

17.Environmental Management

Air Pollution Source Management 大気汚染源管理		Group Trainers	1280286 Updated
Target Countries : <input type="text"/>		10 participants	
Sector :Environmental Management/Air Pollution/Acid Rain			
Sub-Sector :			
Language :English			
Appeal			
This training program intends to transfer methodologies and techniques for air pollution control. Participants are able to acquire practical knowledge and techniques, as the city government and private enterprises in Kitakyushu City have accumulated various technologies and experience in the field through their history of pollution control and international cooperation.			
Objective/Output		Target Organization / Group	
<p>[Objective] Be able to formulate and propose action plan for improvement of air pollution source management, utilizing contents of the training program.</p> <p>[Objective for Each Unit] (1)Be able to explain the administrative system for air pollution control in Japan. (2)Be able to explain the method of air pollution monitoring and pollutant analysis (3)Be able to explain the technologies for air pollution prevention (4)Be able to formulate an action plan for air pollution source management</p>		<p>[Target Organization] Governmental organizations in charge of air pollution control</p> <p>[Target Group] (1)Staffs in charge of air pollution control (2)Occupational experience of more than 3 years in the area (3)Be under 50 years old</p>	
Contents		Program Period	2012 / 10 / 14 ~ 2012 / 12 / 1
<p>[Preliminary Phase] Preparation of a report on overview and challenges on air pollution source management.</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)History of industrial pollution and present condition, Air pollution control law, Competence inspection in the factories, Automobile exhaust gas emission (2)Air pollution monitoring, Air pollutant analysis, Dust, Sulfur oxides and nitrogen oxides, Fluorine compounds, Automobile exhaust gas analysis (3)Cleaner production, Dust collector, Desulfurization and denitrification, Visit to factories (4)Action plan formulation and discussions</p> <p>[Finalization Phase] Formulation and submission of reports to present progress of Action Plan</p>		Implementing Partner	Under Planning
		JICA Center	JICA Kyushu
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Countermeasure against Automobile Pollution in Urban Area 都市における自動車公害対策		Group Solution	1280287 Updated
Target Countries : Countries that require automobile pollution prevention plans		10 participants	
Sector :Environmental Management/Air Pollution/Acid Rain			
Sub-Sector :			
Language :English			
Appeal			
This course offers methods to design automobile pollution prevention plans, focusing on automobile pollution countermeasures as mobile emission source among various causes of air pollution, taking into account not only technical aspects of automobile exhaust gas countermeasures but also social aspects such as urban transport planning and responses to Environmentally Sustainable Transport (EST).			
Objective/Output		Target Organization / Group	
【Objective】 Ability to prepare plans for automobile pollution countermeasures will be improved in participating organizations. 【Objective for each unit】 [Preliminary Phase] 1. Identify problems about automobile pollution in their organizations (in charge of automobile pollution control and urban/ traffic planning). [Phase in Japan] 2. Understand about outlines of automobile pollution countermeasures through case studies of Osaka (countermeasure methodology, relationship with citizens). 3. (Key issue of 2nd year) Understand automobile emissions in participating country and methods of emission management as the basis of preparing automobile pollution countermeasures 4. (Key issue of 3rd year) Understand the planning principle for introduction and dissemination of sustainable transport system and acquire methods of public education. 5. Prepare a draft action plan for countermeasures against automobile pollution. [Finalization Phase] 6. Share and examine the draft action plan in the participating organizations.		Organization: National and local government organization in charge of drafting policies for automobile pollution countermeasures and urban traffic countermeasures Experience: Administrative or engineering official who belongs to the above organization. 3 years of experience working with environmental controls. Age: be under 50 years old Language: have a competent command of spoken and written English	
Contents		Program Period	2012 / 9/24 ~ 2012 / 11 / 15
[Preliminary Phase] 1. Preparation of Job Report [Phase in Japan] 2. Laws and ordinances, history and case studies of automobile pollution countermeasures in Osaka City, experiences of automobile pollution prevention plans of Osaka City 3. Observation: air pollution constant monitoring facility, real vehicle experiment of automobile exhaust gas Practice: measurement of automobile exhaust gas, calculation of emissions 4. Urban traffic planning, investigation and projection of traffic volume, EST, traffic jam countermeasures, mobility management 5. Presentation of Job Report, workshop and presentation of Action Plan [Finalization Phase] 6. Sharing and improvement of Action Plan in the participating organization, submission of Follow-up Report describing progress of Action Plan.		Implementing Partner	Under Planning
		JICA Center	JICA Kansai ()
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Air Quality Management Policy 大気保全政策		Group Solution	1280864 Continuing
Target Countries :		10 participants	
Sector :Environmental Management/Air Pollution/Acid Rain			
Sub-Sector :			
Language :English			
Appeal			
The course aims to contribute to the improvement of the air pollution control policy in the participating countries from the technical and socioeconomic viewpoints. The course is composed of lectures/discussions and observation tours. By placing emphasis on the air pollution control policy of Japan, it is intended to share the Japanese specific experience with the participants and to enhance heart -felt discussions among them.			
Objective/Output		Target Organization / Group	
Participants are expected to contribute to the improvement of air pollution policy in their own countries by making best use of the knowledge and technology on air quality management policy acquired in Japan.		<ul style="list-style-type: none"> • University graduates or holders of equivalent technical knowledge/ qualification • More than three years professional experience • Technical officials in the central or local government responsible for air quality control policy 	
<ol style="list-style-type: none"> 1 To acquire the knowledge of whole system of air quality management, 2 To examine technical aspects of air pollution countermeasures (stationary and mobile sources),and air quality monitoring method, 3 To deepen understanding by exchanging opinions of current status of air quality and counter-measures in each country, and 4 To formulate an Action Plan for solutions of air pollution control problems. 			
Contents		Program Period	2013/ 1/ 7 ~ 2013/ 2/23
Lecture: History of Japan's Countermeasures against Air Pollution, Air Pollution Control Administration, Outline of Air Pollution Issues, Environmental Quality Standards and Health Effect, Countermeasures against Hazardous Air Pollutants, Air Pollution Control Technology and Energy Issues, Air Pollution Control Measures by Private Enterprises (Power Company and Steel Company), Techniques for Measurement of Air Pollution and Sampling Observe: Air Pollution Countermeasures of Small and Medium sized Enterprises, Municipal Solid Waste Incineration Plant, Ambient Air Telemetry System, Roadside Ambient Monitoring Station Practice: Techniques for Measurement of Air Pollution		Implementing Partner	Ministry of Environment Japan Environmental Sanitation Center(JESC)
		JICA Center	JICA Tokyo(Economy&Env.)
		Cooperation Period	2010 ~ 2012
		Remarks and Website	JESC http://www.jesc.or.jp/en/index.html

Domestic Wastewater Treatment Techniques 生活排水対策		Group Solution	1280006 Continuing
Target Countries :		8 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English			
Appeal			
This course aims to develop capacity of central/local government to formulate measures adaptive to their own countries regarding waste water management			
Objective/Output		Target Organization / Group	
<p>[Objective] Effective policy targeting waste water management is formulated by corresponding organizations in central/local government.</p> <p>[Objective for Each Unit] (1)Being able to explain measures taken by central/local government in Japan regarding waste water management. (2)Being able to propose effective measures based on basic idea of waste water management systems and techniques. (3)Being able to explain and apply how to measure pollution (4)Being able to explain effective treatment measures against pollution from viewpoint of water recycle and water circulation (5)Action plan is formulated, and its implementation is reported through final report.</p>		This program is offered to technical staffs dealing with waterworks and sewerage in central/local government.	
Contents		Program Period	2012 / 8 / 19 ~ 2012 / 12 / 1
Participants will learn followings through lectures, site visits, practices and discussions: (1)Overview of local administration on water quality control and waste treatment (2)Wastewater treatment technique, waste disposal, and septic tank (3)Water quality evaluation and bacterial contamination monitoring (4)Overview of water service in Kitakyushu City, reservoir and water treatment facilities (5)Job report formulation & presentation, project cycle management, and action plan formulation & presentation		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
		JICA Center	JICA Kyushu
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Operation and Maintenance of Sewerage System and Waste Water Treatment Technique 下水道維持管理システムと排水処理技術		Group Trainers	1280103 Continuing
Target Countries : Applying countries are supposed to possess sewer systems.		10 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English			
Appeal			
<p>This program is designed for senior engineers engaged in operation & maintenance of sewer works. Under consultations by Fukuoka City Government or Kitakyushu City Government, lectures and site observations are efficiently combined into a program.</p> <p>This program will be highly beneficial, if it could be related to overseas projects targeting establishment of sewer facilities or capacity development of operation of the facilities.</p> <p>The training courses will also introduce a rather small scale sewer system of small to medium sized community in Kyushu area as well as the facilities and resources the two city governments own.</p>			
Objective/Output		Target Organization / Group	
<p>[Course Objective] Participants will be able to formulate & propose action plans to introduce sewer treatment & maintenance systems & techniques, utilizing the program.</p> <p>[Objective for Each Unit] (1) Be able to explain basic knowledge of sewerage systems and wastewater treatment (2) Be able to explain necessary knowledge for planning and designing of sewerage systems (3) Be able to explain necessary knowledge for maintaining sewerage systems (4) Be able to explain necessary knowledge for industrial wastewater treatment and pretreatment facilities for discharge to sewerage systems (5) Be able to formulate and propose sewerage systems improvement plans as "Action Plans"</p>		<p>[Target Organization] Governmental organization engaged in sewerage</p> <p>[Target Group] (1)Engineers engaged in sewer works (2)Occupational experience of more than 5 years in the area (3)Be under 50 years old</p>	
Contents		Program Period	2012 / 8 / 19 ~ 2012 / 9 / 29
<p>Participants will learn following subjects through lectures, site visits, practices, discussions and presentations.</p> <p>(1) Overview of environmental management policies in Fukuoka City or Kitakyushu City, Sewerage system in the local government</p> <p>(2) Planning and construction of a sewage plant, Treatment of sewage</p> <p>(3) Maintenance management for wastewater treatment plant, Quality control in sewage treatment,</p> <p>(4) Water quality regulation for plants and factories, Wastewater treatment plant, Practical demonstrations of water quality management</p> <p>(5) Action plan preparation & presentation, formulation & submission of final report</p>		Implementing Partner	Fukuoka City Government, Kitakyushu International Techno-Cooperative Association
		JICA Center	JICA Kyushu
		Cooperation Period	2011 ~ 2013
		Remarks and Website	First Training Course (Fukuoka City): 2012/8/19-2012/9/29 Second Training Course (Kitakyushu City): 2013/1/14-2013/3/9

Sewerage Technology for Wastewater Control and Urban Drainage 下水道維持管理・都市排水		Group Trainers	1280105 Continuing
Target Countries : <input type="text"/>		14 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English			
Appeal			
This program is organized so that participants can learn practical knowledge and technology on such topics as below: Operation and maintenance of sewer channels and treatment facilities, utilization of treated water and sludge as useful resources and regulation of factory effluent.			
Objective/Output		Target Organization / Group	
【Course Objective】 Based on the Action Plan proposed by respective participant, the acquired knowledge or skills shall be shared in his/her organization. 【Expected Module Outputs】 (1) To acquire and explain basic knowledge of sewerage systems and wastewater treatment. (2) To acquire and explain knowledge necessary for planning, designing and construction of sewerage systems.(sewer network, wastewater treatment plants) (3) To acquire and explain knowledge necessary for operation and maintenance of sewerage systems. (sewer network, wastewater treatment plants) (4) To acquire and explain knowledge necessary for sewerage administration and International cooperation. (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries, based on the knowledge and experiences acquired during the course.		【Target Organizations】 National/Local authority in charge of wastewater treatment, sewerage work and storm-water drainage 【Target Group】 (1) Senior technical officers in charge of sewerage and drainage management in central /local government. (2) University graduate or those who have equivalent technical qualifications in this field, and have more than five(5) years of practical experiences. (3) *Proficient in spoken and written English *Computer operation ability (Power Point, simulation) *under 40 years of age	
Contents		Program Period	2012 / 8/27 ~ 2012 /11 /2
【Activity in Preliminary Phase in home country】 Country Report is formulated to clarify the present situation and problems in the sewerage system of the participating country. 【Activity in Core Phase in Japan】 (1) General knowledge on the regulation and situation of sewerage system in Japan, especially in Osaka.(Lecture) (2) Planning, designing and construction of Sewerage facilities.(Lecture, Observation) (3) Operation and Maintenance of sewerage systems.(Lecture, Observation) (4) Sewerage Administration and international cooperation.(Lecture) (5) Preparation/Presentation of Action Plan. 【Activity in Finalization Phase in home country】 Knowledge/skills acquired during the training in Japan is shared among the relevant engineers in the participating organization. Report to JICA on the progress of the activity.		Implementing Partner	Public Works Bureau, Osaka City. Urban Infrastructure Technology Center Foundation
		JICA Center	JICA Kansai ()
		Cooperation Period	2011 ~ 2013
		Remarks and Website	

Water Environment Administration 水環境行政		Group Trainers	1280260 New
Target Countries :		10 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English			
Appeal			
This training program intends to transfer techniques and know-how of the national/local governments and private enterprises on water environment management. Since this training course covers various topics in a short period, the participation of the counterparts of related projects is recommended.			
Objective/Output		Target Organization / Group	
<p>[Objective] Be able to formulate and propose action plan for improvement of water environment administration, utilizing contents of the training program.</p> <p>[Objective for Each Unit] (1)Be able to explain about overview of national policies on water environment. (2)Be able to explain about water environment management in the local governments. (3)Be able to explain about water environment conservation activities by private enterprises. (4)Be able to formulate an action plan for improvement of water environment administration.</p>		<p>[Target Organization] Ministries or departments in charge of water environment management</p> <p>[Target Group] (1)Staffs in charge of monitoring, inspection, or inventory (2)Occupational experience of more than 3 years in the area (3)Be under 50 years old</p>	
Contents		Program Period	2012 / 7 / 1 ~ 2012 / 7 / 14
<p>[Preliminary Phase] Preparation of a report on overview and challenges on air pollution source management.</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)Pollution control in Japan, national policies for water environment conservation (2)Local policies for water environment conservation, monitoring of water quality, domestic wastewater control, activities for awareness raising, treaty on pollution prevention (3)Industrial wastewater treatment techniques, industrial wastewater management, wastewater control in small and medium enterprises, pollution control officer (4)Action plan formulation and discussions</p> <p>[Finalization Phase] Formulation and submission of reports to present progress of Action Plan</p>		Implementing Partner	Under Planning
		JICA Center	JICA Kyushu
		Cooperation Period	2012 ~ 2014
		Remarks and Website	Second Training Course (Viet Nam Only): 2013/2/3-2013/2/16

Sewage Works Engineering and Stormwater Drainage Technology 下水道技術・都市排水		Group Solution	1280779 Continuing
Target Countries :		20 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English			
Appeal			
This program is designed for governmental organization on sewage works to achieve consensus for challenges on sewage works engineering and stormwater drainage among the related persons and clarify the points on implementing projects and business for the solution.			
Objective/Output		Target Organization / Group	
<p>[Objectives] This program aims at achieving consensus for challenges on sewage works and stormwater drainage management among the related persons and clarify the issues on implementing projects and business for the solution.</p> <p>[Expected Results]</p> <p>(1) To understand and explain the related factors and procedure/methods for the designing/implementation of sewage works engineering and stormwater drainage technology</p> <p>(2) To analyze the challenges on sewerage and/or stormwater drainage works in relevant organization and formulate an improvement plan</p> <p>(3) To achieve consensus for challenges on sewage and/or stormwater drainage works among the related persons and clarify the issues on implementing projects and business for the solution</p>		<p><Target Organization>Administrative organizations concerning with sewage works engineering and stormwater drainage technology</p> <p><Target Group></p> <p>(1) To be senior technical officers engaged in sewage works and/or storm water drainage in central or local governments</p> <p>(2) To have more than three (3) years of experience in sewage works and/or storm water drainage technology</p> <p>(3) To be university graduates or persons who have equivalent technical qualifications in the field of sewage works and/or storm water drainage</p> <p>(4) To be under forty (40) years of age etc.</p>	
Contents		Program Period	under planning
<p>[Preliminary Phase] Formulation of the Country Report</p> <p>[Core Phase] The participants can identify the issue of their organization through making their country reports and lectures in Japan. They will also make up the improvement plan on their issue by advice and instruction of tutor, and make presentation on their improvement plan.</p> <p>[Finalization Phase] The participants will make presentation to their related persons in their organization about their improvement plan, and make report on their progress about their plan within six months.</p>		Implementing Partner	Sewerage Business Management Centre (SBMC)
		JICA Center	JICA Tokyo(Economy&Env.)
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Industrial Wastewater Treatment Techniques 産業廃水処理技術		Group Solution	1280815 Continuing
Target Countries : <input type="text"/>		7 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :English/Vietnamese			
Appeal			
This training program provides the participants with not only lectures but various workshops such as water quality test and designing exercise, so that the participants can strengthen the capacity to take appropriate treatment measures in the actual field. In particular, participants can foster applied skills through designing wastewater treatment facility by themselves using CAD. Kitakyushu City has a rich experience in overcoming pollution. Participants can learn using a wealth of examples			
Objective/Output		Target Organization / Group	
<p>[Objectives] Participants will be able to formulate and propose action plans to control industrial waste water, utilizing contents of the training program.</p> <p>[Objective for Each Unit] (1)To understand the importance of wastewater treatment and the water pollution (2)To understand the water pollution control process, and the general concept of wastewater treatment technologies (3)To acquire the method of selecting wastewater treatment by analysis, and the basic design of wastewater treatment facilities (4)To understand the techniques concerning the detail design and manufacturing control of the facilities for precipitation filtration, neutralization, removal of oil contents etc. (5)To formulate action plans, utilizing contents of the program.</p>		<p>[Current Duties] Be engineers in charge of wastewater treatment in government / municipal offices or manufacturing industries</p> <p>[Experience] (1)Have more than more than 5 years of occupational experience in the field of wastewater treatment (2)Be a university graduate, majoring in chemical, mechanical, electrical or civil engineering, or the equivalent. (3)Be fluent in English (TOEFL score 500 or more is preferred)</p>	
Contents		Program Period	2012 / 7 / 29 ~ 2012 / 11 / 23
<p>[Preliminary Phase in a participant's home country] Applying organizations are required to submit the Job Report and the Issue Analysis Sheet together with the application form for selection in Japan.</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)Basic of Water Pollution Control Policies (2)Basic Theory of Wastewater Treatment and Functions of Facilities (3)Basic Plan of Wastewater Treatment (Design and Construction of Wastewater Treatment Facilities) (4)Operation and Maintenance of Wastewater Treatment Facilities (5)Formulation of Action Plan</p> <p>[Finalization Phase in a participant's home country] Application and implementation of the action plan is discussed in the participant's organization and its result will be submitted after leaving Japan, based on the follow-up questionnaire to be provided during the phase in Japan.</p>		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
		JICA Center	JICA Kyushu
		Cooperation Period	2011 ~ 2013
		Remarks and Website	Second Training Course (Viet Nam Only): 2013/2/17-2013/4/20

Water Environmental Monitoring 水環境モニタリング	Group Trainers	1280962 Continuing
Target Countries :	11 participants	
Sector :Environmental Management/Water Pollution		
Sub-Sector :		
Language :English		
Appeal		
This program is designed for leading technical officers and laboratory staffs in the field of water quality monitoring to enhance their technical capabilities and to help them develop action plans for improving their operations. This training, providing opportunities to have exercises, site visits, etc. to learn the Japanese experiences and techniques on water pollution prevention, has a great meaning for countries suffering from water pollution.		
Objective/Output	Target Organization / Group	
[Objective] This program is designed for leading technical officers and laboratory staffs in the field of water quality monitoring to enhance their technical capabilities and to help them develop action plans for improving their operations. [Expected Results] 1. To be able to explain relations between various economic and social activities and water pollutions, mechanism of water pollutions and their effects on ecosystems, 2. To be able to explain the water quality management system based on water quality monitoring, 3. To gain essential and most relevant skills and methods to water quality monitoring and data processing and to make practice report, and 4. To analyze the challenges on water quality monitoring done in respective countries and to formulate an action plan.	(1)be technical officers or laboratory staffs in the field of water quality monitoring in central/local government or public institutions, (2)be university graduates (science or engineering) or have the equivalent academic background, and have enough knowledge on water environment, (3)not be less than twenty five(25) and not be more than thirty five (35) years of age, (4)have sufficient command of discussing and making presentation in English	
Contents	Program Period	2012 / 9 / 2 ~ 2012 / 10 / 20
[Preliminary Phase] Formulation of the Country Report [Core Phase] L: History of Water Pollution Problem in Japan L: Mechanism of Water Pollution L/V: Water Pollution and Its Effect L: Method of Sampling P: Measurement of Flow Rate and Velocity P: Analysis of Poisonous Organic Compound / Agrichemicals (HPLC) P: Analysis of Volatile Organic Compound (Headspace/GC/ECD) P: Analysis of Organic Compound(COD/TOC) P: Analysis of Microorganism P: Analysis of Benthic Environment P: Analysis of Poisonous Metal (AAS) P: Method of Analytical Data Processing [Finalization Phase] Action Plan introduction (presentation or discussion with related persons)	Implementing Partner	The National Environmental Research and Training Institute (NETI) Japan Environmental Sanitation Center (JESC)
	JICA Center	JICA Tokyo(Economy&Env.)
	Cooperation Period	2010 ~ 2012
	Remarks and Website	The National Environmental Research and Training Institute http://www.neti.env.go.jp/english/index.html Japan Environmental Sanitation Center (JESC) http://www.jesc.or.jp/en/index.html

The Integrated Water Management of Coastal Seas / Bays and Catchment Areas 沿岸域・内湾およびその集水域における統合的水環境管理		Group Solution	1280997 Continuing
Target Countries : [REDACTED]		10 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :Environmental Management/Water Pollution			
Language :English			
Appeal			
This program is designed for making the integrated water management plan for the water pollution for the coastal seas/bays and catchment area where the water pollution including eutrophication is severe.			
Objective/Output		Target Organization / Group	
<p>【Objective】 Participants and their organizations will formulate an Action Plan and implement the Action Plan for the improvement of the water management capacity and the water environment in the coastal seas/bays and catchment areas in respective countries.</p> <p>【Outputs】 1. Present situation and problems which should be solved in water environment management of the coastal seas/bays areas in respective countries are clarified through preparation and presentation of Inception Report. 2. The mechanism of the water pollution and the technique of environmental protection in the coastal seas/bays and catchment areas are comprehended, and those mechanisms of respective countries are clarified. 3. The approaches for the water environmental protection in the coastal seas/bays and catchment areas are comprehended, and the appropriate measures for respective countries are clarified. 4. Through the outputs of (2) & (3), participants formulate an Action Plan for improving water environment in the coastal seas/bays and catchment areas in their respective countries</p>		<p>【Target Organization】 central government (Ministry of Environment, Agriculture, Forestry, Fisheries, Natural Resources, Home Affairs, Internal Affairs and Communications), local government or central research institution which is responsible for water management of the coastal/ bays and catchment areas.</p> <p>【Target Group】 • officers, educators, and engineers in administrative bodies who presently need information and /or experience on the environmental management of enclosed coastal seas • Job experience: more than 5 years in the field</p>	
Contents		Program Period	2012/ 9/ 3 ~ 2012/11/3
<p>【Preliminary phase in a participant's home country】 To formulate and submit Inception Report through discussion among the staff in respective organizations</p> <p>【Core phase in Japan】 1. Presentation of the Inception Report</p> <p>2. General view of water pollution and provision A phenomenon of water pollution and its mechanism Model analysis of water pollution Field survey method and measurement for coastal seas/bays and catchment areas Ecosystem and material cycle Water environmental management and restoration technology</p> <p>3. Environmental law and policy Integrated water management</p> <p>4. Workshop and consultation for formulation of an Action Plan</p> <p>【Finalization phase in a participant's home country】 After returning to their countries, participants and their organizations revise and implement the Action Plan for improving water management capacity.</p>		Implementing Partner	International EMECS Center (International Center for Environmental Management of Enclosed Coastal Seas)
		JICA Center	JICA Kansai ()
		Cooperation Period	2010 ~ 2012
		Remarks and Website	http://www.emecs.or.jp/ind-ex-e.html

Sewage Treatment Technique for Central America and the Caribbean 中米・カリブ地域「生活排水処理」		Region-Focused Trainers	1284018 Continuing
Target Countries : Central America and the Caribbean's		7 participants	
Sector :Environmental Management/Water Pollution			
Sub-Sector :			
Language :Spanish			
Appeal			
This program is designed for participants to gain necessary knowledge & techniques to implement a sewage treatment system suited to their respective countries. While in Japan, participants will summarize what they have learnt and prepare dissemination materials to be used in their respective countries. The main focus is paid to sewage planning, maintenance of sewage treatment plants, and various sewage treatment techniques.			
Objective/Output		Target Organization / Group	
<p>【Course Objective】 Participants will gain necessary knowledge and skills to plan and implement a sewage treatment system suited to their countries, and share the knowledge within their respective countries.</p> <p>【Expected Outputs】 (1) To understand the issues of the sewage treatment in their respective countries. (2) To understand the importance of sewage treatment in relation to the preservation of water-environment and living-environment. (3) To gain basic knowledge on sewage treatment planning. (4) To gain basic knowledge on sewage treatment techniques. (5) To gain basic knowledge on maintenance and management techniques of sewage treatment facilities. (6) To plan dissemination lectures/workshops based on the training course and implement them within their respective organizations.</p>		<p>【Target Organization】 • Central/local government and public organizations in charge of planning, operation, maintenance and management of sewage treatment facilities.</p> <p>【Target Group】 • Technical officials in charge of sewage treatment at central/local government or public organizations • 3 years of experience in the field concerned • The belonging organization owns a sewage treatment facility, or is in charge of its plan, operation and maintenance</p>	
Contents		Program Period	2012 / 9 / 19 ~ 2012 / 11 / 2
<p>【Preliminary Phase】 Formulation and submission of Job/country report</p> <p>【Core Phase in Japan】 • Issue Analysis Workshop • Issues on water environment and sewage treatment • Japan's experience on the sewage treatment regulations and current problems • Theory of sewage treatment planning • Sewage treatment management • Issues of sewage treatment planning in developing countries • General theory of sewage treatment technique • Current conditions of the disposal site in Higashihiroshima • Maintenance and management of sewage treatment facilities • Preparation and presentation of dissemination materials</p> <p>【Finalization Phase】 • Dissemination activities (in home country) • Submission of progress report</p>		Implementing Partner	HigashiHiroshima City
		JICA Center	JICA Chugoku
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Creation of Recycling Society based on Hazardous Waste Management and Appropriate Disposal in Asia 有害廃棄物管理・適正処理を基盤とするアジアの循環型社会形成		Region-Focused Solution	1284209 Continuing
Target Countries : Asian countries		12 participants	
Sector :Environmental Management/Industrial Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This program is designed for Authority in charge of the waste management of LGU and Central Government to learn appropriate disposal of waste recycling and hazardous waste, aiming at the improvement of the plan-making ability of waste management for creation of recycling society.			
Objective/Output		Target Organization / Group	
<p>Issues for implementation/improvement of the Hazardous Waste Management and the waste recycling are identified, and the policy direction becomes clear.</p> <p>To be able to explain the issues of hazardous waste, including their background and existing counter measures. Respective duty and issues within his/her organization will be confirmed/identified.</p> <p>To understand the waste management administration system for recycle-based society, and be able to compare the case of Japan with respective country's situations.</p> <p>To understand the technology of hazardous waste disposal(Waste collection, Transportation, Intermediate Processing, Final Disposal, Reuse, Recycling) and be able to compare the case of Japan with their respective country's situations.</p> <p>Based on the problem analysis of each organization, which participants come from, the action plans in respective country will be prepared.</p> <p>Discussions on the future plans for improvement of Hazardous Waste Management administration are undertaken and clear future directions are presented.</p>		<p>1) Current Duties: be mid-career officials presently in charge of hazardous waste management and central government agencies</p> <p>2) Educational Background: be university graduates or possess equivalent technical qualifications in this field</p> <p>3) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more</p> <p>4) Health: must be in good health, both physically and mentally, to undergo the course</p> <p>5) Must not be serving any form of military service.</p>	
Contents		Program Period	2012 / 7 / 12 ~ 2012 / 8 / 10
(Preliminary Phase) Make the Job Reports, presentations and discussions.		Implementing Partner	Japan Environmental Sanitation Center
(Core Phase in Japan) 1.Discuss for problem resolution of trainee by learning the policy for formulation the recycle-based society by the national and local government, the system for waste management administration and role of stake-holder. 2.Discuss problem resolutions of trainees by learning the efforts about the hazardous waste disposal technology used by local government and private companies through lectures, field visits and practical work. 3.Preparation and presentation of country reports, interim discussions and provision of advice for action plans.		JICA Center	JICA Yokohama
		Cooperation Period	2010 ~ 2012
(Finalization Phase) Sharing the action plan in their own countries and report the progress of the action plan.		Remarks and Website	

Seminar on Recycling Industrial Policy アジアリサイクル産業政策セミナー		Region-Focused Solution	1284421 Updated
Target Countries : Asia		7 participants	
Sector :Environmental Management/Industrial Solid Wastes			
Sub-Sector :Private Sector Development/Small and Medium Enterprises/Supporting Industries Promotion			
Language :English			
Appeal			
To achieve sustainable economic growth in Asia, we need to establish recycling society in each country and implement effective utilization of resources. For the purpose, the important approach is not only regulative policy but industrial policy. This seminar fosters talent to plan policy for developing recycling industry through learning 3R policy in Japan, key concepts and measures for industrial policy.			
Objective/Output		Target Organization / Group	
<p>【Objective】 Participants will be able to understand key concepts related to recycling industrial policy, and enhance their capacity for planning policy which promotes development of recycling industry in their home country.</p> <p>【Outputs】 1. (Preparatory activity) To understand and recognize the current situation, issues and problems of the recycling industry to be tackled. 2. To understand the background and necessity of creating a society with an environmentally-sound material cycle in each Asian country, and an essential policy approaches for this purpose. 3. To Understand recycling systems and policies in Japan and explain difference from systems in their own countries. 4. To be able to explain key concepts related to 3R Industrial Policy. 5. To understand the differences in recycling facilities between Japan and their own countries through visits to facilities related to recycling. 6. To be able to explain the applicability of recycling systems in each countries. 7. To draft action plan for promoting recycling industrial policy in their countries. 8. (Follow-up activities) Introduce each activity in their country, and handover to the participants for the following year.</p>		<p>【Target Organizations】 Authorities and related public agencies engaged in development of recycling industrial policy currently or in the future.</p> <p>【Target Group】 Administrative officers in charge of development of recycling industrial policy currently or in the future. Relevant experience is not required as a condition.</p>	
Contents		Program Period	under planning
1. Presentation of Country Report/Discussion 2. Background of the necessity for society with an environmentally-sound material cycle, 3R policy, Recycling Industrial Policy approach. 3. Laws relating to 3R, Environmental organization (Eco-Town projects), Comparison of each countries. 4. Key concepts related to 3R Industrial Policy (Extended Producer Responsibility (EPR), Industrial Parks (EIP), Zero Emissions, Quality standards for recyclables and products made from recycled material, 3R statistics and role for ministry in charge of industrial) 5. Visits to recycling facilities and production facilities 6. Group discussions and presentations on recycling policy in their countries in the view of environmental regulation policy and industrial policy. 7. Action Plan for promoting recycling industrial policy in their countries. 8. (Follow-up activities) Report to their own organizations, and follow-up report to JICA		Implementing Partner	Under Planning
		JICA Center	JICA Tokyo(Economy&Env.)
		Cooperation Period	2012 ~ 2014
		Remarks and Website	This course follows the policy recommendation by Economic Research Institute for ASEAN and East Asia(ERIA) towards integration in Asian countries.

Solid Waste Management by Local Government 地方自治体における廃棄物処理		Group Solution	1280091 Continuing
Target Countries : [REDACTED]		10 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :Environmental Management/Urban Solid Wastes			
Language :English			
Appeal			
<p>The courses (A & B) provide the overview and techniques of waste dispersal, from waste reduction, sorted collection, intermediate treatment to final disposal, and in consideration with social and economic situation as well as health and sanitation.</p> <p>Participants will get findings from the multi-approaches among citizens, private sectors and government, and formulate practical action plan to improve the issues in the respective country.</p> <p>The courses (C & D) provide the knowledge to understand the method to make a sustainable society through activities of local government and communities in Japan, especially Nishinomiya city of Hyogo Prefecture. Participants will make an action plan concerning measures necessary for the building of a sustainable recycle-oriented society. The target area of C course is Pacific region, and the target area of D course is Asian region.</p>			
Objective/Output		Target Organization / Group	
<p>【Objective】 A draft plan for improvement of solid waste management will be formulated by a local government of an area designated as a model.</p> <p>【Outputs】 (1) To grasp the reality and issues on waste management and to extract practical hints for solution through exchanging views among participants (2) To be able to explain the current state of measures against waste taken by a local government for the effective use in each country. (Planning, Effective collection, Transportation method and Sanitary treatment/disposal method etc.) (3) To be able to explain the roles of and cooperation among citizens, businesses, and local governments for the appropriate waste management (4) Action plan is formulated to solve issues related to waste management based on the reality of each country (5) Action Plan will be studied by each participating organization</p>		<p>【Target Organizations】 Local governments & related organizations engaged in solid waste management of a model area designated by each country.</p> <p>【Target Group】 (1)Current Duties: be an administrative officer/ technical officer engaged in solid waste management. Officers of the national government, in charge of supporting local governments, are also qualified. (2)Experience: have more than 3 years' experience in the field of solid waste treatment or have equivalent level of knowledge. (3)Others: participants should stay engaged in solid waste management after the program.</p>	
Contents		Program Period	2012 / 8/20 ~ 2012 / 10/13
<p>【Preliminary Phase in a participant s home country】 Formulation and submission of Inception Report</p> <p>【Core Phase】 Related to output (1): Sharing the information & ideas on waste (type and composition) through report presentation & discussion Related to output (2): Waste treatment planning, Reducing wastes, Waste collection, Intermediate treatment, Waste incineration, Final disposal and Recycling. Discussion and suggestions to apply the above mentioned items to participants' countries. Related to output (3): Citizens role and the importance of the collaboration between local government and citizens in the field of solid waste management, environmental education and public awareness to reduce waste. Related to output (4): Workshop and Discussion to design action plan and its improvement through individual guidance</p> <p>【Finalization Phase】 Submission of final report to JICA</p>		Implementing Partner	Hyogo Environmental Advancement Association, Learning and Ecological Activities Foundation for Children
		JICA Center	JICA Kansai ()
		Cooperation Period	2011 ~ 2013
		Remarks and Website	This course will be conducted 4 times in FY 2012. A: 2012/8/20 ~ 2012/10/13 B: 2013/1/14 ~ 2013/3/9 C: 2012/11/5 ~ 2012/12/1 D: 2012/6/25 ~ 2012/7/21

Waste Management Technique 廃棄物管理技術	Group Solution	1280100 Continuing
Target Countries :	8 participants	
Sector :Environmental Management/Urban Solid Wastes		
Sub-Sector :		
Language :English/Vietnamese		
Appeal		
This program is designed for engineers engaged in waste management. Participants will have many opportunities to learn & practice about waste management techniques such as sanitary landfill and composting, together with measures to promote community participation, focusing on environmental education systems. It would be highly beneficial, if the applying organizations are planning to improve waste management systems, final disposal sites, and awareness raising.		
Objective/Output		Target Organization / Group
<p>[Course Objective] Participants will be able to formulate & propose action plans to improve waste management processes (discharge/storage, collection, intermediate treatment and final disposal), utilizing the program.</p> <p>[Objective for Each Unit] (1)Be able to explain the historical process of environmental policy and waste management system in Japan. (2)Be able to explain waste treatment processes (collection, transportation, intermediate treatment, recycling, and composting) in Japan (3)Be able to explain the techniques and measures of final disposal site in Japan. (4)Be able to explain concrete methods of environmental education and awareness raising. (5)Be able to formulate and present action plans</p>		<p>[Target Organization] Governmental organization engaged in waste management</p> <p>[Target Group] (1)Engineers in charge of waste management processes (discharge/storage, collection, intermediate treatment and final disposal) (2)Occupational experience of more than 3 years in the area (3)Be under 45 years old</p>
Contents		Program Period
Participants will learn the followings through lectures, site visits, practices, discussions and presentations. (1)Overview of waste management, Waste treatment in Kitakyushu City, Industrial waste management, Promotion of sound material cycle society, Environmental impact assessment, Global issues (2)Composting, Time and motion study, Waste composition, Treatment of hazardous waste, Eco-town project, (3)Regulation and structure of final disposal site, Maintenance of final disposal site, Application to overseas, Methane fermentation (4)Environmental education in Kitakyushu City, Waste reduction activities in communities, Trainers' training by JICA, Environmental Museum and volunteer activities (5)Project cycle management, Action plan formulation & presentation, Preparation of final report		Implementing Partner Kitakyushu International Techno-cooperative Association JICA Center JICA Kyushu Cooperation Period 2011 ~ 2013 Remarks and Website Second Training Course: 2012/10/21 - 2012/12/22 Third Training Course (Only for Viet Nam): 2013/2/17 - 2013/4/20

Management of Composting Project コンポスト事業運営		Group Solution	1280257 New
Target Countries :		10 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This training program intends to transfer techniques and know-hows on management of composting projects, including technical information, quality control, marketing, and capacity development of stakeholders. Since organic waste represents around 60% of total waste in developing countries, promotion of composting is effective as a measure to reduce solid waste.			
Objective/Output		Target Organization / Group	
<p>[Objective] The drafted action plan at the end of the training course is actually implemented as it is planned in the organizations in charge of composting projects in the local government.</p> <p>[Objective for Each Unit] (1)Be able to explain about overview of national/local policies and systems on waste management. (2)Be able to explain about overview of technical information of composting. (3)Be able to explain about marketing strategies and distribution channels. (4)Be able to formulate an action plan to improve composting projects.</p>		<p>[Target Organization] Departments that deal with waste management in the local government, especially using composting methods The participants should be in charge of waste management at the local government.</p> <p>[Target Group] (1)Be in charge of waste management at the local government (2)Have more than 3 years of occupational experience in the area of waste management at the local government (3)Be under 50 years old</p>	
Contents		Program Period	2012 / 8/26 ~ 2012 / 9/14
<p>[Preliminary Phase] Preparation of a report on overview and challenges on composting projects.</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)Legal framework of sound material cycle society in Japan, overview of solid waste administration, policies and strategies of waste management in Kitakyushu City (2)Theories and practices on composting methods according to scales, observations of compost center (3)Socialization of composting projects, source separation and collection of organic waste, cost-benefit analysis of projects, observation and discussion on successful case (4)Action plan formulation and discussions</p> <p>[Finalization Phase] (1)Formulation and submission of reports to present progress of Action Plan (2)Follow-up seminar, according to the progress of the plans</p>		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
		JICA Center	JICA Kyushu
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Design and Maintenance of Semi Aerobic Landfill Site (Fukuoka Method) 準好気性埋立(福岡方式)処分場の設計・維持管理		Group Solution	1280259 New
Target Countries : <input type="text"/>		10 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This training program intends to promote introduction and effective management of semi aerobic landfill (Fukuoka Method), one of techniques for final disposal site. Participants are able to enhance practical knowledge and techniques, as the curriculum covers design, maintenance, and conservation of surrounding environment, focusing on practices.			
Objective/Output		Target Organization / Group	
<p>[Objective] Be able to formulate and propose action plan for improvement of landfill sites, utilizing contents of the training program.</p> <p>[Objective for Each Unit] (1)Be able to explain about various methods of waste disposal around the world. (2)Be able to explain about methodologies for designing of semi aerobic landfill. (3)Be able to explain about maintenance management of semi aerobic landfill. (4)Be able to explain about environmental management in semi aerobic landfill. (5)Be able to formulate an action plan for improvement of landfill sites.</p>		<p>[Target Organization] Governmental organizations in charge of management of the final disposal site</p> <p>[Target Group] (1)Staffs in charge of management and maintenance of the final disposal site (2)Occupational experience of more than 5 years in the area (3)Be under 50 years old</p>	
Contents		Program Period	2012 / 7 / 1 ~ 2012 / 7 / 28
<p>[Preliminary Phase] Preparation of a report on overview and challenges of landfill sites.</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)Waste disposal in Fukuoka City, Examples from foreign countries to introduce semi aerobic landfill (2)Site selection, Theories on semi aerobic landfill, Construction of the new disposal site, Improvement of existing disposal site (3)Entrance management, Operations for dumping and soil-covering, Leachate treatment (4)Composition analysis of solid waste and leachate, Quality control of discharged water, Inspection of underground water and generated gas, Application to CDM (5)Action plan formulation and discussions</p> <p>[Finalization Phase] (1)Formulation and submission of reports to present progress of Action Plan (2)Follow-up seminars, according to the progress</p>		Implementing Partner	Fukuoka Environmental Foundation
		JICA Center	JICA Kyushu
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Urban Solid Waste Management by Local Government 地方自治体における都市廃棄物処理		Group Solution	1280802 Continuing
Target Countries :		12 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This course provides integrated training from upstream to downstream of solid waste management covering planning, collection, intermediate treatment, incineration and disposal as well as recycling. This course is carefully designed to facilitate acquiring necessary knowledge for technical staffs and administrative staffs.			
Objective/Output		Target Organization / Group	
<p>Overall Goal: In participatory countries, effective and efficient solid waste management plan is designed and operated</p> <p>Program Objective: More effective and efficient waste management plan to be proposed and discussed in participatory countries and organizations based on the action plans designed by participants.</p> <p>Expected Module Output:</p> <p>(1) To realize issues on solid waste managements and get hints to address them through exchange the information and ideas with lecturers and/or other participants/ (2) To acquire knowledge and skills of urban waste countermeasures through the introduction of detailed actual conditions of waste treatment in major Japanese cities, mainly focused on Osaka city/ (3) To explain the role of citizens and the importance of the collaboration between local government and citizens/ (4) To design action plans which propose some solutions towards the issues and problems on solid waste management of each participatory country./ (5) In participants home countries, the interim report is approved by the organization concerned.</p>		<p>- Engineers or administrative officials of waste management experience in local governments (or national governments' sections which support local governments' organizations) who will continue working in the same field after the training course</p> <p>- to have more than 3 years'experience</p> <p>- Age: 30- 45</p> <p>- to have a sufficient command of spoken and written English</p>	
Contents		Program Period	2012 / 7 / 23 ~ 2012 / 9 / 22
<p>- Preparation and presentation of Country Report, Current situation and problems with waste management in developing countries: Solid Waste Management for Sustainable Society, Environmental Hygiene in Developing Countries</p> <p>- Current situation and problems of waste management in Japan: Waste Management Administration of Japan, Master Plan for General Waste Management in Osaka City</p> <p>- Collection and transport work: Time and Motion Study (efficient use of collection vehicles)/ Intermediate treatment work: Waste Reduction Policy and Recycling Services of Osaka City, Outline of Composting & Recycle/ Final disposal: Selection and Panning of Final Disposal Site/ Waste that requires special treatment: Hazardous Waste Disposal, Disposal of Medical Waste from Laboratories and Hospital</p> <p>- Collaboration with citizens: Public-Private Cooperation (Waste Reduction Promotion, Beautification)</p> <p>- Action Plan preparation, presentation, discussion, sharing and improvement of Action Plan in the participating organization, submission of Follow-up Report describing progress of Action Plan</p>		Implementing Partner	Global Environment Centre Foundation(GEC)
		JICA Center	JICA Kansai ()
		Cooperation Period	2011 ~ 2013
		Remarks and Website	Global Environment Centre Foundation Website: http://gec.jp/ The first implementation: 2012/7/23-2012/9/22 The second implementation: 2012/10/8-2012/12/8 (planned)

Comprehensive Solid Waste Management and the 3Rs 廃棄物総合管理及び3R		Group Solution	1280974 Continuing
Target Countries :		12 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This program is designed for national and local government officials to identify a direction of policy development for the improvement of the situations related to the waste management and recycling through learning the policies and technologies for sound waste management and the 3Rs (Reduce, Reuse and Recycling) of Japan.			
Objective/Output		Target Organization / Group	
The expected outcome of this program is for the organization to which a participant belongs to sort out directions of policy development for the improvement of waste management in their own countries based on an action plan to be drawn up by the participant through this program.		1) Be ranked as at least a director in charge of SWM planning in central governments, provincial governments or local bodies	
1 To be able to explain the overview and guiding principles of Japan's policy systems and technologies for waste management and the establishment of sound material-cycle society.		2) Have more than 2 years' experience in the relevant field	
2 To be able to explain the overview and features of Japan's systems and policies for waste management and the 3Rs		3) Be university graduates or possess equivalent technical qualifications in this field	
3 To be able to explain waste management technologies that could be applicable to their own countries		4) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more	
4 To draw up an action plan for the improvement of waste management and recycling administration, taking account of the analysis of issues the participant's organization are facing.		5) Health: must be in good health, both physically and mentally	
		6) Must not be serving any form of military service.	
Contents		Program Period	2012 / 6 / 6 ~ 2012 / 7 / 28
(Preliminary Phase) Making the Job Reports, presentations and discussions.		Implementing Partner	Japan Environmental Sanitation Center
(Core Phase in Japan) 1. Learning the system and mechanisms for waste management in Japan. 2. Discussing the problem resolutions of trainees by learning the management and technologies for waste management and 3R. 3. Preparing and presentation of Action Plan.		JICA Center	JICA Yokohama
(Finalization Phase) Sharing the action plan in their own countries.		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Capacity Development for Local Government in Comprehensive Solid Waste Management in the Republic of Peru ペルー国向け地方自治体のための固形廃棄物総合管理		Region-Focused Solution	1284017 Continuing
Target Countries : PERU		15 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :Spanish			
Appeal			
The course is about the issue of solid waste in urban area which is urgently needed to be tackled. The course will introduce the practical cases in Japan, such as examples of 3R activities in societies, management policy of the local government, treatment techniques, new energy generation by the solid waste etc. The formulation or revision of master plan by each participant is expected as a result of the course.			
Objective/Output		Target Organization / Group	
【Purpose】 A concrete Master Plan or Action Plan will be formulated or revised in each local government which the participant belongs to.		【Target Organization】 Local governments which are the target of Yen Loan project on waste management.	
【Module (outputs)】 (1) To extract clues for improvement through understanding outline and features of the Japanese solid waste management and comparing to own country. (2) To understand techniques related to treatment of the solid waste and recycling. (3) To acquire know-how for promoting environmental consciousness through experiences (4) To present the plan for improving the system of the solid waste management in own organization and actual activities and responsibility of participants.		【Target Group】 (1) administrative officer in Environmental management section, who understands technical matter (technical manager or researcher is not appropriate for this course) (2) five years or more experience in waste management (3) be a university graduate or equivalent	
Contents		Program Period	2013 / 1 / 14 ~ 2013 / 2 / 20
【Preliminary Phase in the participant's country】 (December 14-January 13 (tentative)) Formulation of Inception Report		Implementing Partner	International Center for Environmental Technology Transfer (ICETT)
【Training Program in Japan】 (January 14-February 20 (tentative)) (1) Find out the current problems and the improving plan among participants and overview of Solid Waste Management in Japan (2) Solid Waste Management Technologies (3) Environmental Education and awareness raising (4) Action Plan Development		JICA Center	JICA Chubu
【Finalization Phase in the participant's home country】 (February 21-May 30 (tentative)) (1) Implementation of the Action Plan (2) Submission of the Progress Report		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Waste Management Technology and 3Rs for Central and South American Countries 中南米地域 廃棄物処理技術及び3R		Region-Focused Solution	1284026 Continuing
Target Countries : South American Countries		12 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :Spanish			
Appeal			
This program aims at improvement and strengthening of solid waste management administration through learning Japanese 3R promotion policy etc.			
Objective/Output		Target Organization / Group	
【Objective】 The Plan to improve solid waste management administration is officially formulated by the participants organization, based on the Action Plan proposed through the program in Japan.		【Target Organization】 Central or local government in charge of solid waste management including 3R (Reduce, Reuse and Recycle)	
【Outputs】 1.Understand administration system of solid waste management aiming at establishment of a sound material-cycle society 2.Understand waste treatment technology (collection and transportation, intermediate treatment, final disposals, reuse and recycling etc.) 3.Propose Action Plan in order to improve and strengthening of solid waste management administration, based on analysis of each problems and obtained knowledge and skills in Japan		【Target Group】 1. Officers in charge of solid waste management including 3R (Reduce, Reuse and Recycle) in central / local government 2. Have at least five (5) years of practical work experience	
Contents		Program Period	2012 / 8 / 12 ~ 2012 / 9 / 22
【Preliminary Phase】 Preparation and submission of Country Report		Implementing Partner	Japan Environmental Sanitation Center, Sapporo city
【Phase in Japan】 1.Administration system of solid waste management: Waste management system in Japan, Approach to 3R for establishing a sound material-cycle society, Waste management and 3R policies at local government, Environmental(waste) education, Partnership with community 2.Waste treatment technology: Collection and transportation, intermediate treatment, final disposal, reuse and recycling ,Compost etc. 3.Propose "Action Plan" : Presentation of Country Report, Discussion, Presentation of Action Plan		JICA Center	JICA Hokkaido (Sapporo)
		Cooperation Period	2010 ~ 2012
【Finalization Phase】 Submission of the "Final Report" describing the progress of implementing the Action Plan within 3 months		Remarks and Website	

Waste Management for Promoting Recycling-Oriented Societies in Central and South America 中南米地域 循環型社会形成促進のための廃棄物管理		Region-Focused Solution	1284146 Continuing
Target Countries : Central and South American Region		10 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :Spanish			
Appeal			
To draw applicable solution for waste management by learning from Japanese cases of 3R, management policy of administration, and technology of SWM.			
Objective/Output		Target Organization / Group	
<p>【Purpose】 Comprehensive master plan or related action plan on SWM will be formulated, and accordingly, the SWM system shall be improved. Thus, current problems/ challenges in the said field will be solved and recyclable society will be further promoted in Central and South America.</p> <p>【Modules (outputs)】 (1)Understanding the outline and characteristics of administrative waste management in Japan and extracting hints for improvement comparing with the status of respective country. (2)Understanding technologies for waste treatment and recycling. (3)Mastering know-how on encouragement for environmental awareness practicing by themselves focusing on waste management. (4)Presenting each of their plan in national/local government to be improved on waste management system for establishing a sound Material-Cycle Society and their role and duty accordingly.</p>		<p>【Target Organization】 Central and local government who are facing the solid waste management problems in Central and South American countries. Local government officials are encouraged to participate in.</p> <p>【Target Group】 (1) administrative officer in Environmental management section, who understands technical matter (technical manager or researcher is not appropriate for this course) (2) 5 years or more experience in waste management (3) be a university graduate or equivalent</p>	
Contents		Program Period	2012/10/ 4 ~ 2012/11/17
<p>【Preliminary Phase in the participant's home country】 (September 4 - October 3 (tentative)) Formulation of Inception Report</p> <p>【Core Phase in Japan】 (October 4 - November 17 (tentative)) (1)Understanding Japanese policy, treatment system and recycling laws on waste management Presenting current situation and problems of each country, local area and workplace through Job report in order to share with participants and clarify each problem (2)Verifying 3R's methods, management system & technology for plastics, domestic appliances & automobile based on Japanese recycling laws (3)Understanding each role and duty for encouraging environmental awareness in local government, NPO, School, household, enterprises and community. Considering practical 3R's activities in small scale unit involving the local people for establishing a sound Material-Cycle Society (4)Deliberating and making framework of master-plan or action plan as a result of the course to solve their problems and presenting the plan</p> <p>【Finalization Phase in the participant's home country】 (November 18 - February 17 (tentative)) (1) Implementation of the Action Plan (2) Submission of the Progress Report</p>		Implementing Partner	International Center for Environmental Technology Transfer (ICETT)
		JICA Center	JICA Chubu
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Solid Waste Management with Community Participation 市民参加型廃棄物管理研修		Region-Focused Solution	1284224 Continuing
Target Countries : Asian countries		10 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
The course intends to provide integrated skills for awareness raising in waste management through lectures and practices by experts and researchers. In addition, participants will have chance to learn waste treatment techniques applicable to developing countries, such as composting and sanitary landfill. The course will be highly effective, if collaborated with projects for waste management focusing on community participation.			
Objective/Output		Target Organization / Group	
<p>[Objective] Participants will be able to formulate & propose action plans to enhance waste management through community participation, utilizing the program.</p> <p>[Outputs] (1)Being able to explain basic legal frameworks and systems in central / local governments. (2)Being able to explain environmental education and related activities with community participation (3)Being able to apply and carry out adequate final disposal method (4)Being able to perform composting of organic waste (5)Action plan is formulated, and its implementation is reported through final report.</p>		<p>[Target organization] This program is offered to governmental organizations which are engaged in solid waste management or environmental education for citizens.</p> <p>[Target Group] (1)Be government officers who are presently engaged in solid waste management or environmental education for citizens. (2)Have more than 3 years of occupational experience in the area</p>	
Contents		Program Period	2012/ 9/ 9 ~ 2012 /11 /3
Participants will learn followings contents through lectures, site visits, practices, discussions and presentations.		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
(1)Overview of waste management and its legal frameworks in Japan, Trash separation, collection and treatment system in local governorates, Technologies in recycling solid waste and industrial waste, Technologies in treating medical waste and hazardous waste		JICA Center	JICA Kyushu
(2)Environmental education and enlightenment in local government, Environmental activities by related facilities and organizations, Discussion on environmental activities with citizens		Cooperation Period	2010 ~ 2012
(3)Systems and rules in final disposal dump in Japan, Semi aerobic landfill, Landfill in developing countries		Remarks and Website	
(4)Theory of organic waste composting, Case study of organic waste composting, Basic procedure of organic waste composting			
(5)Formulation & presentation of action plan, preparation of final report			

Sustainable Solid Waste Management in CARICOM Member States カリコム諸国における持続可能な廃棄物管理		Region-Focused Solution	1284305 Updated
Target Countries : CARICOM Countries		6 participants	
Sector :Environmental Management/Urban Solid Wastes			
Sub-Sector :			
Language :English			
Appeal			
This course is designed for solving solid waste management issues which participating organizations are facing, and also enhancing regional cooperation			
Objective/Output		Target Organization / Group	
<p>【Objective】 Ability for solid waste management in participating organization is improved</p> <p>【Objective for each unit】 (Before coming to Japan)Issues on solid waste management in respective countries are sorted out. Issues on sustainable solid waste management are sorted out again considering the situation of Okinawa and Japan. Issues on establishing participatory solid waste management are sorted out. Solution for the issues sorted out above is drawn up. (After leaving Japan)The action plan and what participants gained in Okinawa will be introduced to participating organizations.</p>		<p>Central/Local ministries or relevant organizations in charge of solid waste management. Companies belonging to the recycling/solid waste management companies association or companies planning to establish the association (In the case of planning, recommendation from the governmental bodies is necessary) Staff of such organizations with more than 3 years of experience in the field of solid waste management. University graduate or equivalent. Have a good command of English in speaking, listening and writing. Healthy in both physically and mentally (As this course includes field works, pregnancy is regarded as a disqualification). Not serving in military.</p>	
Contents		Program Period	2012 / 5/23 ~ 2012 / 7/21
<ul style="list-style-type: none"> • Preparation of presentation materials and Formulation of Job Report • Solid Waste Management Legislation in Japan • Waste management in Japan and developing nations • Current situation and issues of final disposal site • Fukuoka Landfill Method and case study of improvement on landfills • Role of municipality • Necessity for citizens and companies to cooperate • Collection of garbage by type through citizens and companies cooperation • Recycling and tackle by private sector • Environmental education • Various style of recycling • Composting • Wasted tires • Waste to energy • Discussion on the plan which aim sustainable solid waste management • Identify key problem of solid waste management in respective countries and organizations • Discussion on the direction for solution creation • Formulation and presentation of an action plan • Share and discuss the action plan in respective organizations • Modify the action plan • Formulate and submit the progress report and completion report (6 months after returning to respective countries) 		Implementing Partner	NGO Okinawa Citizens' Recycling Movement
		JICA Center	JICA Okinawa
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Promotion of Cleaner Production for Southeast European Countries 南東欧地域 クリーナープロダクション振興		Region-Focused Solution	1284076 Continuing
Target Countries : Southeast European Countries		10 participants	
Sector :Environmental Management/Cleaner Production			
Sub-Sector :Private Sector Development/Industrial Technology			
Language :English			
Appeal			
This program is designed to support participants introduce Cleaner Production(CP) and promote activities by learning both theoretical and practical aspects of CP such as concept, element technologies for reduction of environmental burden, energy saving, resource saving and recycling, and actual cases in Japan.			
Objective/Output		Target Organization / Group	
<p><Course Objective> CP promotion plan is formulated in participants organization.</p> <p><Objective for each unit></p> <ol style="list-style-type: none"> To understand definition and concept of CP and role of government and private sector in promoting CP, and to propose a solution for problems on productivity enhancement based on reduction of environmental contamination. To be able to explain knowledge, techniques and actual cases of low environmental burden technology To be able to explain knowledge, techniques and actual cases of energy saving and multiple usage of energy To be able to explain knowledge, techniques and actual cases of resource saving and recycle To be able to propose an action plan for promotion of CP To report the progress of implementation of action plan after 6 months of core phase in Japan 		<p><Target Organization> Governmental organization, university, research institution, company and NGO concerned with promotion of Cleaner Production (CP)</p> <p><Expected Job Title> Governmental administrators concerned with CP, experts registered in CP center, technicians in companies actively involved in CP and NGO leaders</p> <p><Expected Job Experience> Over 5 years experiences</p> <p><Other Qualifications> Under 50 years old</p>	
Contents		Program Period	2012 / 9 / 17 ~ 2012 / 10 / 27
<ol style="list-style-type: none"> To learn that CP is an effective measure for productivity enhancement and reduction of environmental contamination. (1) Definition and concept of CP (2) In-house activities supporting CP promotion (3) Quality improvement and productivity enhancement by introducing CP (4) Good practices of CP To learn measures and efforts for reduction of environmental pollution and creation of sustainable society by introducing CP. (1) Cases of overcoming industrial pollution (2) Environmental administration in Japan (3) Measures against global warming (4) Site visits To learn meaning, measures and current situation of energy conservation (1) Energy conservation measures in Japan (2) Promotion of Energy conservation and low carbon society (3) Energy conservation in SME (4) Renewable energy development To learn creation of sustainable recycle-oriented society by waste administration, 3R and recycling techniques (1) Measures and techniques supporting recycle-oriented society (2) Necessity of 3R promotion and technology development (3) Actual cases of 3R techniques in companies Presentation, discussion, tutorial, and self-study for preparing action plan To consider action plan in participant's organization and to submit progress report. 		Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
		JICA Center	JICA Kyushu
		Cooperation Period	2011 ~ 2013
		Remarks and Website	The program is based on Energy Management for Central and Eastern European Countries which was conducted from 2004 to 2006. Low environment impact, Resource saving, Recycling and Practice at enterprises are added for the new contents.

Cleaner Production in Process Industries for Latin American Countries (for Managers and Engineers of Process Industries) 中南米地域プロセス工業におけるクリーナープロダクション	Region-Focused Solution	1284155 Continuing
Target Countries : Latin American Countries		7 participants
Sector :Environmental Management/Cleaner Production		
Sub-Sector :Private Sector Development/Industrial Technology		
Language :Spanish		
Appeal		
This program aims to make and implement plans to solve the issues of participants by using the technologies and techniques related to cleaner production. These plans will include conserving raw materials, water and energy; eliminating toxic and dangerous raw materials; and reducing the quantity and toxicity of all emissions and wastes at source during the production process. They can increase productivity and bring financial benefits to the organizations.		
Objective/Output	Target Organization / Group	
<Objectives> To be able to set the plan and goal in order to utilize Cleaner Production method in the production process of industrial material in order to solve the environmental problem, caused by industrialization in developing countries <Outputs> (1)To be able to explain the concept and specific usage method of Cleaner Production techniques. (2)To be able to design or improve equipment to allow the reduction of environmentally-harmful waste products and keep resource and energy usage to a minimum. (3)To be able to keep the release of environmental pollutants and raw material and energy loss associated with equipment trouble to a minimum through improving reliability of equipment, and maintaining efficiency. (4)To be able to create an action plan for the introduction of Cleaner Production techniques.	<Target Organizations> Organizations belonging to the field of process industries such as chemical, petroleum refinery, iron and steel, food and ceramic plant <Target Group> Managers or engineers in the field of process industries	
Contents	Program Period	2012 / 8 / 19 ~ 2012 / 11 / 22
<Preliminary Phase> Preparation of Reports on responsibilities and challenges of participating organization <Core Phase in Japan> (1)Recent situation of global environment, Cleaner Production, TPM, 5S, Kaizen Activity, New QC Seven Tools, PCM, Plant Visit (2)Selection of Equipment, Selection of Motors, Selection of Materials, Corrosion and Protection, Sequence Control, Process Control, Plant Visit (3)Maintenance Management, Maintenance in Actual Plant, Visual Maintenance Management, Diagnosis Technique, Plant Visit (4)Orientation of training course, instruction of making action plan, instruction of presentation, presentation of action plan (5)Report to JICA the progress of knowledge/skills sharing among the respective organization. <Finalization Phase> Review Action Plan(AP) and make a report on its progress.	Implementing Partner	KITA (Kitakyushu International Techno-Cooperative Association)
	JICA Center	JICA Kyushu
	Cooperation Period	2011 ~ 2013
	Remarks and Website	

Adaptation to Climate Change 気候変動への適応	Group Solution	1280066 Continuing
Target Countries : can nominate suitable participant for 3yrs continuously		15 participants
Sector :Environmental Management/Global Warming		
Sub-Sector :		
Language :English		
Appeal		
It focuses on policy making such as international framework and Japan's policy on Adaptation to Climate Change in 1st year, while it focuses on sectoral Adaptation approaches such as forecast of Climate Change, Impact Assessment on Climate Change, Sectoral vulnerability assessment (ex. agriculture, disaster prevention) in 2nd-3rd years.		
Objective/Output		Target Organization / Group
<p><Objective> The system to formulate or revise measures and policies about Adaptation to Climate Change will be strengthened in participant's organization.</p> <p><Outputs> (1)To understand the international framework and trends on adaptation to Climate Change. (2)To understand impact assessment, vulnerability assessment and forecast on Climate Change (3)To understand Japan's policy, Japanese measures, technology and cases on adaptation to Climate Change. (4)To formulate an Action Plan for solving the problems on Adaptation to Climate Change in participant's respective organizations. (5)To share and review the Action Plan(draft of measures and policies about Adaptation to CC) across the participant's respective organization.</p>		<p><Target Organization> a national governmental office which is in charge of policy making of adaptation to Climate Change</p> <p><Target Group> 1st year: a national governmental officer of policy planning of adaptation to Climate Change, preferably from Focal Point of UNFCCC. 2nd and 3rd year: a national governmental officer of implementation of adaptation to Climate Change and who has been cooperating with 1st year's participant organization. Experience in the relevant field: have more than 3 years' experience.</p>
Contents		Program Period
<p>【Preliminary Phase】 • To make Inception Report 【Core Phase in Japan】 • Presentation and discussion on Inception Report (1)~(3) Lectures, discussion, practical exercises and site visits • Overview of UNFCCC and place of adaptation, International framework of adaptation to Climate Change, Trend of international discussion on adaptation to Climate Change • Process of formulation and implementation of measures on adaptation, Observation and forecast of Climate Change, Impact Assessment on Climate Change, Sectoral vulnerability assessment (ex. agriculture, disaster prevention), Japan's policy on Adaptation to Climate Change • JICA's cooperation towards developing countries on Adaptation to Climate Change, Japanese measures, technology and cases on Adaptation to Climate Change, Good practices of developing countries on Adaptation to Climate Change, PCM (Project Cycle Management) workshop (4)Making Action Plan to solve the problems on Adaptation to Climate Change in respective countries 【Finalization Phase】 (5)To make and submit Final Report(within 6 months since returning home country) and discuss draft of measures and policies about Adaptation to Climate Change in related organization</p>		<p>2012 / 9/30 ~ 2012 /10/27</p> <p>Implementing Partner Infrastructure Department Institute</p> <p>JICA Center JICA Tsukuba (Training&Partnership)</p> <p>Cooperation Period 2011 ~ 2013</p> <p>Remarks and Website</p>

Development of Strategies on Climate Change 地球温暖化対策コース		Group Solution	1280572 Continuing
Target Countries :		15 participants	
Sector :Environmental Management/Global Warming			
Sub-Sector :			
Language :English			
Appeal			
This program is designed for governmental officers in charge of climate change issues or national focal point of UNFCCC to propose and make policies (draft) on Climate Change adaptation and GHG emissions.			
Objective/Output		Target Organization / Group	
<p>【Objective】 To make draft plans for greenhouse gas emissions reduction and/or adaptation to Climate Change in participants' respective organizations.</p> <p>【Outputs】 (1)To understand the concept of integration and mainstreaming of Climate Change concerns into sustainable development policies (2)To understand how national communications are prepared as articulated in the UNFCCC Art.12 and other decisions (3)To understand methodologies to prepare a GHG inventory (4)To understand mitigation (including through market mechanisms) and adaptation of Climate Change (5)To share the Action Plan(draft policies on Climate Change Adaptation and GHG emissions), which is drafted in Japan, in the participants' respective organizations.</p>		<p>【Target Organization】 A national (or local) governmental office which is involved in Climate Change issues and/or focal point of UNFCCC</p> <p>【Target Group】 Current Duties : officer of national (or local) governmental office Experience in the relevant field: belong to her/his current department for more than 1 year</p>	
Contents		Program Period	2013/ 1/ 6 ~ 2013/ 3/2
<p>【Preliminary Phase】 • To make an Inception Report</p> <p>【Core Phase in Japan】 • To acquire the necessary skills and techniques on Climate Change issues through 1 Lectures, discussions, practical exercises, site visits, etc. • Relevance between Climate Change and development activities, policy tools to adopt integrated approach, co-benefits approach which achieve GHG emission reductions as well as environmental improvement, the Climate Change regime(including the UNFCCC and the Kyoto Protocol) and guidelines for national communications, and development of GHG inventory including the use of a computer software. • To make and present an Action Plan</p> <p>【Finalization Phase】 • To share and discuss the Action Plan(draft) in the participant's organization, and to propose and make policies (draft) on Climate Change Adaptation and GHG emissions. • To make and submit Final Report (within 6 months since returning home country)</p>		Implementing Partner	Overseas Environmental Cooperation Center (OECC)
		JICA Center	JICA Tsukuba (Training&Partnership)
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Ozone Layer Protection and the Global Warming Countermeasures ~ Measures to Reduce the Controlled Substances of the Montreal Protocol and the Kyoto Protocol ~ オゾン層保護と地球温暖化対策 ~ モントリオール議定書と京都議定書規制対象物質の削減対策 ~		Group Solution	1280937 Continuing
Target Countries : [REDACTED]		6 participants	
Sector :Environmental Management/Global Warming			
Sub-Sector :			
Language :English			
Appeal			
Learn how to convert high global warming gases to lower gases effectively through introduction of Japan's advanced experiences and technologies in order to complete the accelerated HCFC (hydrochlorofluorocarbon) phase-out scheduled under the Montreal Protocol as well as the Kyoto Protocol .			
Objective/Output		Target Organization / Group	
<p>【Objective】 To understand Japan's environmentally friendly technologies in areas such as air conditioning, refrigeration, foam, solvent, recovery and destruction. To seek potential matching to phase out HCFCs under the Montreal Protocol in respective countries.</p> <p>【Expected Results】 Participants will be able to: (1)Examine the recent activities, issues on ozone layer protection and high-GWP gases such as HCFC in respective countries, and make an inception report and present it. (2)To understand applications of Japan's alternative technologies in the air conditioning and the refrigeration sectors and to consider adaptability of those technologies. (3)To understand applications of Japan's alternative technologies in the foam sector and to consider adaptability of those technologies. (4)To understand applications of Japan's alternative technologies in recovery and destruction, a cold chain sectors and consider adaptability of those technologies based on priorities in own countries. (5)To make a presentation for potential selection, introduction and application of Japanese technologies to carry out the HCFC phase-out plan.</p>		<p>【Target Organizations】 Governmental organizations or related public organizations that are in charge of ozone layer protection and high-GWP gases reduction. Representatives from related private sectors.</p> <p>【Target Group】 -Administrative officers who are in charge of ozone layer protection, high-GWP gases reduction, collection and destruction of fluorocarbons and management of the project on multilateral fund of the Montreal Protocol and representative from private sectors -Individuals with sufficient command of spoken and written English in the aforementioned field.</p>	
Contents		Program Period	2013 / 2 ~ 2013 / 3
<ul style="list-style-type: none"> • Presentation on a current situation on high-GWP gases, recent approach and issues against global warming, introduction of on-going and up-coming projects. • Recent trends in discussions at COP (Conference of Parties). • Recent Japan's activities, methods, alternative technologies to convert HCFC. • Introduction of collection and destruction of fluorocarbons in commercial refrigerators and air conditioners. • Introduction of the social and economic system in which each stakeholder can fulfill responsibilities. • Formulation of a draft project plan related to alternative technologies to convert HCFC or collection and destruction of fluorocarbons based on the knowledge and experiences gained through the training course. • Report of activities after returning to home country to monitor how participants would apply the knowledge obtained through the training course to domestic policies. 		Implementing Partner	Ministry of Economy, Trade and Industry, Ministry of Environment
		JICA Center	JICA Tokyo(Industrial Dev.&Finance)
		Cooperation Period	2010 ~ 2012
		Remarks and Website	Training period is subject to change

Mitigation of Climate Change in the Southeast Asia and Oceania Region 東南アジア・大洋州地域 地球温暖化緩和対策		Region-Focused Solution	1284088 Continuing
Target Countries : Southeast Asia and Oceania Region		13 participants	
Sector :Environmental Management/Global Warming			
Sub-Sector :			
Language :English			
Appeal			
To strengthen capacity of participant's organization to develop, implement and evaluate domestic mitigation to address Climate Change in a measureable, reportable, and verifiable (MRV) manner under Nationally Appropriate Mitigation Actions (NAMAs) for a national (or local) governmental office which is involved in Climate Change mitigation, preferably Focal Point of UNFCCC			
Objective/Output		Target Organization / Group	
<p>【Objective】 To strengthen capacity of participant's organization to develop, implement and evaluate domestic mitigation to address Climate Change in a measureable, reportable, and verifiable (MRV) manner under Nationally Appropriate Mitigation Actions (NAMAs).</p> <p>【Outputs】 (1)To identify policy and technical challenges for domestic mitigation actions (2)To understand the framework of NAMAs for mitigation actions in a measurable, reportable, and verifiable (MRV) manner, such as in the UNFCCC. (3)To make draft plan on NAMAs. (4)To make an Action Plan(draft of NAMAs in an MRV manner) for tackling mitigation of Climate Change through elaborating strategies to mobilize and introduce mitigation technologies, which are suitable in local conditions.</p>		<p>【Target Organization】 A national (or local) governmental office which is involved in Climate Change mitigation, such as Focal Point of UNFCCC etc.</p> <p>【Target Group】 Current Duties: officer in charge of Climate Change mitigation (Preferably an officer especially in charge of GHG inventories)</p> <p>Experience in the relevant field: have more than 3 years</p>	
Contents		Program Period	2012 / 8 / 12 ~ 2012 / 9 / 15
<p>【Preliminary Phase】 • To make Inception Report</p> <p>【Core Phase in Japan】 • To make a presentation of Inception Report and discussion • Lectures and practical exercises -Administrative frameworks and policy tools for mitigation measures -International framework after Bali Action Plan of COP13, and its implication on domestic mitigation actions. -Collective and individual guidance given for developing Climate Change draft action plans, which may include NAMAs. -Quantitative evaluation methodologies for Climate Change action plan (eg. GHG reduction), Role of GHG inventory • To make and present an Action Plan</p> <p>【Finalization Phase】 • To share and discuss the Action Plan(draft of NAMAs in an MRV manner) in the participant's organization • To make and submit Final Report (within 6 months since returning home country)</p>		Implementing Partner	Overseas Environmental Cooperation Center (OECC)
		JICA Center	JICA Tsukuba (Training&Partnership)
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Capacity Development for NAMA/MRV NAMA/MRV能力強化		Region-Focused Trainers	1284349 New
Target Countries : Asia and Africa		10 participants	
Sector :Environmental Management/Global Warming			
Sub-Sector :			
Language :English			
Appeal			
In the national negotiation on climate change, it is agreed to encourage developing countries to develop Nationally Appropriate Mitigation Actions (NAMA) in order to enhance their voluntary actions for tackling with the climate change in a measurable, reportable and verifiable (MRV) manner. This training program aims to improve integrated planning capacity of NAMA in participating countries through understanding international trend for the reduction of greenhouse gases, practical policies and measures at national and local levels, and the measurement methods of the effects achieved thereby. Through this training, it is expected that national and sub-national governments identify applicable policies and priority areas, reflect that in national policies and city plans, and start implementing actual projects.			
Objective/Output		Target Organization / Group	
<p>【Program Objective】 The ability of governmental officers in charge of mitigation actions for climate change will be improved for planning Nationally Appropriate Mitigation Actions through acquiring knowledge and technologies about the field as well as sharing examples of neighboring countries that have the same problems.</p> <p>【Expected Module Output】 <Preliminary Phase> 1. Country Report is prepared <Core Phase in Japan> Participants will be able to; 2. to explain about international trend in climate change. 3. to explain about NAMA and MRV 4. to explain about REDD and REDD+ 5. to explain mitigation policies by the Government of Japan 6. to explain about mitigation actions in the local government in Japan. 7. to explain about mitigation actions in corporations in Japan 8. to formulate a basic action plan. <Finalization Phase> 9. Participants will share and improve Action Plan in the participants organizations.</p>		<p>Organization: Departments in charge of mitigation actions for climate change or city planning in national and sub-national governments Current Duties: Officers in charge of development of climate mitigation plans or city plans, or supervisors of them Experience: More than 3-year experience in above-mentioned works Others: - be under 50 years old - be fluent in English</p>	
Contents		Program Period	under planning
1. Preparation of a Country Report on overview and challenges on applying NAMA/MRV. 2. Framework Convention on Climate Change, Kyoto Protocol, Cancun Agreements and its background, Outputs of COP17 3. Overview of NAMA/MRV, Current situation and challenges in mitigation actions in the target region, Strategies on low-carbon development, CDM in the target region, Bilateral Offset Credit Mechanism proposed by Japan 4. Definition, background, history, international and national activities, way forward on REDD and REDD+ 5. Law concerning the promotion of the measures to Cope with global warming, Law regarding the rationalization of energy use, domestic carbon credit system, Low carbon city development guideline 6. Mitigation actions in the local government (promotion of renewable energy and energy saving, traffic management, management of solid waste and wastewater, green belt management), International cooperation activities by local governments on MRV development 7. Mitigation actions in the Japanese corporations (promotion of renewable energy and energy saving) 8. Action plan formulation and discussions 9. To share, improve, implement Action Plan in the participants' organizations, to make and submit Final Report to report the present progress of Action Plan to the respective country s JICA office.		Implementing Partner	Under Planning
		JICA Center	JICA Kansai () /JICA Kyushu
		Cooperation Period	2012 ~ 2014
		Remarks and Website	The first implementation: Asian countries The second implementation: African countries

Environmental City Planning through Community Participation 住民協働による環境都市づくり		Group Solution	1280007 Continuing
Target Countries :		7 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :			
Language :English			
Appeal			
This course intends to provide know-hows of Minamata City on pollution control, waste management, and environmental education to formulate environmental city planning through community participation. It will be highly effective, if a country aims to develop waste management or promote environmental protection within a community.			
Objective/Output		Target Organization / Group	
<p>[Objective] Participants will be able to formulate and propose action plans to improve environment through community participation.</p> <p>[Output] (1)Being able to explain how serious, how difficult to overcome, and how important to prevent pollution damages through learning experiences of Minamata City and Japan. (2)Being able to explain approaches towards sustainable society through collaboration with residents, enterprises, and governments, following Minamata City as a model. (3)Being able to explain how local governments promote environmental mind, and how they collaborate with community to conduct environmental education. (4)Being able to explain environmental policies in corresponding governorates. (5)Action plan is formulated, and its implementation is reported through final report.</p>		Government officers directly engaged in environmental policy making at local or central government, or NGO staffs working on environmental management, who are strongly interested in environmental administration based on community participation	
Contents		Program Period	2012 / 9 / 23 ~ 2012 / 10 / 27
Participants will learn followings through lectures, site visits, and practices: (1)Overview of Minamata City as Eco Model City (2)Lessons from pollution (3)The municipal waste administration (Promotion of 3R etc.) (4)Preservation and treatment of natural resources (5)Coexistence of environment and economy (6)Environmentally-friendly lives and activities (7)Practices in environmental education and activities (8)Enlightenment of environment to communities (9)National/prefectural policies (10)Local governmental policies (11)Formulation and presentation of action plan (12)Formulation of final report		Implementing Partner	Minamata City Government
		JICA Center	JICA Kyushu
		Cooperation Period	2010 ~ 2012
		Remarks and Website	

Chemical Management Policy - Reflecting International Discussion - 国際的な化学物質管理に対する国内制度の対応		Group Solution	1280026 Continuing
Target Countries : [REDACTED]		10 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :			
Language :English			
Appeal			
1. Understanding demands in the international community and learning major countries' responses 【Key words: the WSSD target, POPs, PIC, the Chemical Substances Control Law】			
2. Learning chemical management method in private sector and government's promotions in Japan 【Key words: responsible-care, supply-chain, article management promotion】			
3. Formulating an action plan to be reflected on a national policy and its evaluation.			
Objective/Output		Target Organization / Group	
<Course Objective> To understand the latest movement of an international chemical regulatory/management system and to formulate an Action Plan with an aim to reflect required knowledge on domestic management system that should consequently be taken into an organizational consideration.		<Target Organization> Authorities which are responsible for planning national chemical management policy in the central government.	
<Objective for each unit> 【1】 (Prior activities) Analyzing and presenting current situation of chemical management policy. 【2】 Learning basic idea and identifying problems of chemical management and being able to make comparison between own country and the world. 【3】 Learning international movements and actions, and identifying actions expected to be taken in own country. 【4】 Identifying required actions for industry sectors in each country in a globalized environment. Being able to explain expected actions based on the knowledge obtained from lectures as well as site visits. 【5】 Identifying issues and problems in domestic chemical management system and forging solution plans. 【6】 (Follow-up activities) Reviewing the proposed solutions in each country.		<Expected Job Title> Administrative officials who are in charge of planning and executing chemical management system in the central government. <Expected Job Experience> Officials who have experiences in chemical management for five years or longer. <Other Qualifications> Possess enough English language skill in the specialized field.	
Contents		Program Period	2012 / 11 ~ 2012 / 11
- Classifying chemical management policy and extracting problems in each country, raising awareness towards issues and making a presentation. - Outline of chemical management system - Chemical management system in Japan (focusing on the 2009 amendment of the Chemical Substances Control Law) - Chemical management systems in major countries (US and EU) - International discussion/actions on chemical management e.g.: Stockholm Convention on Persistent Organic Pollutants, Rotterdam Convention on the Prior Informed Consent, Globally Harmonized System of Classification and Labeling of Chemicals (GHS) - Responsible-care activities in industry sectors in Japan - Article management promotion by circulating chemical components information through supply-chain - Site visits - Formulation, presentation and evaluation of an action plan - Examining the proposed action plan within organization		Implementing Partner	Chemical management policy division, METI
		JICA Center	JICA Tokyo(Industrial Dev.&Finance)
		Cooperation Period	2011 ~ 2013
		Remarks and Website	

Workshop on Administration of Environmental and Social Consideration Process for Implementation of a Japanese ODA Loan Project 円借款事業における環境社会配慮実務		Group Leaders	1280106 Continuing
Target Countries : countries requested and preparing for Japan's ODA Loan project		20 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :			
Language :English			
Appeal			
2 weeks' intensive course with lectures, exercises and site visits for the officers in charge of Environmental and Social Consideration (ESC) in Japan's ODA loan projects. JICA experts and officers of JICA Headquarters will be directly involved in making curriculum and provide lectures. The importance of this training becomes higher along with the enforcement of JICA Guidelines for Environmental and Social Considerations on April 2010.			
Objective/Output		Target Organization / Group	
<p>【Objective】 This course aims at enhancing the capability of the officers in charge of Environmental and Social Considerations (ESC;e.g. preparation of EIA, SEA, and/or RAP, implementation of environmental and social mitigation measures, and monitoring activity) to implement appropriate ESC and helping them to acquire the requirements for implementation of a Japan's ODA Loan project</p> <p>【Expected Result】 (1) To be able to explain the necessity of adequate ESC referring to lessons from experience of ODA projects (2) To be able to explain outline of guidelines of ESC required for a Japan's ODA loan project (3) To understand the fundamental ideas of ESC and to be able to explain their proper procedure of environmental and social consideration and technical points for their implementation (4) To identify and raise the issues and measures to promote proper ESC in their countries</p>		<p>【Target Organizations】 (1) Implementing body of a Japan's ODA Loan Project (or a proposed project), which requires ESC (2) the implementation body of the EIA</p> <p>【Target group】 <Title> Director, assistant director or equivalent <Experience> More than five years' experience in the EIA field such as in the divisions in charge of ESC or EIA <Other> Countries which has requested and is preparing for Japan's ODA Loan Project</p>	
Contents		Program Period	2012/ 6/17 ~ 2012/ 6/30
[Preliminary Phase] Formulation of Inception Report		Implementing Partner	Overseas Environmental Cooperation Center etc.
[Core Phase] (1) Experience of environmental and social consideration for ODA projects and its lessons, large scale development project in Japan, Cost-benefit analysis in conducting ESC		JICA Center	JICA Tokyo(Economy&Env.)
(2) Outlines of JICA Guidelines for Environmental and Social Considerations, Case study on Japanese ODA projects		Cooperation Period	2011 ~ 2013
(3) Overviews of ESC, EIA Process exercise (Screening, Scoping, Mitigation, Public Hearing & Transparency /Accountability, Monitoring & Follow-up)		Remarks and Website	
(4) Country Report Presentation, Case Study, Environmental Assessment law in Japan,			

Environmental Education 環境教育	Group Trainers	1280258 New
Target Countries :		15 participants
Sector :Environmental Management/Environmental Administration		
Sub-Sector :		
Language :English		
Appeal		
This training program intends to transfer methodologies, systems and roles of the government and other stakeholders in environmental education for 3R promotion. City of Kitakyushu, one of main implementing partners, owns rich experience both domestically and internationally, so participants will be able to enhance practical knowledge and technique in the field.		
Objective/Output		Target Organization / Group
<p>[Objective] Being able to formulate and propose action plan for improvement of environmental awareness, utilizing contents of the training program.</p> <p>[Objective for Each Unit] (1)Be able to explain about overview of national/local policies on environmental education. (2)Be able to explain about strategies and contents of environmental education, according to development stages. (3)Be able to explain about environmental education through local resources. (4)Be able to explain about environmental conservation activities by private enterprises. (5)Be able to formulate an action plan for environmental awareness raising.</p>		<p>[Target Organization] Governmental (central or local) organizations in charge of environmental education</p> <p>[Target Group] (1)Be staffs in charge of environmental pollution control (2)Occupational experience of more than 3 years in the area (3)Be under 50 years old</p>
Contents		Program Period
<p>[Preliminary Phase] Preparation of a report on overview and challenges on environmental education</p> <p>[Core Phase in Japan (lecture, practice and/or field study)] (1)Pollution control and environmental education in Japan, Policies and activities of environmental education in Kitakyushu City, Economical development and conservation of natural resources (2)Strategies and facilities for environmental education, Development of curriculum and contents (3)Activities of community centers, women's associations, and volunteers, Projects and events for environmental education (4)Environmental education for staffs, CSR and environmental conservation, Development of environmental facilities (5)Action plan formulation and discussions</p> <p>[Finalization Phase] Formulation and submission of reports to present progress of action plans</p>		<p>Implementing Partner Under Planning</p> <p>JICA Center JICA Kyushu</p> <p>Cooperation Period 2012 ~ 2014</p> <p>Remarks and Website</p>

Conservation and Management of Water Environment in Island Countries 島嶼水環境の保全と管理		Group Leaders	1280267 New
Target Countries : Island countries or Countries have island area		10 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :Nature Conservation/Sustainable Use of Natural Resources			
Language :English			
Appeal			
This course is for central/local government or NGO officers to gain necessary knowledge and skills on conservation and management of water environment, that is the basis of nature, culture and industries etc. through the case studies in typical 7 islands in Okinawa. Concretely, this course will provide how to cope with the management of land areas, as an axis to water environment management			
Objective/Output		Target Organization / Group	
<p>【Objective】 Participants acquires knowledge and techniques for the conservation and management of water environment.</p> <p>【Objective for each unit】 Current situation and the issues on the water environment reservation is sorted out. Participants become able to plan measures and programs for water environment conservation in their countries or regions Practicable action plan for the issues is drawn up (In participants' home countries) Knowledge, techniques and action plan developed in Japan are shared in their organizations</p>		<p>[Target Organization] Working in central/local government or public organizations in charge of water environment conservation, or NGOs tackling with water environment conservation in cooperation with governmental/public organizations and communities.</p> <p>[Target Group] (1) More than 3 years of experience in present post or relevant job. (2) University graduate or equivalent. (3) Have a good command of English in speaking, listening and writing. (4) Healthy in both physically and mentally (As this course includes field works, pregnancy is regarded as a disqualification). (5) Not be served in military.</p>	
Contents		Program Period	2013/ 1/ 9 ~ 2013/ 3/9
<p><Activity in Preliminary Phase in home country> Collecting relevant information, preparing country report</p> <p><Program in Japan> (Discussion) Country Report presentation (Lectures) Ecosystems and nature conservation in island countries, Outline and management of water resources, conservation of coral reefs and mangroves etc. (Practice) Field survey in mangroves, seashores etc. (Lecture) Legal system for water environment, Measures to conserve water quality, Regulations for preventing red-clay erosion, Solid Waste Management, Environmental assessment, Environmental education and public awareness, Rolls of the stakeholders, Human resources development etc. (Practice) Various research method, Environmental workshop etc. (Practice) PCM method, Case study on typical islands in Okinawa (Discussion) Action Plan presentation</p> <p><Post program activities in home country> Presentation of the fruits gained in Japan, Efforts for action plan to be authorized</p>		Implementing Partner	Under Planning
		JICA Center	JICA Okinawa
		Cooperation Period	2012 ~ 2014
		Remarks and Website	

Environmental Impact Assessment in ODA Projects (EIA as a Tool for Sustainable Development) ODAにおける環境影響評価(持続可能な開発のための環境アセスメント研修)		Group Trainers	1280936 Continuing
Target Countries : ODA target countries		18 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :			
Language :English			
Appeal			
Conduct training course dealing with the system and the case examples of Environmental Impact Assessment (EIA) in Japan and environmental considerations required in ODA project.			
Objective/Output		Target Organization / Group	
<p>[Objective] This program is designed for examining authorities of Environment Impact Assessment (EIA) and implementing bodies of large-scale development projects which require EIA in National / Local Government or other relevant organizations.</p> <p>[Expected Result]</p> <p>(1) To be able to explain the basic concepts of EIA, necessary procedures and the difference in the EIA systems between Japan and their own country and to be able to understand the efforts of international aid agencies for environmental considerations and to explain the requirements expected in the development projects</p> <p>(2) To be able to explain necessary points of the EIA examination and necessary technical methods to conduct EIA</p> <p>(3) To be able to explain a process to conduct EIA smoothly and communication methods with residents etc.</p>		<p><Target Organization> Examining authorities of EIA and implementing bodies of large-scale development projects which require EIA in National / Local Government or other relevant organizations</p> <p><Nominee Qualification> 1) technical administrative officers in charge of EIA and/or planning and implementation of large-scale development projects and ODA projects. 2) have basic knowledge and more than three years of working experience in EIA. 3) under 45 years of age. Be university graduate, or have equivalent background in the field.</p>	
Contents		Program Period	2012 / 9 / 2 ~ 2012 / 9 / 29
[Preliminary Phase] Submission of Inception Report and Questionnaire		Implementing Partner	VSOC
[Core Phase]		JICA Center	JICA Tokyo(Economy&Env.)
-Purpose and concept of EIA and the EIA system in Japan.		Cooperation Period	2010 ~ 2012
-The outline of ODA and the safeguard policy of the international donors including JICA.		Remarks and Website	
-The policy of the baseline survey, prediction, and assessment for EIA.			
-The methodology of survey, prediction, evaluation and the mitigation measures in examples of Japan's EIA.			
-Examination system of EIA in Japan, key points of examination (how to check EIA report), case studies.			
-Process and communication methods required for EIA etc.			
[Finalization Phase]			
Development of a plan to conduct EIA based on specific development projects (exercise), Discussion on the improvements of the above plan and points of the examination, Discussions on the improvement of the EIA system in their own countries			

Mega-City Environmental Policy and Environmental Management System 大都市地域環境政策・環境マネジメントシステム		Group Solution	1280992 Continuing
Target Countries : With the mega-cities with more than 1 million people		10 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :			
Language :English			
Appeal			
This training program is designed so that the participants understand the importance of environmental problems in mega-cities and improve their capacity for formulating environmental policies/plans for solving the problems.			
Objective/Output		Target Organization / Group	
<p>Program objective: Ability of participants will be improved for development and implementation of environmental management plans taking into account specific local pollution problems and global environmental problems.</p> <p>Expected Module Output: (Preliminary Phase)0.Country Reports are prepared in participants' home countries. (Core Phase) 1.Environmental problems are shared among participants by the presentation of Country Reports./ 2.Priority issues of participating organization will be identified through lectures about history and case study of environmental problems in Japan/Osaka and also through discussion among participants./ 3.Participants will learn the methodologies for development of environmental management plans at the both levels of specific pollution control measures and cross cutting environmental issues./ 4.Participants will understand Environmental Management System./ 5.Action Plans will be prepared.</p> <p>(Finalization phase) 6. Action Plans will be shared and examined in participating organization.</p>		<p>- Technical, planning and management officers in the relevant field such as environmental management and urban living for a specific mega-city, who are working at central and local governments or public institutions.</p> <p>-Two persons per year, totally six persons for this three year training program from each participating country. (Example: One city government official working on waste management and another working on air pollution control in the same city)</p> <p>- at least 5 years' experience of environmental management, 25-45 of age</p>	
Contents		Program Period	2012 / 5/21 ~ 2012 / 7/13
<p>-Preparation and presentation of Country Report -History and Experience for Pollution in Osaka City and Japan (Air Pollution from stationary source, Automobile pollution, Water Environment, and Solid Waste): History of Environmental Administration of Japan, Experience of Osaka City in Urban Environmental Management, Environmental Issues and Socio-Economic System in Developing Countries -Institutional Frameworks, Environmental Education, etc. : Biodiesel Fuel System by Local Government, Japanese Eco-town policy and visit to Osaka Eco-town site, Nature Conservation Area -Planning for environmental management plan (specific pollution control measures and cross cutting environmental issues): Environmental management plan of Osaka City (Environment Law and Ordinances), Countermeasures for Environmental Pollution in Mid and Small-Sized enterprise, Motor Vehicle Pollution Control in Osaka City -Environmental Management System in Japanese Enterprises: EMS (ISO14001) in Japanese Enterprises -Action Plan preparation, presentation, discussion, sharing and improvement of Action Plan in the participating organization, submission of Follow-up Report describing progress of Action Plan</p>		Implementing Partner	Global Environment Centre Foundation
		JICA Center	JICA Kansai ()
		Cooperation Period	2010 ~ 2012
		Remarks and Website	Global Environment Centre Foundation Website: http://gec.jp/

Industrial Pollution Control Management 産業環境対策	Region-Focused Solution	1284021 Continuing
Target Countries : Asia, Latin America and Europe	10 participants	
Sector :Environmental Management/Environmental Administration		
Sub-Sector :		
Language :English		
Appeal		
The participants can learn about environmental technologies and measures through pollution controls, and the roles of the government, research organs and firms through abundant cases.		
Objective/Output	Target Organization / Group	
<p><Course Objective> Government departments in charge of industrial environmental management will draw up improvement measures for the environmental problems which each country faces.</p> <p><Objective for each unit> 1. To master air pollution control administration and pollution control technique, and propose a solution for the issue. 2. To master water pollution control administration and pollution control technique, and propose a solution for the issue. 3. To master waste disposal administration and recycling technique, and propose a solution for the issue 4. To master environment improvement technique, and propose a practical action plan for the department to which participants belong</p>	<p><Target Organization>Departments of the government / municipal offices in charge of industrial environmental management</p> <p><Expected Job Title>administrative officers in charge of industrial environmental management in the government / municipal offices</p> <p><Expected Job Experience>more than 5 years of occupational experience in the field of environmental management</p> <p><Other Qualifications>be a university graduate, majoring in engineering, or the equivalent</p>	
Contents	Program Period	2013 / 1 / 16 ~ 2013 / 4 / 27
<p><Preliminary Phase> Preparation of Reports on responsibilities and challenges of participating organization</p> <p><Core Phase in Japan> This phase consists of the following components. 1. Air pollution Control: Administration, Dust collection, Exhaust gas treatment, Environmental measures of city gas industry, Environmental pollution control measures of chemical industry etc. 2. Water pollution Control: Administration, Sewage treatment plant, Environmental facility engineering, Water quality monitoring, Treatment technology of industrial wastewater and sewage, Construction, operation and maintenance of Johkaso system for treatment of domestic waste water etc. 3. Solid Waste Disposal: Incineration of municipal solid waste, Industrial waste administration, Waste recycling business (Eco-town), Inland reclamation disposal, Compost etc. 4. Environment Improve Technique: EIA, Environmental education, Role for governments, Environmental regulation in Japan, Cleaner Production, Formulation & Presentation of Job Report & Action Plan etc.</p> <p><Finalization Phase> Review Action Plan(AP) and make a report on its progress.</p>	Implementing Partner	Kitakyushu International Techno-cooperative Association (KITA)
	JICA Center	JICA Kyushu
	Cooperation Period	2011 ~ 2013
	Remarks and Website	

Environmental Technology for Low-Carbon Society 低炭素化のための環境技術		Region-Focused Solution	1284316 Continuing
Target Countries : Asian Countries		13 participants	
Sector :Environmental Management/Environmental Administration			
Sub-Sector :Urban/Regional Development/Other Urban and Regional Development Issues			
Language :English			
Appeal			
This program intends to promote transfer of environmental technologies, such as energy conservation, resource saving, and cleaner production, in addition to social technologies like 3R promotion and environmental education. Participants will have wide opportunities to observe related activities and technologies through observations & events held during the training period.			
Objective/Output		Target Organization / Group	
<p>[Objective] Participants will be able to formulate & propose action plans to introduce Low-carbonization systems & techniques, utilizing the program.</p> <p>[Objective for Each Unit] (1)Being able to explain about global environmental issues and challenges towards low-carbonization. (2)Being able to explain about overview of national/local environmental policies in Japan. (3)Being able to explain environmental/social technologies applicable in each country. (4)Being able to formulate & propose Action Plan to introduce environmental/social technologies to each country.</p>		<p>[Target Group] (1)Staffs of department of city planning or industries in the local government, which are in charge of promotion of environmental technologies. (2)Occupational experience of more than 5 years in the area (3)Be under 50 years of age</p>	
Contents		Program Period	2012 / 9/23 ~ 2012 /10/25
Participants will learn following contents through lectures, site visits, discussions and presentations. (1)Global environmental systems and international framework, Developing countries and challenges for global warming (2)Pollution control in Japan, Environmental administration in Kitakyushu City (3)Kitakyushu Asian Center for Low Carbon Society project, Energy / resource saving technologies, Cleaner production, City planning, Awareness raising (4)Action Plan formulation & presentation, submitting progress report		Implementing Partner	Kitakyushu International Techno-cooperative Association
		JICA Center	JICA Kyushu
		Cooperation Period	2011 ~ 2013
		Remarks and Website	

Effluent Pollution Control Caused by Mining and Manufacturing Industries for Central and South America 中南米地域鉱工業による廃水汚染対策		Region-Focused Solution	1284246 Continuing
Target Countries : Central and South America		20 participants	
Sector :Environmental Management/Mine Pollution			
Sub-Sector :			
Language :Spanish			
Appeal			
Participating countries will consider effective measures to reduce or prevent environmental destruction by effluent from mining and manufacturing.			
Objective/Output		Target Organization / Group	
<p>[Program Objective]Effective and tangible action plan to prevent environmental destruction by hazardous substances included in effluent from mining and manufacturing industries will be formulated with close coordination among the related organizations that take charge of the control of the effluent regulation.</p> <p>[Expected Module Output] Preparatory Phase 1) Problems and issues of effluents from mining and manufacturing industries are clarified. (Phase in Japan) 2) Problems and issues in participating countries will be sorted out. 3) Problems and issues of wastewater pollution countermeasures will be identified thorough the case studies of mining pollution and comparison of the regulations/policies of Japan and participating countries. 4) Draft action plan as a team will be prepared. 5) International common perception of the problem of waste effluent pollution will be developed. (Finalization Phase) 6) The action plan as organizations will be considered.</p>		<p>- Central government ministries and local government offices responsible for monitoring the wastewater discharge through mining and industrial activities.</p> <p>-A team must consist of three persons belonging to different ministries and/or municipalities</p> <p>-Each team must include at least one official administrator and/or an engineer.</p> <p>-If a team consists of fewer than three persons and/or people of these same organizations, that team will be disqualified from selection.</p> <p>- Experience: 5 years, Age: under 50</p>	
Contents		Program Period	2012 / 11 / 12 ~ 2012 / 12 / 15
<p>- Preparation of country reports.</p> <p>- Institution and policy: environmental administration in Japan (central and local government), mining and mine pollution in Japan, Mine Safety Act, Measures for hazardous metal, countermeasures and compensation issue of pollution-related diseases.</p> <p>- Case study: Prevention of health damage by factory effluent (Minamata disease), inorganic and organic wastewater treatment.</p> <p>- Action Plan preparation, presentation, discussion, sharing and improvement of Action Plan in the participating organization, submission of Follow-up Report describing progress of Action Plan.</p>		Implementing Partner	Global Environment Centre Foundation
		JICA Center	JICA Kansai ()
		Cooperation Period	2010 ~ 2012
		Remarks and Website	Global Environment Centre Foundation Website: http://gec.jp/