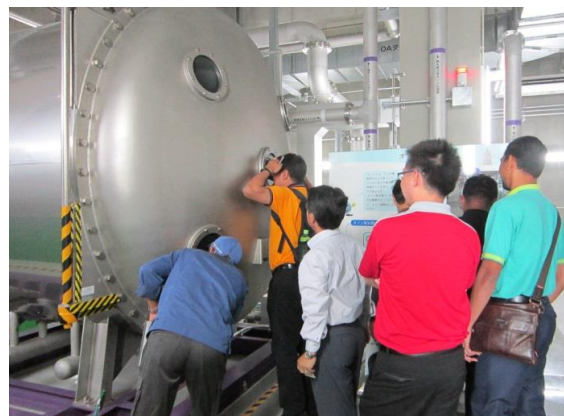


Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Partnership Program "NRW (Non-Revenue Water) Reduction Technology Training and Capacity Building Project in Malaysia"
Implementation Period	2014-2016
Main Organizer	JICA, Tokyo Waterworks, TSS Tokyo Water Co.,Ltd
Outline and Objectives	<p>A training project conducted in Malaysia, which faces a challenge of reducing the high level of NRW (Non-Revenue Water), to establish a system to train experts in NRW reduction, who will then pass on the practical know-how to the trainees selected from water supply utilities across Malaysia. In September 2014, a training field was constructed in Penang State. The project provides training in Malaysia and Japan, and Tokyo Waterworks regularly accepted visiting trainees.</p> <p>FY2016 : Training in Japan (From 25 May through 1 June)</p>
Target (Cooperator) Countries	Malaysia Ministry of Energy, Green Technology and Water PBAPP

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Technical Cooperation Projects "The Project for Improvement of Water Supply Management of YCDC"
Implementation Period	2015-2020
Main Organizer	JICA, Tokyo Waterworks, Fukuoka City Waterworks Bureau, TSS Tokyo Water Co.,Ltd, Public Utility Services Center Co.,Ltd
Outline and Objectives	<p>In Yangon, while construction of waterworks facilities utilizing yen loans is underway, JICA is also conducting a technical cooperation project associated with a yen loan project, to strength the organizational capacity of Yangon City Development Committee in parallel with the facility construction for securing sustainable water supply service. Tokyo Waterworks and Fukuoka City's Waterworks Bureau conduct seminars and training in Yangon and Japan.</p> <p>FY2016 : Dispatch of Lecture (From 29 January through 2 february)</p>
Target (Cooperator) Countries	Myanmar Yangon City Development Committee

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Partnership Program "NRW (Non-Revenue Water) Reduction Technology Training and Capacity Building Project in Hanoi"
Implementation Period	February 2016 - January 2019
Main Organizer	JICA, Tokyo Waterworks, TSS Tokyo Water Co.,Ltd
Outline and Objectives	Due to the lack of human resources and technologies for reducing non-revenue water in Hanoi, Vietnam, we implement technical cooperation by offering technical guidance on site and in Japan and providing Japanese-made materials and equipment to improve the capacity of personnel working in the Hanoi Water Limited Company to reduce non-revenue water.
Target (Cooperator) Countries	Hanoi Water Limited Company (HAWACOM)

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	Non-revenue water reduction project in Yangon
Implementation Period	2016-2022 (scheduled)
Main Organizer	Tokyo Waterworks, TSS Tokyo Water Co.,Ltd, and etc.
Outline and Objectives	<p>Based on the results of the non-revenue water reduction pilot project implemented in Yangon in FY 2014, we expanded the area in some parts of Yangon and implemented infrastructure development project by utilizing ODA (project cost: 1.8 billion yen). Furthermore, we plan to carry out maintenance and management projects funded separately by Yangon City from the district where infrastructure development is completed.</p> <p>FY2016: Conclusion of an agreement (7 October)</p>
Target (Cooperator) Countries	Myanmar Yangon City Development Committee

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	Asian Waterworks Utilities Network of Human Resources Development (A1-HRD)
Implementation Period	2-4 November 2016
Main Organizer	Bureau of Waterworks, Tokyo Metropolitan Government :The members host a meeting by turns.
Outline and Objectives	<p>A1-HRD is an initiative among waterworks utilities of Asian cities to contribute to the improvement of waterworks throughout Asia by exchanging information and know-how about human resources development and training.</p> <p>Main Activities:          -Annual conference on HRD which includes presentation and Q&amp;A session, sharing of ideas, open discussion and technical site visits.          -Sharing ideas on HRD through Newsletters and a website.</p> <p>The 9th conference was held in Seoul in 2016.</p>
Target (Cooperator) Countries	<p>Korea : Korea Water Resources Corporation (K-water)          The Office of Waterworks, Seoul Metropolitan Government</p> <p>Taiwan : Taiwan Water Corporation (TWC)</p> <p>Thailand : Metropolitan Waterworks Authority, Thailand (MWA)</p> <p>Japan : Bureau of Waterworks, Tokyo Metropolitan Government</p>

Photos



Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	JICA Partnership Program “Vietnam – Yokohama Safety Water Supply Management Project”
Implementation Period	Whole project term: January 2014 to November 2016
Main Organizer	Yokohama Waterworks Bureau (under contract to JICA)
Outline and Objectives	<p>YWWB and private companies of Yokohama Water Business Association (YWBA) introduce their superior water-related technologies to water utilities in the central and southern regions of Vietnam to contribute to solutions for issues of waterworks and safe water supply. The counterpart is Hue Water Company (HueWACO), which has sustained cooperative relationship with YWWB for more than 10years.</p> <p>1. Type of program:  (1) Dispatch of staff to Hue, Vietnam for research, discussion, technology transferring and holding seminars  •The 9th delegation (April 16-23, 2016) YWWB: 1 staff, YWBA 1company  •The 10th delegation (April 10-16, 2016) YWWB: 1 staff, YWBA 1company  •The 11th delegation (June 5-16, 2016) YWWB: 14 staffs, YWBA 2companies  •The 12th delegation (July 31-August 14, 2016) YWWB: 1 staff, YWBA 1company  •The 13th delegation (August 24-September 1, 2016) YWWB: 7 staffs, YWBA 2companies  •The 14th delegation (November 7-12, 2016) YWWB: 2 staffs  *The 1st delegation was dispatched in JFY2013  (2) Invitation (participating trainings and presentation in a seminar) in Japan  •November 8-12, 2016: 4 executive staffs including the general director were invited from HueWACO to Japan. They participated In-country trainings and presented the accomplishment of this project at a seminar.</p> <p>2. Fields:  •Improvement of water distribution and water service pipe  •Countermeasure against NRW  •Improvement of water purification plant  •Data Management  •Public-Private-Partnership (PPP)</p>
Target (Cooperator) Countries	Thua Thien – Hue Construction and Water Supply Company (HueWACO), etc., Viet Nam



Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	JICA Training and Dialogue program "African Region Urban Waterworks Engineering"
Implementation Period	July 7 to August 3, 2016
Main Organizer	JICA, Yokohama Water Co.,Ltd., Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>The 4th Tokyo International Conference on African Development(TICAD IV), held in Yokohama in May 2008, marked the start of the JICA-YWWB 3-year training and dialogue program for waterworks professionals from African countries. Under the Agreement of Comprehensive Partnership between JICA &amp; the City of Yokohama signed in Oct. 2011, YWC and YWWB renewed another 3-year contract with JICA for the program to contribute to improve waterworks in Africa. By the end of 2015, YWWB implemented 9 courses (in 2013, each 1 course for French speaking countries and English speaking countries) and accepted 100 participants from 28 countries in Africa.</p> <p>This program is aimed to share and disseminate the necessity of solid management of waterworks and actual improvement measures from the comprehensive viewpoint among the participating organizations.</p> <p>1. Type of Program: Training course (lectures, experience learnings, observations, and discussions etc.)</p> <p>2. Contents:</p> <ul style="list-style-type: none"> <li>•Exchange Program with Japanese pupils (on "Water Class" at a primary school)</li> <li>•Water Resource Management</li> <li>•Observation of the Facilities in Water Resource</li> <li>•Water Safety Plan</li> <li>•History of the Expansion of Waterworks in Yokohama</li> <li>•Water Quality Management</li> <li>•Reduction of NRW &amp; Leakage Prevention Work</li> <li>•Operation and Maintenance of Water Purification Plant</li> <li>•Water Distribution Management</li> <li>•Water Meter Maintenance</li> <li>•Water Tariff Collection and Customer Service                                etc.</li> </ul>
Target (Cooperator) Countries	Ethiopia (2), Kenya(1), Malawi (1), Nigeria(2), Sudan (1), Tanzania (1)



Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	Short-term dispatch of YWWB staff to Malawi (JICA Volunteer Program)
Implementation Period	September 30, 2015 to October 29, 2015
Main Organizer	JICA, Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>Based on the agreement of Comprehensive Partnerships signed between JICA and City of Yokohama in October 2011, YWWB dispatched staff to African countries under "JICA short-term volunteers dispatching program" to support water utilities of Afirca in solving issues on waterworks.</p> <p>The first dispatch were in 2013 to ZAWA (Zanzibar Water Authority) in Tanzania, and since 2014 we have been dispatching our staffs to BWB (Blantyre Water Board ) in Malawi. 3 of our staffs were dispatced in 2015.</p> <p>1. Type of program: Dispatch of staff as JICA Volunteers</p> <p>2. Fields:</p> <ul style="list-style-type: none"> <li>•Countermeasure against NRW</li> <li>•Replacement of aged pipes</li> <li>•Interactive communication between utilities and users, including public relation activities etc.</li> </ul>
Target (Cooperator) Countries	Blantyre Water Board (BWB), Malawi





Name of Organization	<b>Kawasaki City Water and Wastewater Works Bureau</b>
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Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	2 August - 30 October, 2016 (Dispatch engineers) 20 November, 2016 - 17 February, 2017 (Dispatch engineers)
Main Organizer	JICA
Outline and Objectives	This project is to contribute to improve the management of nationwide water supply authorities with mid-term and long-term view through strengthening planning, implementation and monitoring ability of Government and Water Supply State Enterprises. The term of the project is from 2012 to 2017. We dispatch short-term engineers with Saitama City, Saitama Prefecture, and Yokohama City. Kawasaki City's role in the project is mainly the planning of the water treatment plant facilities.
Target (Cooperator) Countries	Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (PNP-LP) and Khammouane Provincial Water Supply State Enterprise (PNP-KM)

Photos



Name of Organization	<b>Chiba Prefectural Waterworks Bureau</b>
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Name of Activity	Dispatch experts to The Democratic Republic of Timor-Leste
Implementation Period	30 April 2012-29 April 2015 (A long term technical expert dispatching) 19 May-15 June 2014(Short term technical staffs dispatching) 26 October - 4 November 2015(Short term technical staffs dispatching) 27 July 2015- (A long term technical expert dispatching) 8 January - 7 February 2016(Short term technical staffs dispatching) 13 January - 5 March 2017(Short term technical staffs dispatching)
Main Organizer	JICA
Outline and Objectives	<ul style="list-style-type: none"> <li>•Government of the Democratic Republic Timor Leste set a goal for the water supply sector that realizes to provide 100 % of the population in the country with safe and abundant water in 2030.</li> <li>•However, the water coverage rate remained at 70% (95% in city, 61% in village) in 2012 despite various supports from the Government of Japan.</li> <li>•For this, the water supply sector in Timor Leste is still required continual supports to make the improvement of water supply system.</li> <li>•In response to JICA, Chiba Prefectural Waterworks Bureau (CPWB) has been dispatching technical staffs to improve of water supply system in Timor Leste. (Dispatch of long term experts)</li> <li>•CPWB dispatched a technical staff in response to request from JICA for the Democratic Republic of Timor-Leste from April, 2012 through April 2015.</li> <li>•A technical staff wrestled for improvement while teaching the field staff with the water service skill and realized for 24hours/7days water supply about some areas.</li> <li>•Since July 2015, CPWB has been dispatching a technical staff and continued supporting to able to supply for the expansion of the water-supply district for 24 hours.</li> <li>•Details are as follows.</li> <li>i) Technical support of improvement of operating and the water quality chemical control of the water purification plant.</li> <li>ii)Technical support of improvement of water distribution system for 24hours/7days water supply district expansion.</li> <li>iii)Technical support of organization for administering water service business by independent profit.</li> <li>(Dispatch of short term staffs)</li> <li>•CPWB has dispatched total number of 14 technical staffs in short term since 2014.</li> <li>•Details are as follows,</li> <li>i)Technical support of water utility account based on Local public enterprise law, organizational formation.</li> <li>ii)Technical support of efficient water supply system and Understanding of Non-revenue water.</li> <li>iii)Technical support of Water quality check and chemical doses.</li> <li>iv)Technical support of O&amp;M of water supply facilities.</li> <li>v)Technical support of how to operate the water leak detector and the metal detector.</li> </ul> <p>On March 2018, ambassador of Timor-Leste to Japan and ambassdor of Japan to Timor-Leste visited water treatment plants in Timor-leste which are now able to treat water properly by supporting from CPWB experts and staffs.</p>

Name of Organization

**Chiba Prefectural Waterworks Bureau**

Target (Cooperator)  
Countries

The Democratic Republic of Timor-Leste

Photos



Ambassador of Timor-Leste to Japan visited water treatment plants.



Short term technical staffs from CPWB and trainees of Timor-Leste

Name of Organization	<b>Saitama City Waterworks Bureau</b>
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Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	2 August - 30 October 2016 (Dispatch 2 experts) 1 September - 14 October 2016 (Accept 15 trainees) 20 November 2016 - 17 February 2017 (Dispatch 2 experts)
Main Organizer	JICA
Outline and Objectives	<p>This project is to contribute to improve the management of nationwide water supply authorities with mid-term and long-term view through strengthening planning, implementation and monitoring ability of Government and Water Supply State Enterprises. The term of the project is from 2012 to 2017.</p> <p>We dispatched short-term experts with Kawasaki City, Yokohama City and Saitama Prefecture. Saitama City's role in the project was mainly about pipeline network planning and business management.</p> <p>We accepted trainees with 3 water utilities (mentioned above) and other related organizations for 45 days(actual working was 29 days) and Saitama City's role was arrangement and implementation of the part of training in total 8 days in 2016.</p>
Target (Cooperator) Countries	Laos / Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (PNP-LPB) and Khammouane Provincial Water Supply State Enterprise (PNP-KM)

Photos



Name of Organization	<b>Saitama City Waterworks Bureau</b>
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Name of Activity	Conclusion of the MOU between Saitama City Waterworks Bureau and Water Supply State Enterprises of Lao PDR regarding cooperation aimed at strengthening the Lao Water Supply Sector
Implementation Period	26 December 2016
Main Organizer	Saitama City Waterworks Bureau
Outline and Objectives	<p>Saitama City Waterworks Bureau(SCWB) has been continuously providing technical cooperation for Lao water supply sector since 1992.</p> <p>We held the seminar aimed at strengthening Lao water sector in December 2011. And the MOU was concluded between SCWB and Vientiane Capital Water Supply State Enterprise(Vientiane Capital WSSE) for improvement of Lao water sector. Based on the MOU, we have dispatched experts, accepted trainees and held international seminars for 5 years.</p> <p>In December 2016, we concluded new MOU because former MOU was expired. In the new MOU, Luang Prabang WSSE as a leader of northern part and Khammouane WSSE as a leader of southern part were added as members of the cooperation for improvement of whole water supply sector of Lao PDR.</p> <p>We shall actively cooperate with Lao water supply sector for further improvement from 2016 to 2021 based on the new MOU.</p>
Target (Cooperator) Countries	Laos / Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (PNP-LPB) and Khammouane Provincial Water Supply State Enterprise (PNP-KM)

Photos




Name of Organization	<b>Public Enterprise Bureau, Saitama Prefectural Government</b>
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Name of Activity	The Project for Improving Water Treatment Plant Operations and Maintenance Management of the Water Supply State Enterprises
Implementation Period	January, 2016 - January, 2019
Main Organizer	Saitama Prefectural Government (JICA Partnership Program)
Outline and Objectives	<p>The Public Enterprise Bureau, Saitama Prefectural Government, as the JICA Partnership Program, has carried out the technical assistance to improve operation, maintenance and water quality management abilities in the water purification plants under the jurisdiction of Water Supply State Enterprises in Laos , through the dispatch of engineers and the acceptance of trainees.</p> <p>○Purpose of Assistance We will aim for the sound operation of the water purification plant and supply of good quality water by improvement of technical abilities of Water Supply State Enterprises' staffs.</p> <p>○Target of Assistance Water Purification Plants in Vientiane Capital, Luang Prabang and Khammouane</p> <p>○Activities Guidance for maintenance of chemical injection pump, calculation and control of the chemical injection amount, cleaning of filtration reservoir etc.</p> <p>&lt;Results in FY 2016&gt;</p> <p>1 Dispatch of Engineers First dispatch (July 10 - August 6, Khammouane): 5 engineers Second dispatch (December 11 - December 24, Luang Prabang): 3 engineers Third dispatch (January 15- January 28, Vientiane Capital): 3 engineers Project policy discussion (January 15 - January 18, Vientiane Capital): 2 members</p> <p>2 Acceptance of Trainees Lectures and field experiences (November 14 - November 25):3 trainees</p>
Target (Cooperator) Countries	Department of Water Supply, Ministry of Public Works and Transport, Lao PDR

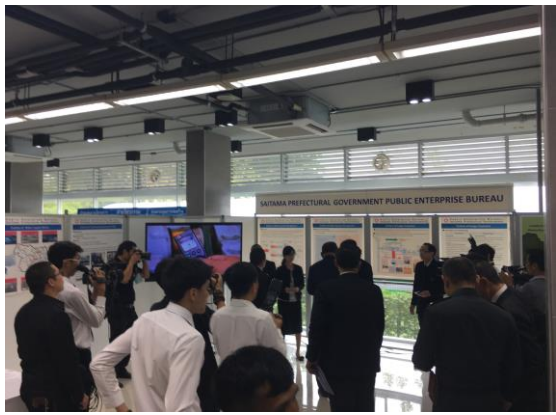
Photos



Name of Organization	<b>Public Enterprise Bureau, Saitama Prefectural Government</b>
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Name of Activity	Provincial Waterworks Authority "Academic Day"
Implementation Period	February 28, 2017 (Dispatch engineers to Bangkok)
Main Organizer	Provincial Waterworks Authority (PWA), Thailand
Outline and Objectives	<p>Academic Day is an annual event for staff organized by PWA . In this event, seminar for sharing knowledge and exhibition of technologies developed by staff and related organizations.</p> <p>In 2017, PWA asked us to give a lecture on the wastewater treatment system in Academic Day, so we dispatched 2 staffs, and they held a lecture and a poster session about it.</p> <p>&lt;Overview&gt;</p> <ul style="list-style-type: none"> <li>○ Content of the Lecture "About the wastewater treatment system" <ul style="list-style-type: none"> <li>· History of introduction in Saitama Prefecture</li> <li>· Current status of wastewater treatment in Thailand</li> <li>· About ideal wastewater treatment</li> </ul> </li> <li>○ Exhibition at the Booth <ul style="list-style-type: none"> <li>· Poster session (overview of prefectural water service, technical cooperation to PWA, water quality management, wastewater treatment)</li> <li>· Video screenings (Introduction to Saitama Prefecture, The Aquatic Adventures of WoTaro, A practical example of the operation and maintenance of a water treatment plant in Japan, Wastewater treatment in Okubo water purification plant )</li> <li>· Distribution of Brochures 300 parts</li> </ul> </li> </ul>
Target (Cooperator) Countries	Provincial Waterworks Authority (PWA), Thailand

Photos



Name of Organization	<b>Public Enterprise Bureau, Saitama Prefectural Government</b>
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Name of Activity	International Expansion of Japanese Water Supply Industry
Implementation Period	December 13 - December 17, 2016
Main Organizer	Ministry of Health, Labor and Welfare
Outline and Objectives	<p>According to the request of the Ministry of Health, Labor and Welfare, our staff accompanied Japanese domestic enterprises and exchanged opinions with Provincial Waterworks Authority (PWA).</p> <p>○Destination PWA Headquarters, Water Purification Plants in Saraburi province and Ayutthaya province</p> <p>○Activities Visit to water purification plants, Participation in an exchange of opinions between PWA and Japanese domestic enterprises</p>
Target (Cooperator) Countries	Provincial Waterworks Authority (PWA), Thailand

Photos





Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Partnership Program (Capacity Development Project for Construction Management of Water Supply Pipe Laying)
Implementation Period	March 2014 ~ March 2017
Main Organizer	JICA
Outline and Objectives	Improving the capacity of NWSDB staffs to supervise and manage construction of waterworks facilities particularly in the area of the pipe connection skill to avoid water leakage from the connection points. Technical training in Japan for NWSDB staffs and holding a seminar in Sri Lanka by Nagoya City staffs
Target (Cooperator) Countries	National Water Supply and Drainage Board of the Government of Democratic Social Republic of Sri Lanka

写真



Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Partnership Program Improvement of Sewage Treatment in Mexico City Project
Implementation Period	January 2015 ~ March 2017
Main Organizer	JICA
Outline and Objectives	Improvement of sewage-treated water in Mexico City Project. Training in Japan for Mexico City staffs and instructing in Mexico City by Nagoya City staffs.
Target (Cooperator) Countries	Mexico City

写真



Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Training and Dialogue Programs Non-Revenue Water Management(Leakage Control) A
Implementation Period	21th Sep~23th Sep and 25th Oct 2016 (Whole Period : 14th Sep~27th Oct 44 days)
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Dvelopping countries engineers.
Target (Cooperator) Countries	BANGLADESH,JORDAN,MALAWI,PALESTINIAN AUTHORITY,SOUTH SUDAN,TIMOR-LESTE,ZAMBIA

写真



Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Training and Dialogue Programs Non-Revenue Water Management(Leakage Control) B
Implementation Period	3th Nov ~ 16th Dec 2016 44days
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Dveloping countries engineers.
Target (Cooperator) Countries	ETHIOPIA,HONDURAS,IRAQ,NEPAL,NIGERIA,,RWANDA,SAMOA,SOUTH AFRICA,SRI LANKA,SUDAN

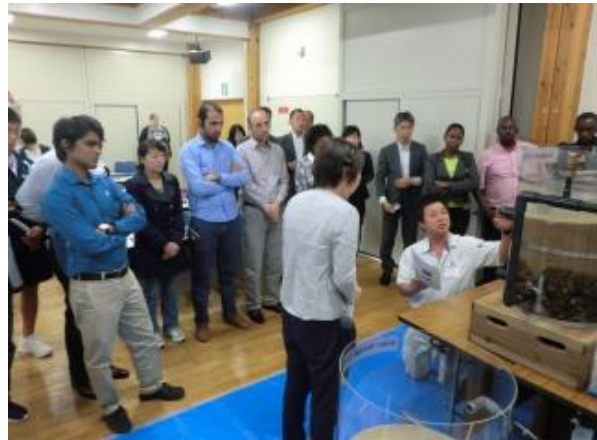
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Name of Organization	<b>Hamamatsu City Water Services Department</b>
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Project	JICA Training and Dialogue Programs "Non-Revenue Water Management (Leakage Control)"
Implementation	11-14 October 2016
Main Organizer	JICA
Outline and Objectives	<p>JICA carries out this program by inviting administrative officers, engineers, and researchers from developing countries and providing training on the skills and knowledge necessary for each country.</p> <p>The program is to be implemented for 3 years between 2014 and 2016 in Hamamatsu.</p> <p>We accepted 8 trainees from 7 countries in 2016 to learn about non-revenue water management.</p> <p>The main training programs carried out in Hamamatsu are as follows;</p> <ul style="list-style-type: none"> <li>• Workflow for Leak Detection</li> <li>• Field Training for Leak Detection</li> <li>• Study Tour for Leak Repair Construction</li> <li>• Safety Measures for Water Supply Installation</li> <li>• Explanation of the Simple Filter Bed (Demonstration with a small model)</li> </ul>
Target (Partner) Countries	Zambia (2 persons), Bangladesh, Jordan, Malawi, Palestinian Authority, South Sudan, Timor-Leste (total 8 participants)

Photos



Name of Organization	<b>Osaka Municipal Waterworks Bureau (OMWB)</b>
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Name of Activity	Technical Exchange 2016 between SAWACO, BWACO and OMWB
Implementation Period	14st - 22th December 2016
Main Organizer	Osaka Municipal Waterworks Bureau (OMWB)
Outline and Objectives	<p>Saigon Water Corporation (SAWACO) and OMWB have mutually agreed to exchange and share technical and managerial knowledge, experiences, information for the purpose of making contribution toward the development of both waterworks and promoting their friendship, signed "Technical Partnership Agreement" on December 2009, revised it on November 2015.</p> <p>Based on this agreement, OMWB has accepted SAWACO's staffs annually since 2010.</p> <p>In this year(2016), OMWB accepted 3 participants from SAWACO and 2 participants from BWACO* (Ba Ria - Vung Tau Water Supply JSC) between 14st to 22th December 2016, and conducted lectures, site visits and discussion.</p> <p>In the technical exchange, OMWB introduced its master plan, O&amp;M methods of the facilities and its Customer service etc. Issues on the SAWACO and BWACO were discussed as well, and OMWB advised solutions to solve them.</p> <p>*BWACO joined the technical exchange on referral from SAWACO.</p>
Target (Cooperator) Countries	"Vietnam (Saigon Water Corporation [SAWACO]) Vietnam (Ba Ria - Vung Tau Water Supply JSC [BWACO])"

Photos



Name of Organization	<b>Osaka Water Supply Authority (OWSA)</b>
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Name of Activity	MWA-OWSA Conference regarding Technical Exchange Program at Niwakubo Water Treatment Plant
Implementation Period	6th February, 2017
Main Organizer	Osaka Water Supply Authority
Outline and Objectives	<p>OWSA(Osaka Water Supply Authority) has cooperated with MWA(Metropolitan Waterworks Authority) through the technical training program at the NWTTI(National Waterworks Technology Training Center) in Thailand which JICA established in 1985.</p> <p>When a massive flooding hit Thailand in 2011, we dispatched our staff as the Japan Disaster Relief Team to support Thailand, and we have deepened our relationship.</p> <p>We signed the MOU(memorandum of understanding) for further development of each waterworks on 27th November, 2012.</p> <p>MWA executives, this time, visited to Niwakubo WTP to observe it and exchange opinions each other, as a kickoff for the technical training program which we start in 2017fy.</p>
Target (Cooperator) Countries	Metropolitan Waterworks Authority (MWA) ; KINGDOM of THAILAND



Name of Organization	<b>Kyoto City Water and Sewerage Works Bureau</b>
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Name of Activity	JICA knowledge co-creation Program
Implementation Period	11 July - 10 Aug, 2016
Main Organizer	Kyoto City, Osaka City
Outline and Objectives	<p>In response to a request from JICA, Kyoto City Waterworks Bureau had carried out training course of "Maintenance of Urban Waterworks" jointly with the Osaka City for 2 months and accepted 9 participants from overseas countries.</p> <p>We mainly organized lectures and technical visits as follows;</p> <ol style="list-style-type: none"> <li>1. Technical visit to Keage Purification Plant and Water Quality Management Center <ul style="list-style-type: none"> <li>- Lecture about "The summary of purification facilities"</li> <li>- Training of water examination</li> </ul> </li> <li>2. Lecture about "Training for maintenance checkup and calibration of continuous water quality monitoring equipment"</li> <li>3. Others <ul style="list-style-type: none"> <li>- Needs discussion, Instruction for making action plan, etc</li> </ul> </li> </ol>
Target (Cooperator) Countries	Pakistan, Nepal(2), Nigeria(2), South Sudan, Azerbaijan, Iran, Sudan (9 participants)

Photos





Name of Organization	<b>KOBE City Waterworks Bureau</b>
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Name of Activity	Mission of Advisory Committee in Rwanda
Implementation Period	3 ~11 December 2016 , 30~31 January 2017
Main Organizer	JICA
Outline and Objectives	<p>In December 2016, JICA and Kobe City Waterworks Bureau investigated the Rwanda Water Supply System and introduce the Kobe water supply system into Rwanda .</p> <p>In January 2017, two Rwanda engineers visited Kobe City to study Kobe water system . For example Water pressure management, SCADA system, tariff setting, mapping system and so on.</p>
Target (Cooperator) Countries	Rwanda



Name of Organization	<b>KOBE City Waterworks Bureau</b>
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Name of Activity	JICA knowledge co-creation Program "Operation and Maintenance of Urban Water Supply System (Water Quality and Purification) (B)"
Implementation Period	8 July - 5 August 2016
Main Organizer	JICA
Outline and Objectives	<p>This training is aiming to foster engineers who are in charge of water quality and purification. 14 participants from 8 countries visited in Kobe city in 2016. Participants made an Action Plan and work out the plan with Kobe city Waterworks bureau.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> <li>• Make and Report an Action Plan</li> <li>• Water Treatment Method</li> <li>• Maintenance of Machinery and Electrical Equipment</li> <li>• Water Quality Management</li> <li>• Operation and Maintenance of Water Purification Plant</li> <li>• Water Safety Plan</li> <li>• Study Tour of Facilities (Reservoir, Water Purification Plant, Pump Station and so on)</li> </ul>
Target (Cooperator) Countries	Sri Lanka(2),Myanmar(2),Laos(2),Rwanda(2),Ethiopia(2),Republic of Zambia(2),Malawi,Eritrea



Name of Organization	<b>KOBE City Waterworks Bureau</b>
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Name of Activity	Investigation of Sri Lanka Water Supply System
Implementation Period	14~25 October 2016、 15~21 January 2017
Main Organizer	JICA
Outline and Objectives	Kobe City Waterworks Bureau investigated Sri Lanka Water Supply System and introduced the role of waterworks , history of Japanese Waterworks , Kobe Water Supply System and Asset Management .
Target (Cooperator) Countries	Sri Lanka · NWSDB(National Water Supply and Drainage Board)



Name of Organization	<b>The City of Hiroshima Waterworks Bureau</b>
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Name of Activity	JICA Operation and Maintenance of Urban Water Supply Systems Course B
Implementation Period	July 1 to August 9, 2016
Main Organizer	JICA
Outline and Objectives	<p>The City of Hiroshima accepts technicians in the field of waterworks from developing countries so that they can acquire practical knowledge and skills about Hiroshima's water supply and distribution. The goal of this program is for the trainees to contribute to the development of waterworks services in their countries. The City has accepted 37 trainees since receiving JICA Chugoku's request in 2013.</p> <p>Main Programs of Training Course:</p> <ul style="list-style-type: none"> <li>•Hydrologic Accounting</li> <li>•Operation and Maintenance of Purification Plants</li> <li>•Water Quality Management</li> <li>•Leak Prevention Training</li> <li>•Repair of Burst Water Pipes</li> <li>•Visit to Nukui Dam</li> <li>•Educational activity of the water for children</li> </ul>
Target (Cooperator) Countries	Azerbaijan, Malawi , Mozambique,Nepal,Rwanda,Sri Lanka,Tajikistan,Tanzania [eight participants in total]

Photos



Name of Organization	<b>Shimonoseki City Waterworks &amp; Sewerage Bureau</b>
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Name of Activity	2016 Staff Exchange Program with Qingdao Water Group Co., Ltd.
Implementation Period	26 October - 12 October 2016
Main Organizer	Shimonoseki City Waterworks & Sewerage Bureau•Qingdao Water Group Co., Ltd.
Outline and Objectives	<p>The cities of Shimonoseki and Qingdao have promoted friendly exchanges in a variety of fields since becoming friendship cities in 1979.</p> <p>As part of these activities, Shimonoseki City Waterworks &amp; Sewerage Bureau and Qingdao Water Group CO., Ltd dispatch the staffs mutually from 2000.</p> <p>This staff exchange program is aiming to deepen friendly relations and improve water and sewerage technology in both cities.</p>
Target (Cooperator) Countries	China•Qingdao Water Group Co., Ltd.

Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA Partnership Program: Project to support reducing unaccounted water through effective control on Nadi/ Lautoka regional supply in Fiji
Implementation Period	March 2014 - July 2017
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>· To develop capacities of Water Authority of Fiji (WAF) engineers in charge of planning and maintenance on distribution pipes</li> <li>· To support NRW reduction activities in some pilot areas by WAF engineers who are carrying over skills and techniques from Fukuoka.</li> </ul> <p>■ <b>Activities</b></p> <ul style="list-style-type: none"> <li>- Dispatch <ul style="list-style-type: none"> <li>· 3 times a year for 3 years</li> </ul> </li> <li>(Examples) <ul style="list-style-type: none"> <li>· Lecture: leak prevention, planning of distribution pipe network</li> <li>· Site visits: waterworks facilities, repairing leakages</li> <li>· Discussion: NRW reduction measures (physical and non-physical losses)</li> <li>· Support: NRW reduction activities in some pilot areas by WAF</li> </ul> </li> <li>- Training in Japan <ul style="list-style-type: none"> <li>· Once a year for 3 years</li> </ul> </li> <li>(examples) <ul style="list-style-type: none"> <li>· Lecture: NRW reduction measures in Fukuoka</li> <li>· Site visits: leak detection, water distribution control center</li> <li>· Practical training: plumbing service pipes, repairing leakage</li> </ul> </li> </ul>
Target (Cooperator) Countries	Water Authority of Fiji

photos



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA Expert Yangon City Water Supply & Sanitation Advisor
Implementation Period	August 2015 - July 2017
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>· To improve capacity of Yangon City Development Committee (YCDC) for planning and implementation of water service improvement projects.</li> <li>· To accelerate efforts to fulfil the 'Water Vision' and 'Master Plan' for water supply services.</li> <li>· To enhance coordination in water supply and sanitation activities in Yangon City.</li> </ul> <p>■ <b>Activities</b></p> <ol style="list-style-type: none"> <li>1) Information-sharing with the persons in charge of water supply in Yangon</li> <li>2) To advise YCDC and its Water &amp; Sanitation Department on how to develop and improve water supply services based on the Master Plan</li> <li>3) To advise and assist officials of YCDC and its Water &amp; Sanitation Department to coordinate with other concerned Ministries/Departments, Donors, INGOs, and private companies</li> <li>4) To share the experience and knowledge of Yangon with other Municipalities and the Township Development Committee, providing necessary advice</li> <li>5) To consider future Japanese assistance programs</li> </ol>
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar

photos



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA Group and Region Focused Training: Non-Revenue Water Management (Leakage Control)
Implementation Period	November, 2016
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>• To improve engineering techniques in developing countries, such as Myanmar</li> <li>• To develop capacities of engineers in Fukuoka City through international cooperation activities and improve technical standards by accumulating activities</li> </ul> <p>■ <b>Activities</b> (examples)</p> <ul style="list-style-type: none"> <li>• Lecture: Utility management in Fukuoka, NRW reduction measures</li> <li>• Site visits: Dams, waterworks facilities, laying distribution pipes</li> <li>• Support: Action plans by trainees</li> </ul>
Target (Cooperator) Countries	Myanmar

Photos





Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	Council of Local Authorities for International Relations: Local government officials training program
Implementation Period	June - November 2016
Main Organizer	Council of Local Authorities for International Relations
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>· To improve management of water utilities by YCDC through skill development and training of engineers from Yangon.</li> <li>· To develop the skills of Fukuoka City engineers through international cooperation activities and to improve technical standards of Fukuoka City by coordinating on various projects and activities.</li> </ul> <p>■ <b>Activities</b> (examples)</p> <ul style="list-style-type: none"> <li>· Lecture: Utility management in Fukuoka, NRW reduction measures</li> <li>· Site visit: Dams, waterworks facilities, laying distribution pipes</li> <li>· Support: Action plan by a trainee on "Water quality management at the Nyaunghnapin water purification plant"</li> </ul>
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar

photos



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA Technical Assistance Project: Project for Improvement of Water Supply Management of YCDC
Implementation Period	2015 - 2020
Main Organizer	JICA
Outline and Objectives	<p>■ Outline</p> <p>In Yangon, while construction of waterworks facilities utilizing yen loans is underway, JICA is also conducting a technical cooperation project associated with yen loan ventures, to strengthen the organizational capacity of the YCDC in parallel with facility construction for securing sustainable water supply service. Tokyo Metropolitan Government's Bureau of Waterworks and the Fukuoka City Waterworks Bureau conduct regular seminars and training in both Yangon and Japan.</p> <p>■ Activities</p> <p>FY2016 : Dispatch Lecture (26 January - 2 February)</p>
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar

photos



Name of Organization	<b>Okinawa Prefecture Enterprise Bureau</b>
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Name of Activity	Water Conservation Management in Island Areas
Implementation Period	11th July to 26th August, 2016
Main Organizer	JICA
Outline and Objectives	<p>Acceptance of trainees from (foreign) water utilities, in cooperation between JICA Okinawa and Okinawa Water Supply Agency, aiming at international exchanges and international cooperation through technical transfer regarding effective water system in Pacific islands area.</p> <p>(This is the 7th year and 79 trainees have participated in this training so far. )</p>
Target (Cooperator) Countries	Fiji(2),Micronesia(3),Samoa(1)Solomon(1), Tonga(2),Vanuatu(1)

Name of Organization	<b>Okinawa Prefecture Enterprise Bureau</b>
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Name of Activity	Capacity Enhancement Project for Samoa Water Authority in Cooperation with Okinawa
Implementation Period	2014FY~2019FY
Main Organizer	JICA
Outline and Objectives	The project have been providing Samoa Water Authority (SWA) with guidance on proper management technologies regarding Non-Revenue Water, water quality and water purification plant in Apia, capital city of Samoa. For the purpose of contributing to stable water supply and security in Apia, experts are dispatched from water authorities under Okinawa Prefecture.
Target (Cooperator) Countries	Samoa Water Authority

Name of Organization	<b>Japan Water Works Association</b>
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Name of Activity	JICA Group Training Course "Comprehensive Engineering on Water Supply Systems (A)"
Implementation Period	3.June.2016 -12.August.2016
Main Organizer	JICA Tokyo
Outline and Objectives	<p>This training is aiming to foster development of engineers who will take on leading roles in managing waterworks facilities and target of the training is mid-level waterworks engineers from developing countries.</p> <p>The program features a number of lectures, observation tours and exercises regarding comprehensive water supply technologies for about 2 months. The training has a long history and so far a total of 588 trainees from about 90 countries and regions have participated.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> <li>• Water intake, reservoir, distribution facilities</li> <li>• Jar test (Optimization of coaguration)</li> <li>• Leak prevention</li> <li>• Exercise on basic planning of water supply systems</li> <li>• Observation of water pipe/valve factories</li> <li>• Anti-seismic construction and measures for disaster</li> <li>• Groundwater technology</li> <li>• Water treatment process</li> <li>• Water demand forecasting and hydraulics in water distribution networks etc.</li> </ul>
Target (Cooperator) Countries	CAMBODIA,INDONESIA,MYANMAR,IRAQ(2),ETHIOPIA(2),GUINEA(2),MALAWI(2),RWANDA,SUDAN,ZAMBIA(2) (TOTAL 15 participants)

Photos

