate for Water and	
		Sanitation, Ministry of Development	
		and Institutional Reform in Timor Leste	

Table 1. List of international cooperation

Figure 1. Locations of recipient countries and their basics

