



18. Environmental Management

Domestic Waste Water Treatment Techniques 生活排水対策		GROUP 	0980006
		Environmental Management—Water Pollution	
		10 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The objective of this program is to make feasible action plans to solve or improve wastewater problems for which the participant is responsible through learning about Japanese wastewater treatment techniques and policies. To reach the objective, participants are expected to achieve the following: (1) To understand waste water treatment management in central/local government in Japan, and understand the problems in own country (2) To acquire a basic understanding of the knowledge and technologies related to waste water treatment systems for sewerage, and be able to evaluate technologies that can be applied in your own country (3) To learn methods for measuring the degree of environmental pollution and methods for managing pollution, and be able to explain them (4) To comprehend the ideal form of effective waste water treatment technologies in terms of water resource and river pollution treatment policies from the point of view of water recycling and the water cycle (5) To propose sewerage management plans	[Target Organizations] Central/local government [Target Group] Technical administrators in the field of domestic wastewater treatment in central or local governments		
CONTENTS	PROGRAM PERIOD	Aug.24.2009 ~ Dec.12.2009	
All topics consist of lectures, practice, and exercises (1) Introduction to municipal administration, Introduction to water quality preservation (2) Wastewater treatment technique, Treatment technique for human waste, Low-cost septic tank technology, Solid waste management (3) Monitoring method for toxic chemicals, Leachate treatment technique (4) Administration for water quality, Monitoring method for water pollution, Recycling technology of polluted mud (5) Job report, Action plan, Final Report	IMPLEMENTING PARTNER	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2005~2009	
	REMARKS	1) A problem analysis sheet is used to help identify the participants' problems in their countries. 2) The curriculum focuses on low-cost domestic wastewater treatment methods such as septic tanks.	

Environmental Administration with Community Participation 住民との協働による環境都市づくり		GROUP 	0980007
		Environmental Management—Environmental Administration	
		9 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
This program is designed to enable participants to improve their abilities to prevent environmental pollution undergoing rapid industrialization through lessons learned from Minamata's experience, and to utilize know-how of mobilizing local communities in the environmental conservation policies of participants' countries. 1) Through understanding what Japan and Minamata City have experienced, be able to understand the seriousness of pollution damage and the difficulty of restoring the natural environment. 2) Through observation of Minamata City activities, understand the specific arrangements of the creation of a recycling-oriented society in Japan that involves the residents, the private companies, local governments and the state. 3) Understand the arrangements of environmental education conducted in concert with local residents. 4) Propose a basic strategy for environmental improving activities with community participants in your own country.	(1) Program officers at central or local government engaged in environmental policy-making (2) NGO personnel working on environmental conservation * Participants are expected to have experience or a strong interest in formulating and implementing projects based on community participation		
CONTENTS	PROGRAM PERIOD	Sep.27.2009 ~ Nov.7.2009	
The program consists of lectures, practical exercises, discussions, observation and communication with local residents, covering the following themes: (1) Causes of "Minamata Disease" and its mechanism, Physical and mental injury by Minamata disease and its deleterious effects on local communities (2) Environmental policies and administration of the nation, prefecture and Minamata disease (3) Efforts made by Minamata City government and local residents toward environmental conservation (classification of wastes, activities relating to ISO14001), Communication with patients of Minamata disease, their families and citizens (4) Job report, Action Plan	IMPLEMENTING PARTNER	MINAMATA CITY GOVERNMENT	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2005~2009	
	REMARKS	Participation of countries which face the hazard of environmental pollution is preferable. At least 2 candidates are required per country.	

Formulation of Environmental Standards and Regulations 環境汚染基準・規制策定手法		GROUP	0980053
		Environmental Management—Environmental Administration	
		10 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The purpose of the training course is to enhance the ability of policymaking especially for environmental policy or regulations based on the environmental monitoring data. For this purpose, we set up 4 objectives: (1) To understand the meanings of the environmental indicators (2) To acquire the ability to formulate the environmental standards based on the environmental monitoring data (3) To acquire the ability to formulate the environmental regulations based on the environmental monitoring data (4) To acquire the ability to plan countermeasures against pollution based on the environmental regulations	【Target Organizations】 Policy making sections about environmental issues in central / local governments 【Target Group】 Policymakers of the environmental policies or regulations		
CONTENTS	PROGRAM PERIOD	Feb.1.2010 ~ Feb.28.2010	
1) Meaning of environmental indicator (BOD, COD, NO _x , SO _x , etc.) 2) Environmental monitoring method 3) Formulating the environmental standards based on the environmental monitoring data in participating countries 4) Formulating the environmental standards	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2007~2009	
	REMARKS		

Waste management Technique and Environmental Education 廃棄物管理技術と環境教育		GROUP	0980100
		Environmental Management—Urban Solid Wastes	
		7 participants ★ /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
This course is designed for technical officials in developing countries, who are in charge of solid waste management in national/local government to enhance their capabilities for effective and proper planning and implementation of solid waste management. 1) To clarify the issues and causes of solid waste management in own countries. 2) To understand the historical process of environmental policy and waste management system in Japan. 3) To understand the techniques and measures adapted in each process of solid waste management (collection and transportation, intermediate treatment, final disposal) in Japan. 4) To understand the techniques and measures of final disposal site in Japan. 5) To understand the importance and concrete methods of environmental education/awareness for solid waste management 6) To propose basic policy towards proper waste management in own countries.	Department which deals with solid waste management in national/local government		
CONTENTS	PROGRAM PERIOD	Jun.22.2009 ~ Sep.11.2009	
1) •Issue analysis-workshop and interim discussion 2) •Countermeasure for environment in Kitakyushu city •Solid waste management administration and environment impact assessment 3) •Flow of general waste •Compost from kitchen garbage •Incineration and hazardous waste treatment 4) •Regulation and structure of final disposal site •Good example of final disposal site in Samoa 5) •Environmental education administration in Kitakyushu •NGO activity in local area 6) •Project Cycle Management •Action Plan	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2008~2010	
	REMARKS	The course will be conducted twice in fiscal year 2009: Jun.22.2009 - Sep.11.2009 and Feb.1.2010 - May.1.2010.	

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	0980106
Environmental Management—Other Environmental Management Issues			
Target Countries: Countries which have an on-going or a proposed Japanese ODA Loan Project		18 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objectives】 The participants are expected to work for qualitative improvement of the EIA in their countries and to implement the environmental and social considerations required to Japanese ODA Loan. 【Outputs】 (1) To be able to explain necessity of adequate environmental and social considerations referring to lessons from experience of ODA projects (2) To be able to explain outline of guidelines of environmental and social considerations required for a Japan's ODA loan project (3) To understand the fundamental ideas of EIA and to be able to explain their proper procedure of environmental and social consideration and technical points for their implementation. (4) To identify the issues and measures to promote proper EIA in their countries	【Target Organizations】 (1) Implementation body of a Japan's ODA Loan Project (or a proposed project), which requires environmental and social consideration in accordance and (2) the implementation body of the EIA 【Target group】 <Job title> Director, assistant director or equivalent <Experience> More than five years experience in the EIA field such as in the divisions in charge of environmental and social consideration or EIA <Other> Countries and organizations in which the Japan's ODA Loan project will be implemented		
CONTENTS	PROGRAM PERIOD	May.24.2009 ~ Jun.6.2009	
(1)– Lecture & Discussion: Experience of environmental and social consideration for ODA projects and its lessons –Lecture: lessons and learns of large scale development project in Japan –Lecture: Project economic analysis of a project and environmental and social consideration (2)– Lecture: Environment and Social Consideration of JICA (3)–Lecture: Overviews of EIA –Lecture: Social Environmental Assessment – Lecture: – Group work: EIA Process (Screening, Scooping, Mitigation, Public Hearing & Transparency /Accountability, Monitoring & Follow-up) (4)–Presentation: Country Report, Case Study –Lecture: Environmental Assessment law in Japan(Comparative study) –Report writing: on findings through the program	IMPLEMENTING PARTNER	Japan International Cooperation Agency (JICA)	
	JICA CENTER	JICA Tokyo	
	COOPERATION PERIOD	2008~2010	
	REMARKS		

Pollution Control for Hazardous Substances in the Environment 環境中の有害汚染物質対策		GROUP	0980224
Environmental Management—Other Environmental Management Issues			
Target Countries: Algeria, Philippines, Viet Nam, El Salvador, Macedonia, Jordan		6 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<Objective> Participants will acquire the abilities to evaluate from emission sources on the environment pollution control, and formulate measures to prevent pollution due to hazardous substances. <Outputs> (1) Understand recent conditions and history of pollution caused by hazardous substances, including Minamata disease, etc. caused by metal containments. (2) Understand the effects on human health resulting from metal contaminants and other hazardous substances. (3) Understand local government's pollution controls for hazardous substances such as environmental assessment and systems based on laws and ordinances. (4) Understand analytical techniques and methods of environmental monitoring implemented by local government. (5) Understand methods of surveying to obtain a grasp of sources of environmental pollution due of metal contaminants	<Target organization> Governmental Organization (central/local) in charge of environmental administration. <Target Group> (1) University graduates with a chemistry background, or the equivalent (2) Key administrative engineers (not including researcher) in the environmental field with at least 3 years of experience (3) Between 30 – 40 years of age		
CONTENTS	PROGRAM PERIOD	Jun.1.2009 ~ Aug.8.2009	
Step1 <Know the background to hazardous pollutant countermeasures> 1-1 Overview of Pollution Due to Hazardous Substances (Lecture) 1-2 Health Impacts, etc., of Hazardous Substances (Lecture) Step2 <Acquire basic information relating to hazardous pollutant countermeasures> 2-1 Environmental Measures by Local Government (Lecture) 2-2 Environmental Monitoring (Lecture/Practice) Step3 <Learn concrete methods relating to hazardous pollutant countermeasures> 3-1 Studies Trace Pollution Sources 3-2 3R Promotion Techniques (Lecture/Observation) 3-3 Pollution Control Technologies (Facility Tour) Step4 <Acquire solutions from specialists for accomplishment of tasks in the home country> Step5 <Action Plan Presentation and Verification of Manifested Effects of Training> Follow-up by JICA-GEC Network	IMPLEMENTING PARTNER	OSAKA PREFECTURAL GOVERNMENT, DEP. OF ENVIRON.&Agri.	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2006~2010	
	REMARKS	Participants are required to bring some photos, slides, or data of examples of hazardous substances pollution.	

Comprehensive Waste Management Technique 廃棄物管理総合技術		GROUP	0980226
		Environmental Management—Urban Solid Wastes Environmental Management—Industrial Solid Wastes 9 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Participants will acquire comprehensive knowledge and skills for effective and proper planing and implementation of solid waste management.</p> <p>【Outputs】 To achieve the above mentioned objective, the participants will: (1) clarify the problems and causes of solid waste management in their countries, (2) understand the environmental policy and solid waste management in Japan, (3) understand the process of solid waste management in Japan (collection and transportation, intermediate treatment, and final disposal), (4) understand the importance of environmental education, (5) understand the roles of environmental management such as EIA in solid waste management</p>	<p>【Target Organization】 Departments in charge of solid waste management in national/local government or public organizations</p> <p>【Target Group】 (1) Technical staff in charge of solid waste management at national/local government or public organizations (2) More than three (3) years of work experience in the field of solid waste management (3) Under 40 years of age</p>		
CONTENTS	PROGRAM PERIOD	Aug.11.2009 ~ Nov.8.2009	
<p>* This program deals with general, industrial and medical wastes. (1)<u>Issue analysis workshop</u>: Analyze the problems and causes of the waste management in participants' countries (2)<u>Country report presentation</u>: Share the results (3)<u>Waste management policy</u>: Environmental policy and administrative system of waste management in Japan (4)<u>Landfill disposal technique</u>: Sanitary landfill technique "Fukuoka Method", etc. (5)<u>Collection and Transportation</u>: Time and motion, etc. (6)<u>Waste treatment technique</u>: Recycling, hazardous waste treatment, etc. (7)<u>Environmental education and awareness</u>: Role and concrete methods of environmental education taken by various actors (national/local government, schools, NGOs/citizens' groups and media) (8)<u>Environmental management</u>: Concept, methods and concrete examples of EIA, etc. (9)<u>Feedback session</u>: Review of each unit of the training (10)<u>Final report presentation</u>: Present an action plan for improving waste management in participants' countries</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p> <p>REMARKS</p>	<p>Environment Department, Hiroshima Prefectural Government, Hiroshima International Center</p> <p>JICA Chugoku</p> <p>2006~2010</p>	

Research on Environment Technology 環境調和技術		GROUP	0980729
		Environmental Management—Other Environmental Management Issues 4 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Acquiring information and skills on environment-conscious technologies, participant will be enhanced and developed his/her fundamental skills of research as a researcher who can work efficiently to plan and execute research project that contributes to solve problems concerned participant's home country even under restricted circumstances.</p> <p>【Expected Results】 1) To deepen new technology and knowledge on environmental technology and be able to explain the international trends of the research and some cases of technological applications in the private sector. 2) To improve accuracy fundamental analysis ability. 3) To make a Technical Report as a result of the technical training in Japan 4) To make a Research Proposal in their countries fully-considered current situation of their countries.</p>	<p>【Target Organizations】 Public research institutes, universities</p> <p>【Target Group】 (1) Researchers in the field of environmental technology (2) Individuals with Masters degree or equivalent (3) Individuals with at least 3 years of research experience</p>		
CONTENTS	PROGRAM PERIOD	Jul.21.2009 ~ Feb.27.2010	
<p>【Preparatory phase】 Participants are requested to make their own research proposals under the consultations of the host researchers.</p> <p>【Program in Japan】 1) <u>Lectures (introduction of the related field) (1-2 weeks)</u> 2) <u>Study tour and site observation(1-2 weeks)</u> Related industrial plant in the private sector, other institution or lab. 3) <u>Individual research (about 7 months)</u> Participants will be assigned as a member of the laboratory of the host researcher, conduct research under the supervision of the host researcher, and write up the results in a technical report.</p> <p>*reference web site : http://www.aist.go.jp/index_en.html</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p> <p>REMARKS</p>	<p>National Institute of Advanced Industrial Science</p> <p>JICA Tsukuba</p> <p>2007~2009</p> <p>Subjects to be offered in relation with the following fields: Effective Energy Resources Utilization technology assessment Evaluation, Measuring & Monitoring Eco-friendly technology Eco-material, Biomass utilization Human health</p>	

Regional Measures and Methods for Pollution Control for Environmental Engineers 地域環境保全対策と技術		GROUP	0980917
		Environmental Management—Environmental Administration	
		5 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants will propose plans to better reflect upon the data and information obtained by the research section for the pollution control policy and administration in their countries. To reach the objective, participants are expected to achieve the following: 1) To gain practical ideas about an effective process of pollution control policy and measures (environmental policies, legal and administration systems, roles of research and administration sections and cooperation between them, the steps from surveys, and analyses to administrative measures) 2) To gain a concrete understanding of water preservation, water pollutant sources, sewage treatment methods, and related survey and analysis techniques 3) To gain a concrete understanding of air preservation, air pollutant sources, exhaust systems, and related survey and analysis techniques 4) To gain a concrete understanding of waste treatment and waste recycling 5) To make an action plan to strengthen the cooperation and interactions between research organizations, and policy and administration sections, and to better reflect upon the data and information obtained from research for the environmental policy and administration	(1) Technical officials and researchers responsible for pollution control at government environment research institutes, and technical officials in charge of pollution control policies and administration (NOTE: This program is NOT for officers/researchers in charge of natural conservation.) (2) University graduates in environmental engineering or chemistry (NOT biology)		
CONTENTS	PROGRAM PERIOD	Oct.6.2009 ~ Dec.3.2009	
Preparatory Phase: Preparation of Country Report Phase in Japan: (1) Lectures: Environmental administration in Japan and Hokkaido, Techniques for preventing water and air pollution, Environmental Impact Assessment(EIA), Solid waste management and recycling, Environmental education (2) Practical exercises: Techniques of environmental monitoring(air & water), Environmental pollution source (3) Observation: Organizations and facilities related to pollution control, Factories (possible sources of pollution) Finalization phase: Implementation of the Action Plan and report the progress.	IMPLEMENTING PARTNER	Hokkaido Institute of Environmental Sciences	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2005~2009	
	REMARKS	This program is NOT for technical officers/researchers in charge of natural conservation(including park management, preservation of wild life and forests)	


Automotive Technology for Environmental Protection 環境保全のための自動車技術		GROUP	0980921
		Environmental Management—Environmental Administration Transportation—Urban Transportation	
		6 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objective】 By sharing the outputs of this training course among organizations, knowledge for making environmental protection policies will be used more widely. 【Expected Results】 (1) To recognize the present situation on environmental issues related to automobiles and its countermeasure technology in their countries in comparison with the situations in Japan and the world. (2) To build up the capability for policy development in their countries by deepening the knowledge of measures taken in Japan for the environmental protection on automobile in conjunction with the motorization. (3) To obtain capability to predict the effectiveness of the measures taken in their countries through the practice for the promotion of legislation, institutionalization and implementation of regulations etc. (4) To make action plans to solve the environmental problems in their countries related with motorization.	[Target Organizations] National or local organizations in charge of environmental issues concerning automobiles [Target Group] Administrative or technical officials of the above organizations with at least 5 years of experience		
CONTENTS	PROGRAM PERIOD	Jun.18.2009 ~ Aug.8.2009	
【Preparatory phase】 Making an inception report describing present situation, issues, etc. 【Program in Japan】 (1)Lectures and exercise •Outline of the automotive industry, governmental policy •Environmental issues: emission, fuels, clean energy, traffic flows •Traffic flows, vehicle recycling technology, registration •Atmospheric observation system, etc. (2) Discussion • Presentation of inception report and action plan	IMPLEMENTING PARTNER	JAPAN AUTOMOBILE RESEARCH INSTITUTE (JARI)	
	JICA CENTER	JICA Tsukuba	
	COOPERATION PERIOD	2005~2009	
	REMARKS	Web site: JARI http://www.jari.or.jp/en/index.html	


Environmental Impact Assessment for ODA Project ODAにおける環境影響評価		GROUP	0980936
		Environmental Management—Other Environmental Management Issues	
		13 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Participants will be able to increase their capability for providing appropriate guidance to organizations engaged in EIA (Environmental Impact Assessment) or ESC (Environmental and Social Considerations) as well as being able to make more appropriate judgment for the implementation of EIA in their countries by referring to numerous advanced cases.</p> <p>【Outcome】 Through the program, participants are expected to: (1) Be able to explain the fundamental ideas, mission and problems of ESC. (2) Learn the efforts of international aid agencies to increase the awareness of ESC and be able to describe the requirements for development projects. (3) Be able to explain the points of procedures and techniques for the implementation of EIA/ESC. (4) Gain the skills to facilitate smooth consensus-building through workshops. (5) Be able to identify issues of EIA/ESC in their counties, analyze problems and logically present their solutions.</p>	<p>1) Examining authority for EIA, 2) National or Local Government engaged in large-scale development projects requiring EIA</p> <p>【Group】 (1) be technical officers in charge of planning and implementation of in ODA projects, (2) have basic knowledge and experience in EIA, (3) be able to utilize the knowledge obtained during the course to own administrative operations, (4) be under forty-five (45) years of age, (5) be university graduates or equivalents, (6) have enough English capability for discussions and presentations. (7) be in good health, both physically and mentally</p>		
CONTENTS	PROGRAM PERIOD	Jun.14.2009 ~ Jul.11.2009	
<p><Preliminary phase in home country> Preparations for Inception Report (organizational framework and job description, state of EIA system and Cases conducting EIA in their organizations) and its presentation.</p> <p><Core Phase in Japan> A set of exercise, lectures and site visit will be covered in the main subjects follow. 1) Introduction to EIA, 2) International cooperation and EIA, 3) Procedures and methodologies of EIA, 4) Operational skills, 5) Presentation skills Through these subjects, participants formulate model plan for implementing EIA.</p> <p><Follow-up phase in home country> Participants are expected to report the current situation on EIA.</p>	<p>IMPLEMENTING PARTNER</p> <p>Overseas Environmental Cooperation Center</p>	<p>JICA CENTER</p> <p>JICA Tokyo</p>	
	<p>COOPERATION PERIOD</p> <p>2005~2009</p>		
	<p>REMARKS</p> <p>Since this program is subject to administrative officers with technical background, researchers may not be able to attain their academic objectives through this training program.</p>		


Water Environmental Monitoring 水環境モニタリング		GROUP	0980962
		Environmental Management—Water Pollution	
		10 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 This course aims at enhancing technical capabilities of officers and laboratory staffs in the field of water quality monitoring and helping them develop action plans for improving their operations.</p> <p>【Outputs】 Participants are expected to be able to: (1) To be able to explain the mechanism of the water pollution and its effects. (2) To deepen the knowledge on water quality management. (3) To gain the basic practical skills on water quality monitoring and data processing. (4) To analyze the challenges on water quality monitoring in relevant organization and formulate an action plan.</p>	<p><Organization> (1) Central/local government and public institutions in charge of water quality monitoring. <Qualifications> (1) leading technical officers in central and local government to plan and implement comprehensive and systematic monitoring on water quality. (2) being a university graduate (science or engineering) or have the equivalent academic background, and have basic knowledge on water environment, (3) 25 -35 years of age, (4) have sufficient command for discussing and making presentation in English</p>		
CONTENTS	PROGRAM PERIOD	Sep.7.2009 ~ Oct.25.2009	
<p><Preliminary Phase in home country> Making a Country Report describing job outlines, the status of water quality management, water environment. Filling up Questionnaire.</p> <p><Core Phase in Japan> The set of lectures, practice, site visits and discussion session will be conducted. The main subjects are: (1) Mechanism of water pollution and its effects on our life (2) Water pollution management system (3) Methodology of water quality monitoring</p>	<p>IMPLEMENTING PARTNER</p> <p>Japan Environmental Sanitation Center</p>	<p>JICA CENTER</p> <p>JICA Tokyo</p>	
	<p>COOPERATION PERIOD</p> <p>2005~2009</p>		
	<p>REMARKS</p> <p>Other Implementing Partner -National Environmental Research & Training Institute, Ministry of Environment -Japan Society on Water Environment</p>		


Seminar on Comprehensive Solid Waste Management 廃棄物総合管理セミナー		GROUP	0980974
		Environmental Management—Urban Solid Wastes	
		11 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants are expected to 1. expand the knowledge on administration system of solid waste management system. 2. enhance the outline of solid waste management technologies which include collection, transportation, intermediate treatment, final disposal, re-use and recycling. 3. expand the knowledge for improving their institution through understanding their own problems and other countries' case.	(1) Mid-career officials presently in charge of solid waste management in central or provincial governments or in local bodies, with more than 2 years of occupational experience in this field (2) Under 45 years old (3) University graduates or possess equivalent technical qualifications in this field		
CONTENTS	PROGRAM PERIOD	May.13.2009 ~ Jul.2.2009	
The following subjects are covered at the seminar; (1) Waste management administration in Japan, Planning of waste management (2) Reduction of waste and citizen's participation (3) Solid waste collection and transportation (4) Solid waste treatment and disposal (5) Recycling and reuse technologies (6) Hazardous waste management (7) Others (country report presentation, group discussion and action plan presentation)	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2005~2009	
	REMARKS	This program is designed for countries whose main final disposal site is NOT in coral area. The country report is used not only for selecting applicants, but also for presentation.	


Environmental Management Technology in Chemical Industries 化学産業における環境管理技術		GROUP	0980982
		Environmental Management—Other Environmental Management Issues	
		6 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The participants are expected to obtain the capabilities of applying environmental management skills and methods in their respective countries, through learning of the latest information regarding those skills used in Japan. [Expected Results] 1. To broaden understanding of the legal system and management technique for chemicals through the whole life cycle from production to disposal of products as well as their environmental management 2. To acquire technical knowledge needed for the management of chemical substances such as test and assessment methods, risk assessment techniques, etc. 3. To gain a better understanding on comprehensive knowledge of the latest technology currently used in Japan for environmental management i.e. safety management and reduction of effluent discharge, detoxification of hazardous chemicals, resources recycling, energy conservation, etc. 4. To gain understanding of environmental monitoring and domestic solid waste treatment conducted by local governments	[Target Organization] National or local governments, petrochemical and other chemical industries in charge of environmental management [Target Group] (1) Governmental inspectors or planners for the industry, business executives or technical engineers with at least 5 years of practical experience in the field of environmental conservation (2) University graduates or those with equivalent academic background and proficient command of spoken and written English		
CONTENTS	PROGRAM PERIOD	Jun.1.2009 ~ Jul.18.2009	
1: Orientations on the Latest Technologies Implemented in Local Government (1) Introduction of the City of Yokkaichi and its Petrochemical Industrial Complex (2) Laws on Emission and Disposal of Chemicals (3) Footsteps on Improving Environment (Yokkaichi's Experience) (4) Local Government's Environment Monitoring System 2: Risk Management Technology on Chemical Substances (1) Risk Management of Chemical Substances and Latest Technology of Analysis (2) Cleaner Production (3) Air Pollution and Water Pollution Control Technology 3: Environmental Management of Chemical Industries (Factories visit) 4: The Latest Technology for Chemical Substances Management (1) Solid Waste Final Disposal Site (2) Dioxin Analysis Technology (3) Toxic Chemical Substances Control (4) Energy Saving Type Wastewater Treatment Technology 5: Summary (Evaluation Meeting and Final report & Action Plan presentation)	IMPLEMENTING PARTNER	INT'L CENTER FOR ENVIRONMENTAL TECH. TRANSFER	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2005~2009	
	REMARKS	http://www.icett.or.jp/ For applicants from non-governmental organization, an official authorization is needed to show the equivalence to a governmental organization.	


The Environmental Management of Enclosed Coastal Seas 閉鎖性海域の水環境管理		GROUP 	0980997
Target Countries: Countries with closed marine systems and/or river estuary regions		3 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>To transfer skills related to Japan's experiences of environmental management in enclosed coastal seas and develop the human resources who could play a major role in this field.</p> <p>To reach the objective, participants are expected to achieve the following:</p> <p>(1) To clarify environmental problems or issues related to enclosed coastal seas in your country through formulating and presentation of Job Report</p> <p>(2) To improve your knowledge or skill in this field through the training</p> <p>(3) To formulate a practical action plan and finding a solution to environmental problems in your country</p> <p>(4) To share your action plan in your organization and submit a progress report after 6 months</p>	<p>【Target Organizations】 Department take in charge of environmental management of enclosed coastal seas</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</p>		
CONTENTS	PROGRAM PERIOD	Aug.17.2009 ~ Oct.23.2009	
<p>【Preliminary Phase in a participant's home country】 Preparation of Job Report on environmental problems of enclosed coastal seas in participant's country.</p> <p>【Core Phase in Japan】 (1) Overview of the management of enclosed coastal seas (2) Mechanisms of Environmental Pollution in Enclosed Coastal Seas (3) Environmental Management and Policies for Sustainable Development of Enclosed Coastal Seas (4) Methods of monitoring Enclosed Coastal Seas (5) Extension Program</p> <p>【Finalization Phase in a participant's home country】 Implementation of Action Plan Participants have to submit a progress report after 6 months</p>	IMPLEMENTING PARTNER	INTERNATIONAL EMECS CENTER	
	JICA CENTER	JICA Hyogo	
	COOPERATION PERIOD	2005~2009	
	REMARKS	To implement the curriculum which match to needs in respective countries, this course establishes expnading program which is based on the questionnaire from participants.	

Sewage treatment technique for Central and South America 中南米地域生活排水処理		R/F 	0984018
Target Countries: Central and South America		12 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 This program aims to enhance the capabilities of participants to improve the sewage treatment system in their respective countries.</p> <p>【Outputs】 To achieve the above mentioned objective, the participants will:</p> <p>1) clarify the current situation and problems of the sewage treatment in their respective countries,</p> <p>2) understand the importance of sewage treatment in relation to water environmental preservation</p> <p>3) acquire knowledge of sewage treatment plan</p> <p>4) understand the importance of capacity development in relation to sewage treatment</p> <p>5) prepare an action plan to improve the sewage treatment in their respective countries</p>	<p>【Target Organizations】 Department in charge of planning, operation and maintenance of sewage treatment facilities in central/local government or public organizations</p> <p>【Target Group】 Technical officials who meet the following qualifications; (1) currently in charge of planning, operation and maintenance of sewage treatment (2) university degree in the field of sewage treatment and the basic knowledge in the field (3) belong to organizations possessing a sewage treatment system, or controlling the planning, implementation, and management of such system</p>		
CONTENTS	PROGRAM PERIOD	Aug.25.2009 ~ Nov.1.2009	
<p>This course consists of lectures, discussions, practical exercises, and site observations, and learn following subjects.</p> <p>* Water Environmental Issues and Sewage Treatment * General Theory of Sewage Treatment Technique * Current Situations and Issues of Sewage Treatment in Developing Countries * Capacity Development in Relation to Sewage Treatment * Site Observation of Sewage Treatment Facilities etc.</p> <p>Additionally, workshops and discussion sessions are implemented to enhance the understanding of the course.</p>	IMPLEMENTING PARTNER	Higashi-hiroshima city, Hiroshima International Center	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2007~2009	
	REMARKS		

KOICA-JICA JOINT TRAINING PROGRAM 「Policy and Technology for Energy Conservation and Environmental Protection in East Asia」 日韓共同研修「東アジア環境・省エネルギー政策と技術」		R/F		0984137
Target Countries: East Asia		14 participants /		English
OBJECTIVE	TARGET ORGANIZATION / GROUP			
【Objective】 Government administrative officers and researchers in developing countries, who are in energy conservation or environmental protection in national/local government become able to set basic policy strategies to address own problems. 【Expected Results】 (1)To understand the outline of energy conservation and environmental protection at national and local level in Korea and Japan, and in East Asia. (2)To observe and understand the concrete activities taken by national/local government and private companies. (3)To understand environmental education with community participation. (4)To propose "action plan" for energy conservation and sound material cycle society in own countries.	Department which deals with Policy and Technology for Energy conservation and Environmental protection in national/local government or Institution			
CONTENTS	PROGRAM PERIOD	Oct.18.2009 ~ Oct.31.2009		
This course is designed for governmental officers and experts in developing countries, who are in charge of solid waste management, climate change, sustainable water resource management, bioenergy production from biomass in national/local government to acquire appropriate knowledge for energy conservation, sound material cycle society, water resource management and bioenergy production to take action against the issues in East Asian countries.	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association		
	JICA CENTER	JICA Kyushu		
	COOPERATION PERIOD	2008~2010		
	REMARKS			

KOICA-JICA JOINT TRAINING PROGRAM「Environmental Protection Technology & Management for Air Pollution Control」 日韓共同研修「大気環境保全管理」		R/F		0984138
Target Countries: Asia		16 participants /		English
OBJECTIVE	TARGET ORGANIZATION / GROUP			
Government administrative officers and researchers in developing countries, who are in charge of air quality management or monitoring in national/local government become able to set basic policy strategies to address own problems. (1)To understand basic knowledge on air pollution problem (2)To understand the policy and regulation for air quality management at central and local government in Korea and Japan. (3)To acquire the knowledge of monitoring and inspection system taken by national/local government in Korea and Japan. (4)To observe and understand monitoring methodologies for prevention of environmental pollution by private company. (5)To propose "action plan" for air quality management in own countries.	1) Individuals with more than 5 years experience of administrative or research work in the area of air quality management 2) Administrative engineers and researchers in the field of air quality management 3) Age: 30-50 years old			
CONTENTS	PROGRAM PERIOD	Sep.27.2009 ~ Oct.10.2009		
Korea: 1) Global environmental issues 2) Indoor air pollution 3) Toxic organic and inorganic chemicals in atmosphere (POPs) 4) VOC control technology 5) Introduction of Research Institute of Public Health and Environment 6) Air quality policy in Korea Japan: 1) Observation of ambient air quality monitoring center 2) History and current state of air pollution control in Japan 3) Administrative measures for air pollution control 4) Administrative regulation of automobile exhaust gas 5) The way for promoting comprehensive air pollution control 6) Dust collection technology 7) Removal techniques of sulfur and nitrogen oxides	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association		
	JICA CENTER	JICA Kyushu		
	COOPERATION PERIOD	2008~2010		
	REMARKS			

Capacity Building for Officers dealing with AR-CDM Project for Asia-Pacific Region and South & Central America アジア大洋州・中南米地域AR-CDM(CDM植林)担当者育成		R/F		0984202
Target Countries: Asia-Pacific region and Central and South America		9 participants /		English
OBJECTIVE	TARGET ORGANIZATION / GROUP			
To foster the personnel in charge of AR-CDM, and to enhance their abilities to develop and implement measures on AR-CDM	<p>【Target Organization】 Central administrative organizations in charge of policies regarding AR-CDM</p> <p>【Target Group】 Administrative officers working for AR-CDM in central administrative organizations or its related organizations, or researchers Participation of counterparts in projects for technical cooperation is encouraged.</p>			
CONTENTS	PROGRAM PERIOD	Oct.14.2009 ~ Nov.9.2009		
<p>Lectures to understand the mechanism of global warming and measures for forest conservation scientifically and to understand Kyoto Protocol, rules for Kyoto mechanism, rules for AR-CDM and small scale AR-CDM</p> <p>Observations to grasp the present situations regarding forest conservation in Japan that contributes to AR-CDM</p> <p>Country report presentations and discussions to understand the roles of developing countries concerning Kyoto Protocol and forest conservation</p> <p>Practices about the carbon absorption calculation method and its actual calculation, and the processes to formulate a project plan for AR-CDM and to draw up project design drawing (PDD)</p> <p>The participants will make plans to conduct AR-CDM projects verified adaptability to their own countries.</p>	IMPLEMENTING PARTNER	JICA		
	JICA CENTER	JICA Tokyo		
	COOPERATION PERIOD	2007~2009		
	REMARKS			

Hazardous Waste Management and Appropriate Disposal for Asia アジア地域有害廃棄物管理・適正処理		R/F		0984209
Target Countries: Asian Countries		6 participants /		English
OBJECTIVE	TARGET ORGANIZATION / GROUP			
<p>Participants are expected to</p> <ol style="list-style-type: none"> 1. learn the experience and knowledge on hazardous waste management in Japan. 2. share their experiences on hazardous waste management in their countries. 3. formulate draft Action Plans during the course to improve their situation through understanding their own problems. <p>as expected after returning their countries be able to develop a hazardous waste management policy in their respective countries.</p>	<p>【Target Organizations】 Organizations engaged in hazardous waste management in the central government agencies</p> <p>【Target Group】 (1) Mid-career officials presently in charge of hazardous waste management in central government agencies (2) Under 45 years old (3) University graduates or with equivalent technical qualifications in this field</p>			
CONTENTS	PROGRAM PERIOD	Nov.18.2009 ~ Dec.20.2009		
<p>The following subjects are covered during the course;</p> <ol style="list-style-type: none"> (1) Measures taken by central and local governments in Japan against hazardous waste including success and failure cases (2) Approach of business enterprises to specified wastes such as industrial wastes and hospital wastes generated by their activities (3) Comprehension of current treatment system and problems through observation trips to business enterprises and hospitals which generate hazardous wastes (4) Formulation of draft Action Plans through discussion, group work, knowledge and experience obtained in the course (5) Follow-up through an individual consultation, TV conference, etc., if necessary (financial support for realization of such an action plan as construction of disposal plant is not included) 	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center		
	JICA CENTER	JICA Yokohama		
	COOPERATION PERIOD	2007~2009		
	REMARKS			

Solid Waste Management for Southwest Asia – Discussion for Realizing the Improvement Measures – 南西アジア地域廃棄物管理－具体的改善策の策定に向けて－		R/F	0984224
Target Countries: Bangladesh, India, Nepal, Pakistan, Sri Lanka and Bhutan		9 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>Over all goal of the training course is to implement strategies created through the course in each participant's organization.</p> <p>At the end of the program, the participants are expected to achieve the following;</p> <p>(1) To understand solid waste management in Japan and local government, and the issue in own country</p> <p>(2) To understand waste treatment technique through learning effective methods of collection and treatment</p> <p>(3) To understand the activity of environmental education with community participation in local government</p> <p>(4) To acquire proper methodology of final landfill site</p> <p>(5) To acquire composting techniques for organic waste</p> <p>(6) To formulate action plan for waste management</p>	<p>1) Current Duties: be government officers who are presently engaged in solid waste management or environmental education for citizens at local or central government.</p> <p>2) Experience in the relevant field: have more than 2 years' experience in the field mentioned above 1).</p> <p>3) Educational Background: be a graduate of university or equivalent level.</p> <p>4) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more.</p> <p>5) Age: be under 45 years of age</p>		
CONTENTS	PROGRAM PERIOD	Oct.4.2009 ~ Nov.27.2009	
<p>Following lectures, observations and practices are scheduled to achieve the objective.</p> <p>(1) Laws related to waste treatment / Waste management in local government / Conservation activity for environment in Japan</p> <p>(2) Separation of general waste, Collection and transportation, and Effective system of treatment / Treatment of toxic waste (Medical waste and industrial waste) / Recycle technique for paper and plastic</p> <p>(3) Method and practice of environmental education with citizens / Exchange program with NPO / Creation and Role of center for environmental enlightenment</p> <p>(4) Regulation and framework of landfill site / Secure of sanitary landfill site</p> <p>(5) Theory and analysis of composting techniques for organic waste / Practice of composting</p> <p>(6) Discussion between participants / Proposal from course leader / Job report and Action plan presentation</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-cooperative Association (KITA)	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2007~2009	
	REMARKS	Two participants are expected from Bangladesh, Pakistan and Sri Lanka.	


Human resource development program in environmental management and material cycle society (Master's Degree: Engineering or Environmental management) 環境管理と資源循環型社会を担う中核的人材育成(長期)		L/T	0981206
		3 participants	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 The ability of environmental management and research for officers in central/local government and researchers in institution and university is improved.</p> <p>【Expected Results】 (1)To acquire the knowledge and measures of formulating policy and planning for sustainable environment (2)To acquire the knowledge and measures for analyzing substances in water and atmosphere, and pollution in groundwater based on physical, chemical and biological aspects. (3)To acquire the knowledge and measures for process developments, designing and analysis through learning various kinds of unit processes and analysis/monitoring methods to promote environmental protection and material cycle society. (4)Training on thesis writing</p>	Central/local government, research institute and university relating to environmental management and material cycle society		
CONTENTS	PROGRAM PERIOD	Sep.1.2009 ~ Sep.30.2011	
<p>This program is designed for administrative officers and researchers who are in charge of environmental management and sound material cycle society to strengthen their capacity through acquiring master course degree of environment engineer and environment management.</p> <p>(1)Environmental Economics, Environmental Reporting and Accounting, Environmental Policy and Administration, System of Sustainable Management, Urban Environmental Assessment and Planning, etc</p> <p>(2)Analysis of Toxic Chemicals in Environment, Aquatic Environment and Engineering, Remediation of Soil and Groundwater, etc</p> <p>(3)Environmental Preservation Engineering, Recycling Engineering, Environmental Information Technology and Computer Simulation, etc.</p> <p>(4)Special Study I , II</p>	IMPLEMENTING PARTNER	University of Kitakyushu	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2009~2011	
	REMARKS		

Global Environmental Leaders Development for Climate Change Mitigation (Master's Degree: Environmental Studies or Engineering) 国際環境人材育成 地球温暖化対策(長期)		L/T	0981210
Target Countries: Asia and Africa		2 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Policymakers and technicians will develop their capability of: 1) proposing and practicing approaches to solve the problems with a correct understanding of local situations, 2) coping with cross-sectoral and emerging problems, and 3) communication in the policy dialogues etc. that suits conditions of local society.</p> <p>【Expected Results】 (1)To acquire the theories, advanced knowledge and the problem-solving way of thinking. (2)To improve practical abilities through the internship and seminars to solve the problems in the original countries of the participants. (3)To acquire the ability to wrap up and publicize special reports logically and make actions based on them.</p>	Agencies of central/local governments, private companies, or higher education bodies related to climate policy and mitigation technology.		
CONTENTS	PROGRAM PERIOD	Sep.20.2009 ~ Sep.30.2011	
<p>This program aims to develop global environmental leaders who are able to propose practical measures to solve the problems of climate change.</p> <p>(1)The participants will take lectures, workshops and seminars under this course as required by the curriculum model and acquire credits (at least eight) to obtain the degree. (2)The participants will have a training or internship for a certain period in partner organizations from the Chubu Consortium for Environmental Leaders Development (cooperating body of this program). (3)The participants will complete a dissertation based on research instruction by main and assistant supervisors. The dissertation should identify and analyze an important issue in their original country, and provide measures to be taken to solve it.</p>	IMPLEMENTING PARTNER	Graduate School of Environmental Studies, Nagoya University	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2009~2011	
	REMARKS		


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  0980103 Environmental Management—Water Pollution
		9 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Based on the Action Plan proposed by respective participant, the knowledge or skills shall be shared his/her organization.</p> <p>【Outputs】 (1) To review basic knowledge of sewerage systems and wastewater treatment (2) To acquire knowledge necessary for planning and designing of sewerage systems (sewer network, wastewater treatment plants) (3) To acquire knowledge necessary for maintaining sewerage systems (sewer network, wastewater treatment plants) (4) To acquire knowledge necessary for industrial wastewater treatment and pretreatment facilities for discharge to sewerage systems (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries, with a clear understanding of relevant experiences and knowledge acquired in the course</p>	<p>【Target Organizations】 National/Local authority in charge of sewerage system operation and maintenance</p>	
CONTENTS	PROGRAM PERIOD	Jan.13.2010 ~ Mar.14.2010
(1) - Japanese regulation and situation of sewerage system - Sewerage in Kitakyushu - Basic planning for sewerage system (2) - Sewer network planning - Construction and designing of sewage treatment facilities - Principles of biological treatments and selections of treating methods (3) - Construction of sewer network - Operation and maintenance of sewer network - Maintenance of wastewater treatment facilities - Water quality practices and effective use of sewage sludge (4) - Water quality regulation of industrial wastewater - Water quality inspection of industrial wastewater - Wastewater treatment facilities (5) - Job report preparation (in advance), and presentation - Action plan preparation, and presentation - Report to JICA the progress of knowledge/skills sharing among the respective organization.	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS	


Sewerage Technology for Wastewater Control and Urban Drainage 下水道維持管理・都市排水		GROUP  0980105
Target Countries: Bhutan, Maldives, South Africa, Tanzania, Zimbabwe, Mauritius, Macedonia		Environmental Management—Water Pollution 8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Based on the Action Plan proposed by respective participant, the gained knowledge or skills shall be shared in his/her organization.</p> <p>【Outputs】 (1) To acquire basic knowledge of sewerage systems and wastewater treatment (2) To acquire knowledge necessary for planning and designing of sewerage systems (sewer network, wastewater treatment plants) (3) To acquire knowledge necessary for maintaining sewerage systems (sewer network, wastewater treatment plants) (4) To acquire knowledge necessary for sewerage administration and International cooperation (5) To propose sewerage systems improvement plans as "Action Plans" for the participant's respective countries, with a clear understanding of relevant experiences and knowledge acquired in the course</p>	<p>【Target Organizations】 National/Local authority in charge of wastewater treatment, sewage work and stormwater drainage</p> <p>【Target Group】 (1) be university graduate or those who have equivalent technical qualifications in this field, and have more than five(5) years of practical experience (2) be senior technical officers in charge of sewerage and drainage management in central /local government (3) be under 40 years of age</p>	
CONTENTS	PROGRAM PERIOD	Aug.31.2009 ~ Nov.7.2009
<p>【Preparatory phase (Before coming to Japan)】 Country Report describing present situation of their country and organization on the Sewerage Technology and Urban Drainage will be formulated by participants/participating organizations.</p> <p>【Program in Japan】 (1) To review basic knowledge related to; - Japanese regulation and situation of sewerage system - Sewerage in Osaka (2) Planning, designing and constructing of Sewerage facilities (Basic Plan, sewerage pipe line, pumping station, sewerage treatment facilities, sludge treatment facilities, Principles of biological treatments and selections of treating methods) (3) Maintenance of sewerage systems (Sewerage ledger, sewerage pipe line, pumping stations, sewerage treatment facilities, sludge treatment facilities, water quality regulations and industrial wastewater, water quality test) (4) Sewerage administration and international cooperation (Finance and management of sewerage works) (5) Preparation/Presentation of action plan -Country Report preparation (in advance), and presentation -Action plan preparation, and presentation</p> <p>【Post-program activities (After participants' return)】 - Report to JICA on the progress of knowledge/skills sharing among the relevant engineers in the participating organization.</p>	IMPLEMENTING PARTNER	Public works bureau/Osaka City
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008~2010
	REMARKS	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Every participant shares and implements its action plan, and then reports progress to JICA</p> <p>【Expected Outputs】 (1) To understand sewerage systems in Japan (2) To understand and experience planning and designing of sewerage systems to improve those in participant's country (3) To understand and experience operation and maintenance of sewerage systems to improve those in participant's country (4) To understand and experience industrial wastewater and pre-treatment to improve those in participant's country (5) To propose "Action Plan" to clarify how to improve participant's job and organization based on Modules 1~4)</p>	<p>【Organizations】 Sewerage works entities (can be governmental/ semi-governmental/ corporate)</p> <p>【Personal Qualifications】 <Current Duties> Senior sewerage works engineers <Experience> More than five (5) years in relevant field <Educational background> Engineering, Sanitation <Age> Under 40 years old</p>	
CONTENTS	PROGRAM PERIOD	Sep.8.2009 ~ Nov.10.2009
<p>【Preparatory Phase】 Each participant prepares Job report to identify its issues</p> <p>【Core Phase】 <Subjects per modules> (1) Current situation and rules & regulations of sewerage system in Japan, sewerage system in Sapporo, master plan of sewerage systems (2) Sewer network planning, planning and construction of treatment plant, principal of biological treatment, appropriate selection of treatment method (3) Construction of pipe, operation and maintenance of pipe, operation and maintenance of water treatment plant, practice of water quality inspection, efficient use of sludge (4) Water quality regulations, water quality control, wastewater treatment plant (5) Job report presentation, discussions, guidance for action plan making, action plan presentation</p> <p>【Finalization Phase】 With in 6 months after completion of the course, every participant is requested to share its knowledge and experience in Japan at respective organization, then reports Action Plan progress to JICA</p>	IMPLEMENTING PARTNER	Construction Bureau, City of Sapporo
	JICA CENTER	JICA Sapporo
	COOPERATION PERIOD	2008~2010
	REMARKS	


Adaptive Watershed Management for Flood Countermeasures by Climate Change and Conservation of Ecosystem 気候変動による洪水対策と生態系保全のための順応的流域管理		GROUP 	0980765
		Environmental Management—Environmental Administration	
		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Adaptive watershed management methods will be systematically shared among organizations operating flood control and ecosystem conservation for watershed management by having mid-level working and senior administrative officers from the target organizations (a three-year objective).</p> <p>【Outputs】 To attain the objective, the participants are expected to achieve the followings: 1. First and Second year program (1) To be able to explain the effects of climate change on the watersheds of their respective areas and discuss the possibility of introducing adaptive watershed management method, (2) To be able to analyze current flood risks and the conditions/patterns of ecosystem destruction in the watersheds of their respective areas and explain tasks related to area management methods and ongoing adaptive measures, (3) To formulate the Action Plan (temporary) for an adaptive watershed management project in the target country.</p> <p>2. Third year program In addition to the Outoputs (1) to (3), (4) To formulate the Action Plan of necessary method for adaptive management planning applicable to the watersheds in the target country.</p>	<p>【Target Organization】 Project implementation organizations engaging in flood control or ecosystem conservation in watershed areas</p> <p>【Target Group】 <Position> First and second year: Mid-level working officers in charge of flood control and ecosystem conservation projects within organizations</p> <p>Third year: Senior administrative officers of organizations related to flood control and ecosystem conservation and academic experts directly involved in designing management plans for individual watershed</p> <p><Experience> Have more than five years of practical experience in the relevant field</p> <p><Other> It is strongly recommended for each the same organization related to flood control and ecosystem conservation to nominate an applicant every year.</p>		
CONTENTS	PROGRAM PERIOD	Aug.16.2009 ~ Oct.17.2009	
<p>【Preparatory Phase】 Submission of the Inception Report (present state and issues)</p> <p>【Program in Japan】 •L:Lecture, O:Observation, P:Practice, D:Discussion 1. First and second year program (1)L: Global environmental change/Kyoto Protocol, Post-Kyoto Protocol framework, L/O: Fundamentals of landscape ecology, Dams and watershed control (2) L/O: Conservation method of ecosystem, Floodplain management and Resident activities, L/P: Floodplain management methods, biodiversity and flood frequency, L/O: River flood control and biodiversity conservation, L/P: Basic knowledge and operation of GIS, Floodplain management methods using GIS, L/O: Protection of biodiversity and small mammals (3) Workshop: Issue analysis, Capacity development, L/D: Consensus building, Cooperation with NGOs</p> <p>2. Third year program In addition to the Outoputs (1) to (3), (4) D: Issues on the Action Plan (draft)</p> <p>【Program in home country】 Submission of the Final Report within six months after returning home countries.</p>	IMPLEMENTING PARTNER	Hokkaido University, Rakuno Gakuen University, Hokkaido Regional Development Bureau	
	JICA CENTER	JICA Obihiro	
	COOPERATION PERIOD	2009~2011	
	REMARKS	<p>Since the program objective is designed to be attained through 3 years, the duration of each year's program differs as follows: -First and Second year: 60 days -Third year: 21 days</p>	

Environmental Education Focused on Fresh Water Environment –For Tertiary Level		GROUP 	0980991
Teaching Staff- 水環境を主題とする環境教育		Environmental Management—Other Environmental Management Issues Nature Conservation—Other Nature Conservation Issues 6 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
〈Overall Goal〉 Activities for promoting environmental education are continuously implemented based on the Action plan approved by the participants' organization in their home countries. 〈Program objectives (Outcome)〉 This program is designed to strengthen the participants' capacity to make action plans to solve the problems which participants' countries/ organizations are facing and to develop and spread environmental education 〈Outputs〉 1) Understand the concept and theory of environmental education, 2) Acquire the skills to make curriculums for environmental education, and 3) Make draft action plans to solve the problems which participants' countries/ organizations are facing.	(1) University/College lecturers or equivalent (2) Engaged or expected to be engaged in environmental education (3) Engaged in environmental education more than 3 years (4) University/college graduates or equivalent		
CONTENTS	PROGRAM PERIOD	Aug.17.2009 ~ Oct.17.2009	
〈Preparatory Phase in participants' home countries〉 Preparation and Submission of Country Report 〈Phase in Japan〉 Participants will learn following items through lectures, observations and practices - Basic Concepts in Environmental Issues: Country Report Presentation, EE in General, Environmental Problems, Public Sanitation in General - EE Principles, Activities and Materials: Principles of EE, EE Activities and Teaching Materials - Deployment of EE: Know-how for Worldwide Dissemination of EE - Networking between Citizens, Schools and Governments - Presentation of Training Results: Lectures by Participants to University Students, Individual Discussion on Final Report 〈Finalization Phase in participants' home countries〉 Sharing and developing Action Plan, Submission of Final Report (including progress of the Action Plan) to JICA regional office	IMPLEMENTING PARTNER	Shiga University/ International Lake Environment Committee Foundation	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2005~2009	
	REMARKS	〈Training Institution〉International Lake Environment Committee: ILEC)	

Sustainable community development by citizens' participation for West Balkan countries 西バルカン地域市民参加による持続可能な地域づくりと環境保全		R/F  0984200
Target Countries: West Balkan countries		Environmental Management—Environmental Administration 8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Capabilities for implementing sustainable communities will be enhanced. To reach the objectives, the participants are expected:</p> <p>(1) To cultivate a practical ability to reflect knowledge in policies by understanding the Japanese framework for municipalities. (2) To obtain the know-how of sustainable community development based on collaboration between citizens and municipalities. (3) To formulate an action plan for sustainable community focused on democratic consensus-building .</p>	<p>(1)Local government officials responsible for the formulation and implementation of community-based environmental management policy. (2)At least 3 years of practical experience * Participants are expected to have strong interest in the participatory approach.</p>	
CONTENTS	PROGRAM PERIOD	Nov.3.2009 ~ Nov.21.2009
<p>The curriculum consists of the following three parts:</p> <p>(1) Lectures (a) Community Development in Japan (b) Environmental impact assessment (EIA) (c) Environmental education /public awareness (d) Disclosure, environmental media, etc. (2)Field visits (a) Private companies with corporate social responsibility (CSR) (b) Model environmental cities (3) Presentation and Discussions/Workshop (a) Presentation of job report (b) Group discussion and panel session (c) Presentation of action plan</p>	IMPLEMENTING PARTNER	City of Kawasaki
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2007~2009
	REMARKS	

Adaptation for climate change 気候変動への適応		GROUP  0980066 Environmental Management—Global Warming 20 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Program Objectives】 Proposed plan for formulation and implementation of adaptation for climate change will be considered at the respective organizations.</p> <p>【Expected Results】 (1) To understand the current situation on adaptation to climate change in respective countries. (2) To understand the overview and international framework on adaptation to climate change. (3) To understand the factors for adaptive capacity, impact assessment and vulnerability assessment on climate change, measures, technology and cases on adaptation to climate change in Japan, and the way of the cooperation for developing countries. (4) To formulate measures to solve the problems on adaptation to climate change in respective countries.</p>	<p>【Target Organizations】 This program is designed for a national (or local) governmental office which is involved in adaptation to climate change.</p> <p>【Target Group】 - Administrative officers in charge of planning and implementation of adaptation to climate change (Preferably be an officer in national focal point of UNFCCC, who is in charge of coordination of adaptation issues in respective countries) - Experience in the relevant field: more than 3 years' experience.</p>	
CONTENTS	PROGRAM PERIOD	Sep.24.2009 ~ Oct.24.2009
<p>【Preliminary Phase】 Participants will make an Inception Report on the current situation of adaptation to climate change policy and problems in their country.</p> <p>【Program in Japan】 Participants are expected to understand the overall view of adaptation to climate change issue in order to fulfill the responsibilities stipulated by UNFCCC through lectures, discussions, practical exercises and site visits. (1) International framework and negotiation on adaptation to climate change (2) Climate change policy in Japan (3) Impact assessment and vulnerability assessment, measures, technology and cases on adaptation for climate change (4) Formulation an Action Plan for solving the problems on adaptation to climate change</p> <p>【Finalization Phase】 The Action Plans made in the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Six months after going back to Japan, participants will report the progress of the Final Report to JICA.</p>	IMPLEMENTING PARTNER	Meteorological Research Institute (MRI) and National Institute for Environmental Studies (NIES), etc
	JICA CENTER	JICA Tsukuba
	COOPERATION PERIOD	2008~2010
	REMARKS	

OBJECTIVE	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) 1.To grasp the reality and issues on waste management and to extract practical hints for solution through exchanging views among participants (2) o 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 and transportation method, sanitary treatment/disposal method, treatment of hazardous waste 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 (interim report featuring the improvement 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 and 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 of a model local government or related organization 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	Aug.24.2009 ~ Oct.16.2009
<p>【Preliminary Phase in a participant's home country】 Formulation and submission of Inception Report Preparation for report presentation</p> <p>【Core Phase】 <u>Related to output (1):</u> Lectures and Presentation Sharing the information and ideas through report presentation and discussion Presentation of information on waste (type and composition)</p> <p><u>Related to output (2):</u> Lectures and Observations Waste treatment planning, Reducing wastes, Waste collection,Intermediate treatment,Waste incineration,Final disposal, Recycling. Discussion and suggestions to apply the above mentioned items to participants' countries.</p> <p><u>Related to output (3):</u> Lectures and Presentation Citizens's role and and the importance of the collaboration between local government & citizens in the field of solid waste management. Environmental education and public awareness to reduce waste.</p> <p><u>Related to output (4):</u> Workshop and Discussion Workshop for problem analysis Designing action plan and its improvement through individual guidance and discussion</p> <p>【Finalization Phase in a participant's home country】 <u>Related to output (5):</u> PExplanation of the action plan and submission of its final report compiled by a participating organization to JICA three (3) months after the return.</p>	<p>IMPLEMENTING PARTNER Hyogo Prefectural Environmental Create Center Public Corporation</p> <p>JICA CENTER JICA Hyogo</p> <p>COOPERATION PERIOD 2008~2010</p> <p>REMARKS</p>	<p>Since there is a technical or economical gap on waste treatment between Japan and participating countries, not only the introduction of Japan's examples but also guidance considering the participating country's situation will be provided for each participant.</p> <p>This course will be implemented twice for JFY 2009. The second one is scheduled from Jan. 11 to Mar. 6, 2010.</p>


WASTE MANAGEMENT and 3R(Reduce,Reuse and Recycle)POLICIES 廃棄物3R・再資源化		GROUP  0980121
		Environmental Management—Urban Solid Wastes
		10 participants ★ / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
The purpose of this program is to give the participants an overall knowledge of technologies for industrial waste management and recycling, present trends of legislation and policies in the field of industrial waste management & recycling, skills to develop and implement recycling plans for industrial waste, and an overall information on the facilities and equipment concerned.	<p>Target Organization: Ministry of Environment, waste management section/ Ministry of Industry ,waste management section</p> <p>Target Group: (1) Technical university graduates or holders of equivalent technical knowledge & professional experience (2) Technical officials in the central or local government with more than 5 years of practical experience in the field of industrial waste management and recycling (3) 30-45 years old</p>	
CONTENTS	PROGRAM PERIOD	Nov.12.2009 ~ Dec.5.2009
(1) Present status of industrial waste management & recycling in Japan (2) Related legislation and strategies established in Japan (3) Implementation of countermeasures towards the creation of recycle-oriented society (standardization by ISO / green purchasing / product assessment (including LCA) / 3R-oriented design (Design for Environment)) (4) Present status of recycling by products in Japan (packaging & containers / home electrical appliances / foods / construction materials / end-of-life vehicles) (5) Development of environmental key technology (pre-treatment (collection, dismantling, crushing, sorting, dehydration & drying) / incineration, vitrification (melting) & solidification / pyrolysis / bio-treatment / energy-utilization)	IMPLEMENTING PARTNER	CLEAN JAPAN CENTER
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2009~2011
	REMARKS	This training course is scheduled to be implemented twice within JFY2009 (November 2009 and March 2010)

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The local government officer (who are in charge of the areal pollution control and environmental management) shall get the administrative management methodology on raising awareness, implementation of the practical countermeasures, etc.</p> <p>【Expected Results】 (1)Comprehension of industrial pollution problems (2) Environmental improvement, Environmental Management (3) Enhancement of Capacity Building on local environmental management (4) Based on the each country's situation, action plan to solve Enviromental Management Problem is composed.</p>	<p>Local government official where industrial pollution (mainly, air or water quality issue) is recognized. His/her office is expected to have the control rights on the source.</p>	
<p>CONTENTS</p>	<p>PROGRAM PERIOD</p>	<p>Aug.10.2009 ~ Sep.19.2009</p>
<p>This is a practical training targeting for certain local areas where industrial pollution exists and the situation is serious without effective countermeasures.</p> <p>(1)Comparing to the experience and status of Japanese pollution era, this chapter aims to promote the participants to have more consciousness upon the areal pollution (incl. medium & small scale one). Lecture but participatory discussion, analysis and presentation will be provided. (2)Review the concept of autonomous EMS. Introduce suitable EOP or CP technologies for the case studies reported by the participants. Incentives towards improvement such as ener-con, and social & economic approaches will be explained. Participants will settle feasible targets and their AP. (3)Areal environmental management will be focused. Hostile relationship among factory/company, government and local people will be wiped out and on the contrary, creates good relationship. Strategy of public participation to local environment management by each sector will be considered. (4)Composing Action Plan and implement the action plan after return.</p>	<p>IMPLEMENTING PARTNER</p>	<p>International Center for Environmental Technology Transfer (ICETT)</p>
	<p>JICA CENTER</p>	<p>JICA Chubu</p>
	<p>COOPERATION PERIOD</p>	<p>2009~2011</p>
	<p>REMARKS</p>	<p>This course aims to concrete solution to improve environmental problem by training in Japan. Thus the training contains self devotive activities like documentation and presentation.</p>

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>Participants will propose realistic measures against urban environmental problems in their cities.</p> <p>To reach the objective, participants are expected to achieve the following:</p> <ol style="list-style-type: none"> 1.To deepen understanding of methods and frameworks of urban environmental preservation for public health and safety. 2. To analyze and understand concrete environmental policies and projects (especially, best practices and controversial practices) which have been implemented by urban municipalities. 3.To understand methods and process to reflect monitoring results on environmental policies. 4.To make practical "Action Plan" based on the achievement of 1.-3. above, to tackle existing urban environmental problems in respective countries. 	<p>[Target Organizations] Central or Local Government in charge of urban environmental affairs (Preferably local government)</p> <p>[Target Group] (1) Technical officers in charge of environmental administration who now hold or will potentially assume managerial posts at central or local government which face urban environmental problems. (2) Individuals with at least 3 years of practical work experience</p>	
CONTENTS	PROGRAM PERIOD	Jan.19.2010 ~ Mar.3.2010
<p><Preparatory phase> Formulation of Country Report</p> <p><Phase in Japan></p> <p>(1) Lectures:Approach to urban environmental management, Municipalities' missions and functions in urban environmental administration, Features and measures of main urban environmental problems (waste management, water pollution, disaster/energy control, etc.), Environmental education, etc.</p> <p>(2) Practice, discussion:PCM (Project Cycle Management), etc.</p> <p>(3) Observations and discussions:Case examples for urban environmental management, Case examples of environmental education</p> <p><Finalization Phase></p> <p>Action Plans will be shared and implemented through discussion among persons concerned and the progress will be reported or submitted as Final Report to JICA within 3 months after return.</p>	<p>IMPLEMENTING PARTNER</p> <p>Environmental Affairs Bureau, City of Sapporo</p>	
	<p>JICA CENTER</p> <p>JICA Sapporo</p>	
	<p>COOPERATION PERIOD</p> <p>2006~2010</p>	
	<p>REMARKS</p>	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Program Objective】 Participants will become capable of proposing policies on climate change domestically and internationally with consideration for sustainable development.</p> <p>【Expected Results】 (1) To understand the concept of mainstreaming climate change policy into sustainable development. (2) To understand the basic concept of national communications and how to make it. (3) To understand how to develop inventories of greenhouse gas emission and sinks. (4) To understand adaptation and mitigation measures against climate change. (5) To develop an interim report (a draft of action plan) to solve problems in the field of his/her charge.</p>	<p>【Target Organizations】 This program is offered to governmental organizations in charge of climate change issues such as those from a national focal point office of UNFCCC.</p> <p>【Target Group】 - Administrative officials in charge of climate change issues in national governmental offices - Experience in the relevant field: more than 3 years' experience in the field or administrative work in Climate Change issue.</p>	
CONTENTS	PROGRAM PERIOD	Jan.7.2010 ~ Mar.6.2010
<p>【Preliminary Phase】 Participants will make an Inception Report on the current situation of the climate change policy and problems in their country.</p> <p>【Program in Japan】 Participants are expected to understand the overall view of the climate change issue in order to fulfill the responsibilities stipulated by the UNFCCC through lectures, discussions, practical exercises and site visits. (1) Outline of climate change (2) Basic concept of national communication (3) Outline of Mitigation (including CDM) and Adaptation (4) International framework for climate change issue</p> <p>【Finalization Phase】 The Action Plans made in the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Six months after going back to Japan, participants will report the progress of the Final Report to JICA.</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p>	<p>Ministry of the Environment</p> <p>JICA Tsukuba</p> <p>2007~2009</p> <p>【Related website】 <Ministry of the Environment> http://www.env.go.jp/en/</p> <p><Kyoto Mechanism Information Platform> http://www.kyomecha.org/e/index.html</p> <p>REMARKS</p>

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 This course aims at achieving consensus for challenges on sewage works engineering and storm water drainage among the related persons and clarifying the points on implementing projects and business for the solution.</p> <p>【Outputs】 Through the program, participants are expected: 1. To understand the related factors and procedure/methods for the designing/implementation of sewage engineering and storm water drainage technology, 2. To formulate the practical improvement plan for the sewage engineering and storm water drainage in their territory 3. To achieve consensus for challenges on sewage engineering and/or storm water drainage in their organizations and clarify the issues on implementing projects and business for the solution 4. To report the progress of improvement plan in six months after their return.</p>	<p>【Target Countries/ Organizations】 Central or local governments, autonomies or public organizations related to wastewater purification, sewage works, and storm water drainage</p> <p>【Target Group】 (1) Present position: Senior technical officers engaging in sewage works and/or storm water Drainage in central or local governments, or government related organizations. (2) Occupational Background: More than three (3) years of experience in sewage works and/or storm water drainage technology (3) Academic Background: University graduates or persons who have equivalent technical qualifications in the field of sewage works and/or storm water drainage.</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Sep.2.2009 ~ Nov.29.2009</p>
<p><Preliminary Phase in home country> Nominees are expected to make a Country Report, which is containing the status and issues of sewage, storm water drainage technology, water environment, and laws in addition to present jobs activities. Besides, Case study theme specifying issues which participants work on through the program, on sewage services and water environment protection etc., are included.</p> <p><Core Phase in Japan> Participants develop an Action Plan, which is described actions to solve the case study, which is set by participants by considering concrete solution based on the knowledge and information gained from the program, after they distill and reprioritize their issues by referring Japanese case on sewage works, stormwater drainage and water environment. A set of lecture, site observation and discussion will be set at the point of the main subjects as following: (1) Basic knowledge on sewage works and stormwater drainage such as long-term plan, law, finance etc. (2) Planning, Design and Maintenance of sewerage system facilities (3) Urban stormwater drainage system (4) Environmental protection measures (5) Management of sewerage services</p> <p><Follow-up phase in home country> Participants are expected to show the Action Plan to their organizations and make the points clear to implement or revise the plan. And participants are expected to report on the progress.</p>	<p>IMPLEMENTING PARTNER</p>	<p>Sewage Business Management Center</p>
	<p>JICA CENTER</p>	<p>JICA Tokyo</p>
	<p>COOPERATION PERIOD</p>	<p>2005~2009</p>
	<p>REMARKS</p>	

Urban Solid Waste Management by Local government 地方自治体における都市廃棄物処理		GROUP  0980802
		Environmental Management—Urban Solid Wastes
		10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 This course aims for 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>【Outputs】 (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.</p>	<p>【Target Organizations】 Local governments (or national governments' sections which support local governments' organizations) are in charge of urban solid management waste</p> <p>【Target Group】 1. Engineer or administrative officials of waste management experience or an equivalent level of knowledge 2. Experience in the relevant field: have more than 3 years' experience 3. Person will continue working in the same field after the training course</p>	
CONTENTS	PROGRAM PERIOD	Aug.10.2009 ~ Oct.21.2009
<p>1. Preliminary: Country Report preparation as a matrix form, which marshal their issues and the training modules in Japan. 2. In Japan: (1) Current situation and problems with waste management in Developing Countries (Workshop, Presentation and Discussion) (2) Current Situation and Problems of Waste Management in Japan (Lecture, Observation and Exercise) (3) Collection and transport work (Lecture, Observation and Exercise) (4) Intermediate treatment work (Lecture, Observation and Exercise) (5) Final disposal (Lecture, Observation and Exercise) (6) Waste that requires special treatment (Lecture, Observation and Exercise) (7) Collaboration with Citizens (Lecture, Observation and Exercise) (8) Country Report Presentation/Action Plan Making (Exercise, Presentation and Discussion) 3. After returning: Participants explain the action plans to their organizations. Participants report their activities on fields to JICA & implementing partners.</p>	IMPLEMENTING PARTNER	Osaka City Environment Bureau, Global Environment Centre Foundation (GEC)
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008~2010
	REMARKS	JICA Osaka and GEC run a website, which opens texts, participants' country reports and others to related people e.g. ex-participants, Japanese instructors. The people can do self-learning, sharing various information on the website.


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 A draft of project for improving the comprehensive risk management and monitoring technology will be formulated by relevant governmental organizations and this draft will be shared among those concerned.</p> <p>【Outputs】 (1) To be able to explain about basic concept of risk management based on risk assessment of chemicals – contamination of the environment and foods, adverse effects on ecosystem and human health, etc. (2) To be able to explain about principles and operation of analytical techniques related to monitoring of chemicals in environmental resources and agricultural products (3) To acquire analytical techniques and skills in instrumental analysis (including sampling, preparation, and pretreatment), immunoassay, and bioassay (4) To submit research reports at the end of first and second half periods with given theme, and to formulate action plan on use of acquired knowledge and techniques (5) The action plan will be submitted and studied for its feasibility.</p>	<p>【Target Organizations】 Administrative organizations in charge of risk management and research institutes in charge of monitoring of environmental and industrial chemicals.</p> <p>【Target Group】 (1) Current Duties: be an administration officer / supervisor in charge of risk management or a technical officer and researcher in charge of monitoring of environmental chemicals (2) Experience: have more than 3 years' experience in the field of risk management or monitoring of environmental chemicals. (3) Educational Background: be a graduate of university or equivalent</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Feb.15.2010 ~ Aug.21.2010</p>
<p>【Preliminary Phase in a participant's home country】 Formulation and submission of Job Mission Report Preparation for the report presentation</p> <p>【Core Phase】 <u>Related to output (1): Lectures and Presentation</u> Job mission report presentation for sharing the information and ideas Basic concept of risk management of chemicals for environmental safety Outline of environmental chemicals, risk evaluation, risk management and risk communication, Laws and regulations concerning environmental management. Effects on ecosystems, human health etc. <u>Related to output (2): Lectures and Lab Practices</u> Theory and principle of chemical analysis for monitoring (soil, water, air and agricultural/livestock products). Theory and principle of instrumental analysis and bioassay <u>Related to output (3): Lectures and Lab Practices</u> Pesticide residue analysis remained in agricultural products Chemical analysis of agro products and environmental samples Immunoassay of POPs Theory and principle of various test kits <u>Related to output (4): Workshop and Presentation</u> PCM Workshop for the selection of issues. Preparation and presentation of action plan Guidance session by Course Leader and technical advisor appointed for each participant</p> <p>【Finalization Phase in a participant's home country】 <u>Related to output (5):</u> Explanation of the action plan as a start for the implementation back in the participating organization and submission of its final report compiled by the participating organization by February 28, 2010, to JICA.</p>	<p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p> <p>REMARKS</p>	<p>Hyogo Prefecture, Kobe University, etc.</p> <p>JICA Hyogo</p> <p>2008~2010</p> <p>As legal restriction on environmental chemicals in Japan, important laws and regulation will be introduced. For producing realistic action plan, a technical advisor will be appointed for each participant.</p>

Industrial Wastewater Treatment Technique 産業廃水処理技術		GROUP  0980815
		Environmental Management—Water Pollution
		8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Enhance the capability of officials and engineers in charge of industrial wastewater treatment to formulate adequate plans of industrial wastewater treatment in participant's countries.</p> <p>【Outputs】 To achieve this program objective, participants are expected to achieve the followings in Japan; (1) To understand the importance of wastewater treatment and the water pollution related existing regulations included disposal treatment (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 acquire the method of analyzing wastewater through practice, and to understand the methods of operation and maintenance of wastewater treatment facilities.</p>	<p>【Target Organizations】 Departments related to wastewater treatment in the central/local government or manufacturing enterprise.</p> <p>【Target Group】 1) Current Duties: be engineers in charge of wastewater treatment in government / municipal offices or manufacturing industries 2) Experience in the relevant field: have more than more than 5 years of occupational experience in the field of wastewater treatment 3) Educational Background: be a university graduate, majoring in chemical, mechanical, electrical or civil engineering, or the equivalent.</p>	
CONTENTS	PROGRAM PERIOD	Jul.20.2009 ~ Nov.27.2009
<p>1. 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>2.Core Phase in Japan (Lecture, practice and/or field study) (1)Basic of Water Pollution Control (2)Basic Theory of Wastewater Treatment (3)Basic Plan of Wastewater Treatment (4)Design and Construction of Wastewater Treatment Facilities (5)Operation and Maintenance of Wastewater Treatment Facilities (6)Formulation of Action</p> <p>3. 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 by March, 2009 based on the follow-up questionnaire to be provided during the phase in Japan.</p>	IMPLEMENTING PARTNER	Kyushu International Techno-Cooperative Association (KITA)
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2008~2010
	REMARKS	

Target Countries: maritime country

8 participants / English

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>This program aims to realize the development of the effective policies for marine environmental protection, and to direct the practical measures to the issues on the above mentioned field.</p> <p>To attain the objective, participants are expected to achieve the following:</p> <ol style="list-style-type: none"> (1) To explain the present situation and activities of marine environment protection in respective countries, (2) To explain the international framework of marine environment protection, (3) To explain the present situation and activities of marine environment protection in ASEAN, and the way of strengthening the cooperation and networking among the neighboring countries, (4) To explain the present situation and activities of marine environment protection in Japan, (5) To formulate an action plan on how to develop and promote the effective policy of marine environment protection. 	<p>【Target Organizations】 Coast guard or maritime authority obliged to marine pollution prevention work</p> <p>【Target Group】 (1) Individuals in a managerial position. (2) Individuals who have more than 5 years of occupational experience in the above field.</p>	
CONTENTS	PROGRAM PERIOD	Jan.19.2010 ~ Mar.6.2010
<p><Preliminary phase (activities in home country)> (1) Preparation of the County report</p> <p><Core Phase (activities in Japan)> (1) International framework of marine environment conservation (2) Outline of Japan coast guard (3) Outline of laws regarding marine environment in Japan (4) Activity for marine environment conservation (5) Assessment technique for vulnerability of environment (6) Actual condition of marine pollution in Japan (7) Marine disaster prevention (8) Analysis method of pollutant and oil and others (9) Regulatory measures for law violation of marine environment laws (10) Pollution survey method (11) PCM method (12) Formulation and presentation of the Action Plan</p> <p><Finalization Phase (activities in home country)> (1) Share and discuss the action plan in respective organizations (2) Modify the action plan (3) Formulate and submit the progress report and completion report</p>	IMPLEMENTING PARTNER	Japan Coast Guard, Japan Coast Guard Association
	JICA CENTER	JICA Okinawa
	COOPERATION PERIOD	2008~2010
	REMARKS	


Cleaner Production for productivity improvement and energy conservation on Maintenance management 設備管理における生産性向上と省エネのためのクリーナープロダクション		GROUP  0980885
		Environmental Management—Cleaner Production
		7 participants ★ / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Proposal is formulated for introducing of cleaner production technology in national organization and private company relating to energy plant and organization disseminating cleaner production.</p> <p>【Expected Results】 (1)1)Participants are able to explain the basic concept of cleaner production technology for productivity improvement and energy conservation. (2)2)Participants are able to explain the management measures for effective maintenance site and prevention of occupational and maintenance accident. (3)3)Participants are able to explain maintenance technology and training methodology for energy conservation and productivity improvement. (4)4)Participants are able to formulate action plan for introduction of cleaner production technology. (5)5)After returning within the due date of submission of the final report, the proposal (Action plan) created by participants is shared in the organization and discussed towards the realization and implementation</p>	National organization and private company relating to energy plant (ex.power plant) and organization disseminating cleaner production (ex.Cleaner production center)	
CONTENTS	PROGRAM PERIOD	Aug.5.2009 ~ Nov.28.2009
<p>This program aims to promote productivity improvement and energy conservation by formulating policy relating to Cleaner Production on maintenance management.</p> <p>(1)•Global environmental issue and basic knowledge of cleaner production •History and current situation of environmental management in Kitakyushu city •Necessity of maintenance management (2)•Management measures in productivity and maintenance site •Methodology of how-to advance and improve maintenance management in each element of job •Methodology for prevention of occupational and maintenance accident and risk management (3)•History and background of maintenance management for productivity improvement and energy conservation •Technology and Training methodology for maintenance management •Introduction of technology, methodology and supporting tool (4)• Job report presentation • Creating of Issue analysis sheet • Action plan presentation (5)•Presentation of proposal (Action plan) in participant's organization •Presentation for the final report</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2009~2011
	REMARKS	The first course in Aug.5.2009~ Nov.28.2009, and the second in Jan.11.2010~Apr.24.2010.

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p><Outcome> For the participants to become adequately knowledgeable about the fundamental of lake basin management, and to become able to play a major catalytic role in developing the needed governance framework</p> <p><Output> 1. Preliminary Lake Basin Report and Lake Basin Questionnaire are completed. 2. Participants are able to explain the resources of lakes and its utilization. 3. Participants are able to explain the challenges of governance in the field of Lake Basin management in general and in their respective country. 4. Participants are able to propose an draft action plan, to solve the problems/challenges which participants' organization are facing, by properly integrating the components of the governance framework involving institutions, policies, stakeholder participation, technological investments, information, financing and other considerations. 5. Draft Action Plans are shared and discussed by the participating organization</p>	<p><Target Organization> Division in National/Local government which is in charge of Management of Lakes and their basins</p> <p><Target Group> 1) Current Duties: be either technical officer in charge of lake/wetland water management (including management of rivers flowing into such water bodies) who are expected to assume executive administrative posts in that field or researchers in water quality and ecosystem management who are expected to take leading roles in guiding the lake/wetland management programs in their country. 2) Experience in the relevant field: more than five (5) years' occupational experience in the field 3) Age: be between twenty-five (25) and forty (40) years of age 4) Language: have a competent command of spoken and written English (This training course include active participation in discussions, action plan development, thus requires high competence of English ability)</p>	
CONTENTS	PROGRAM PERIOD	Jan.3.2010 ~ Mar.13.2010
<p>1. Orientation Lecture and Practice 2. Stage 1. Understanding the Resource Topic 1. Share Information about the State of Lakes Topic 2. Biophysical Characteristics Topic 3. Human Use of Lakes 3. Stage 2. Meeting the Governance Challenge Topic 4. Institution Topic 5. Incentives and Regulations Topic 6. Involving People Topic 7. Technological Response Topic 8. Information Topic 9. Finance 4. Stage 3. Synthesis (TBD) Topic 10. Plan to Action Topic 11. Towards the Future</p>	IMPLEMENTING PARTNER	INT'L LAKE ENVIRONMENT COMMITTEE FOUNDATION
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2005~2009
	REMARKS	<p>ILEC Homepage: http://www.ilec.or.jp/ Required to bring each country report contained on CD-ROM.</p>

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Participants' capability of formulation of comprehensive environmental management plans which take account of global environmental conservation frameworks and the concept of sustainable development as well as regionally based strategies to deal with pollution from industry and urban living is improved.</p> <p>【Outputs】 (Preparatory Phase in participants' home countries) 0) The country reports are formulated in participants' home countries. (Core Phase in Japan) 1) Based on the country reports and discussions, environmental issues in participants' countries are preliminary sorted out. 2) Understanding the scale of environmental problems and getting knowledge of the way how to solve the problems. 3) Draft Action Plans for countermeasures against environmental issues using knowledge and skills applicable for participating countries are formulated. (Finalization phase in participants' home countries) 4) The draft action plan is shared and examined in their respective organization.</p>	<p>【Target Organization】 Division in National/Local government with responsibility for planning, project design, or implementation of environmental policy</p> <p>【Target Group】 1) Current Duties: Engineers or administrative officials with central responsibility for planning, project design, or implementation of environmental policy 2) Experience in the relevant field: at least five (5) years' experience in the field of industrial/urban pollution control 3) Age: be between twenty-five (25) and forty-five (45) years of age</p>	
CONTENTS	PROGRAM PERIOD	May.6.2009 ~ Jul.4.2009
<p>In this program, the following major subjects will be covered through lectures, discussions and observation trips: (1) Countermeasure to environmental problem and its history (2) Environmental law system in Japan (3) Establishment of environmental standard and discharge standard (4) Monitoring of generation sources (5) Establishment of environmental management plan and regional pollution prevention plan (6) Environmental assessment (7) Sustainable development (8) Preservation of global environment</p>	IMPLEMENTING PARTNER	GLOBAL ENVIRONMENT CENTRE FOUNDATION
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2005~2009
	REMARKS	Through a 6 day programme, participants will get 50% points to get the international authorized environmental audit personnel including UNEP personnel.

Establishment of Sound Material Cycle Society For ASEAN Countries- Formulation of Practical Measures - アセアン地域 循環型社会の構築 -実践的な改善策の策定に向けて-		R/F  0984006
Target Countries: ASEAN		Environmental Management—Urban Solid Wastes 6 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Practical action plan related to 3R and environmental education at national and local level is formulated for promoting establishment of sound material cycle society.</p> <p>【Expected Results】 (1) Participants are able to explain the overview of the system for establishment of sound material cycle society in central and local government. (2) Participants are able to explain the measures to understand concrete efforts implemented by local government and private company (3) Participants are able to explain the environmental education activity with citizens implemented. (4) Participants are able to formulate action plan for introducing of practical 3R and environmental education activity. (5) After returning within the due date of submission of the final report, the proposal (Action plan) created by participants is shared in the organization and discussed towards the realization and implementation</p>	Central/local government and NGO relating to solid waste management, 3R and environmental education	
CONTENTS	PROGRAM PERIOD	Jan.15.2010 ~ Feb.28.2010
<p>This program aims to promote the 3R and environmental education by formulating practical action plans, toward the establishment of sound material society.</p> <p>(1) Introduction of legal system for sound material cycle, Introduction of 3R system and environmental management in Japan, Administration of industrial waste management, International waste material flow in Asian countries</p> <p>(2) Overview of eco town project, Separate collection in offices and household, Data collection and analysis for general waste, Hazardous waste treatment in hospital</p> <p>(3) Environmental education for citizens, River clean-up campaign by citizen, Composting activity for general waste</p> <p>(4) Job report presentation, Creation of Issue analysis sheet, Action plan presentation</p> <p>(5) Presentation of proposal (Action plan) in participants' organization, Presentation for the final report</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2009~2011
	REMARKS	

Industrial Pollution Control Management for Middle Eastern Countries 中東地域産業環境対策		R/F 	0984021
Target Countries: Middle East		Environmental Management—Other Environmental Management Issues	
		7 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objectives】 To help administrators engaged in the management of industrial environments understand the functions and roles which municipalities, research institutes and businesses should represent in the improvement of industrial environments, as well as the interplay between them, through looking at how industrial environments have been improved in Japan, and learn the skills required to establish effective policies for administrative guidance using pollution prevention techniques, facility management strategies, and administrative measures.</p> <p>【Outputs】 (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 understand measurement of environmental pollutants and their affect on the human body and the nature, and propose a solution for the issue. (5) To master environment improvement technique, and propose a practical action plan for the department. to which participants belong</p>	<p>【Target Organization】 Government Organization in charge of Industrial Pollution Control</p> <p>【Target Group】 1) Current Duties: be a technical administrator in charge of industrial pollution control. 2) Experience in the relevant field: have more than 3 years' occupational experience in the field of industrial pollution control 3) Educational Background: be a graduate of university, majoring in engineering or the equivalent. 4) Language: be competent in spoken and written English</p>		
CONTENTS	PROGRAM PERIOD	Jan.11.2010 ~ Apr.28.2010	
<p>1. Preliminary Phase in a participant's home country Preparation of Issue Analysis Sheet</p> <p>2.Core Phase in Japan (Lecture, practice and/or field study) (1) Air pollution control administration and pollution control technologies, (2) Water pollution control administration and pollution control technologies, (3) Waste treatment administration and effective treatment technologies, (4) Measurement of environmental pollutants and their effects upon the human body and the natural world, and (5) Environmental improvement techniques, and design of an environmental improvement activity plan to suit an issue in the participant's home country.</p> <p>3. 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 by March, 2009 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	2006~2010	
	REMARKS		

Waste Management Technologies and 3Rs for Central and South American Countries 中南米地域 廃棄物処理技術および3R		R/F 	0984026
Target Countries: Central and South America		10 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>To acquire knowledge/skills of waste management(Disposal and 3R) and formulate Action Plans to improve waste management system in the participant's respective countries.</p> <p>(1)To learn waste disposal technologies and 3R policy in Japan (2)To learn the roles/functions among organizations/stakeholders concerned to develop sound material-cycle society (3)To propose feasible "Action Plan" for proper disposal of waste by making the best use of the learnt knowledge/technologies (4)To establish the participants' network in order to exchange relevant information/knowledge after completion of the program in Japan</p>	<p>1) Technical or administrative personnel in central or local governments in the field of waste management and the 3Rs (Reduce, Reuse and Recycle) 2) Individuals with at least 5 years of practical work experience 3) University graduates or equivalent in sciences</p>		
CONTENTS	PROGRAM PERIOD	Aug.11.2009 ~ Sep.25.2009	
<p><Preparatory Phase> Formulation of Country Report <Curriculum in Japan> 1) Waste management administration - Collection and transportation of waste on the city level - The 3R policy (the 3R Initiative) - Transition of waste management administration in Japan 2) Waste treatment techniques - Industrial waste treatment techniques (intermediate, final disposal) - Recycling and composting techniques 3) Public awareness - Environmental education - Discussions with citizens <Finalization Phase> Implementation of the Action Plan and the report of the progress.</p>	IMPLEMENTING PARTNER	Japan Environmental Sanitation Center and Environmental Affairs Bureau, City of Sapporo	
	JICA CENTER	JICA Sapporo	
	COOPERATION PERIOD	2007~2009	
	REMARKS		

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 In the organizations in charge of water quality monitoring and management, recommendation paper will be presented on improvement of technical standard for administrating area and also on vast water area management.</p> <p>【Expected Results】 (1) Understanding Japanese laws, regulations, standards on water issue. (2) Finding the way of improvement on the accuracy management on water quality monitoring. (3) Being able to process the Analysis Result and Wide-area Water Quality Monitoring System (4) Understanding others' sense of value over the utilization of shared rivers/lakes. (5) Take the recommendation report into an action.</p>	Ministry, State Committee for Environment Protection or Nature Protection.	
CONTENTS	PROGRAM PERIOD	Nov.1.2009 ~ Dec.2.2009
(1)Lectures on general information on water quality control policy. Inception report presentation on the actual status and problems on water quality monitoring in Central Asia. (2)Review of Current Water Quality Monitoring Technology and Improvement of Accuracy Management (3)Data process and application towards compiling database and preparation for setting up GIS in order to utilize the information for further research and policy making. Also, to understand the importance of information disclosure and sharing. Some treatment technology will be introduced. (4)utilize the water monitoring as process for wide-area environmental conservation and proactive water resource for shared use with the understanding of different situation and opinions of other participants. Its process and challenging issue will be summarized and presented as A/P. (5)Participants will prepare a report about the advance of activities with the fruit of training in Japan in 6 months after the return. Besides, making a conference to solve the problems mentioned in the report.	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2009~2011
	REMARKS	


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Under the theme of the waste disposal problem which is the common characteristic in Oceanian countries, ESD promotion plan will be formulated as suit the each countries' condition.</p> <p>【Outputs】 (1)To understand the Japan's environmental policy and projects. (2)To understand the education for community and human development in a sustainable way through environmental issues. (3)To understand waste disposal problems, international trends and an environmental education. (4)To learn planning of problem solution and business promotion method utilizing the regional characteristics. (5)To formulate action plans for sustainable development of a region in each country.</p>	<p>【Target Organizations】 Ministries related ESD (such as Ministry of Environment, Education, Economy, Foreign Affairs and so on)</p> <p>【Target Group】 1)Current Duties: be an officer, technical officers in the administrative bodies who is presently engaged in the field of environmental policy or environmental education (Participants from not only the Ministry of Environment and Education but also other ministries and agencies are acceptable) 2) Educational Background: be equal or surpassing to a graduate of university 3)Age: be between the ages of twenty-six (26) and forty (40) years</p>	
CONTENTS	PROGRAM PERIOD	Oct.5.2009 ~ Oct.30.2009
<p>Output(1) •To take lectures about outline of basic environment plan of central and local government in Japan. •To take lectures about autonomy's activities from Nishinomiya City.</p> <p>Output(2) •To take lectures about basic notion of ESD •To visit the sites of education and activity of ESD in Nishinomiya City</p> <p>Output(3) •To visit Nishinomiya Waste Treatment Facility and private waste treatment facility •To take lectures about economic activity related to waste products and international trend</p> <p>Output(4) •Visit a school and local community to learn environmental education for waste products •To have a workshop of business solution about regional development</p> <p>Output(5) To make up an action plan through a workshop</p>	IMPLEMENTING PARTNER	Learning and Ecological Activities Foundation for Children
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS	Three (year-on-year) objectives are set for each year's training. And utilize ex-participants to the next year's training to make linkage among 3 year's training.

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Participants will understand knowledge and techniques regarding cleaner production aiming to develop an action plan to promote cleaner production activities in their countries.</p> <p>【Outputs】 (1) To understand the definition, concept, necessity, role of governmental and private sector regarding cleaner production. (2) To understand the knowledge and techniques regarding technology to minimize environmental impact. (3) To understand the knowledge and techniques regarding energy conservation technology. (4) To understand the knowledge and techniques regarding resource saving technology. (5) To understand the knowledge and techniques regarding recycling technology.</p>	<p>【Target Organizations】 Enterprise including former national enterprise in energy consumption industry, governmental organization in charge of cleaner production, environment</p> <p>【Target Group】 (1) Individuals from above-mentioned organization (2) Individuals with more than 5 years occupational experience in this field</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Oct.12.2009 ~ Nov.21.2009</p>
<p>(1) Definition, concept, necessity, role of governmental and private sector regarding cleaner production, Green productivity, Public awareness activity, Environmental law, Recycling society and global issue, Environmental administration and monitoring system, Inspection and guidance system for private sector (2) Zero emission, Wastewater treatment (Plating waste), Exhaust emission control system, Reduce of solid waste, Environment impact assesment (3) Energy conservation and global issue, Energy conservation law and its enforcement in Japan, Energy management in a plant, Case study - Energy conservation activities in a plant, Energy consevetion technology on heating furnace, Machine condition diagnosis techniques (4) Production control, Program Evaluation and Review Technique (PERT), Quality Control using QC 7 tolls, Total Productive Management (TPM), Productivity and equipment maintenance, 5S activity (5) 3R(Reuse, Reduce, Recycle), Economy aspects of recycling, Support to private company for 3R, Reclaimer of scrap metal, Separation and collection of waste</p>	<p>IMPLEMENTING PARTNER</p>	<p>Kitakyushu International Techno-cooperative Association (KITA)</p>
	<p>JICA CENTER</p>	<p>JICA Kyushu</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p style="text-align: center;">REMARKS</p>	

Target Countries: 10 countries receiving ODA out of 13 EANET member countries

6 participants / English


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 To develop the ability of mid-level engineers who are involved in EANET activities in each countries, in order to improve each countries' abilities to monitor and evaluate the current situation of damage by acid deposition, reduce the pollutants caused for acid rain.</p> <p>【Outputs】 (1) To analyze damage and countermeasures of acid deposition in each countries (2) To understand Japan's history, experiences, current situation and countermeasures in this field (3) To improve the technique and accuracy of monitoring through practical trainings (4) To make action plans that answer to each countries' challenges</p>	<p>【Target Organizations】 Organizations engaging in the operation of the Acid Deposition Monitoring Network in each countries in East Asia (EANET)</p> <p>【Target Group】 <Position> An engineering official or researcher engaged in the issue of acid deposition or air pollution and also related to EANET activities. <Experience> Experience in the relevant field: have more than 3 years' experience in the field of environmental management <Others> Educational Background: be equal or surpassing to a graduate of university</p>	
CONTENTS	PROGRAM PERIOD	Oct.5.2009 ~ Dec.18.2009
<p>Output(1) To present country reports and discuss current situation and problems in each countries.</p> <p>Output(2) • To study the role of central government, local government and business enterprises and their countermeasures, development of legal systems. • To conduct field research at smoke generation facilities, smoke treatment facilities and air environment observation facilities.</p> <p>Output(3) • To learn skills of monitoring on wet and dry deposition, monitoring on soil, vegetation and inland aquatic environment, monitoring on air pollutant. • Exercise of quality management and quality control • Transportation of air pollutants and generation source inventory.</p> <p>Output(4) • To review the training • To formulate an action plan for solving problems analysed at the beginning. • To discuss for the regional cooperation in East Asia</p>	IMPLEMENTING PARTNER	Hyogo Environmental Advancement Association
	JICA CENTER	JICA Hyogo
	COOPERATION PERIOD	2008~2010
	REMARKS	The result of this training course is highly evaluated for capacity-building of participating countries at the EANET governmental conference.


Capacity Development for Adaptation to Climate Change –Climate Modering and Analysis アジア地域 気候変動への適応にかかる能力開発 一気候変動予測解析		R/F  0984141
Target Countries : Bangladesh, Thailand, Vietnam, Indonesia, Philippines		Environmental Management – Global Warming 5 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】</p> <ul style="list-style-type: none"> •to develop a capacity for adaptation to climate change, particularly forecast and impact assessment •in the first two years: be focused on climate change forecast where a technique of climate modeling based on the 'Earth Simulator' and a downscaling method will be learned •in the last year: impact assessment by using the climate change forecast and 	<p>【Target Organizations】 University of Technology and Engineering , Meteorological Institute</p> <p>【Target Group】 Meteorological Reseachers in charge of climate change model ilng</p>	
CONTENTS	PROGRAM PERIOD	May.20.2009 ~ Jun.20.2009
<p>(1)Lectures (a)Adaptation policy in Japan (b)Basic concept of Climate Change Model (c) and other related lectures</p> <p>(2)Exercise (a)Data analysis of Climate Change Model (b)Data modeling of Climate Change (c) and other related research</p>	IMPLEMENTING PARTNER	Meteorological Research Institute
	JICA CENTER	JICA Tokyo
	COOPERATION PERIOD	2008~2010
	REMARKS	Applicants are expected to nominate from same organization and/or person each year(3years) as far as possible


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総合管理		0984146
Target Countries: BV, CR, DN, EL, GU, HD, MX, NC, PM, PG, PE, VE, CB		Environmental Management—Urban Solid Wastes 15 participants / Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 Comprehensive master or related action plan on SWM will be planned then accordingly, the SWM system shall be improved. Thus, current problems/ challenges in the said field will be solved and recyclable society is further promoted in Central and South America.</p> <p>【Outputs】 1) To understand the present system and the characteristics of SWM administration to compare with their own and to extract hints for improvement 2) To understand various techniques and measures in waste treatment and recycling 3) To learn methods of environmental awareness raising through the experience of case study in waste management 4) To make and report Action Plans for improvement of SWM system in each country/ local administration including role or responsibility of participants themselves</p>	<p>【Target Organizations】 Central and local governments who are facing the solid waste problem in Central and South America. Local government officials are rather encouraged to participate in.</p>	
CONTENTS	PROGRAM PERIOD	May.20.2009 ~ Jul.4.2009
<p>Promoting SWM and Recycling oriented society for Central and South America, the training course aims to build capacity of administration board by learning characteristics and technology of SWM in Japan. The final goal is to compose and implement Action Plan to solve problem found, which hinders proper management of solid waste in each country.</p> <p>(1)-Recognition of conditions and/or problems in waste generation -General issued in SWM in Japan incl. Laws, regulations, the 3R initiative, collection and transportation and international Laws such as PRTR, etc. (2)-Site visits to waste treatment technologies, Reduce, Reuse and Recycle, and hazardous waste treatment -The concepts of Eco-town and Recycle business (3)-Strategic approach and Tool making for public awareness raising (4)-Making and Presentations on Waste management Masterplans and /or Action Plans (5)-Implementation of the Action Plan</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer (ICETT)
	JICA CENTER	JICA Chubu
	COOPERATION PERIOD	2008~2009
	REMARKS	


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 The participants are expected to improve/acquire the capacity to formulate and execute the policy and regulations in the field of air and water pollution control. (In JFY 2009, the program will focus on Air Pollution)</p> <p>【Outputs】 (1) to identify environmental problems of participating countries and obtain hints for the improvement of the situation (2) to learn from the experience of Osaka and other cities in Japan about air/water pollution and countermeasures thereof (3) to obtain applicable knowledge on environmental communication (4) to produce Action Plan while in Japan and explain it to stakeholders in respective countries after returning</p>	<p>【Target Organizations】 National/Local Governmental Organization engaged in Environmental Administration</p> <p>【Target Group】 Administrative Engineers working in National/Local Government Organizations</p>	
CONTENTS	PROGRAM PERIOD	Jan.11.2010 ~ Feb.27.2010
<p>【Preparatory phase (Before coming to Japan)】 • Participants are expected to write Country Report on the present situation and problems</p> <p>【Program in Japan】 (1) • At the Presentation of Country Report, through information exchange and discussion, participants obtain hints for improvement (2) • through lectures, practices and observation, participants gain knowledge on environmental management systematically, from identification, analysis, planning through guidance (3) • participants learn various methods of communication such as information disclosure, cooperation with stake holders, environmental education etc. (4) • participants are to discuss countermeasures to pollution problems of each country with co-participants and Japanese lecturers and produce an Action Plan as fruits of this program.</p> <p>【Post-program activities (After participants' return)】 • Within 3 months of the end of the program in Japan, participants/participating organizations are expected to implement the above Action Plan and report the progress in Completion Report.</p>	IMPLEMENTING PARTNER	Global Environment Centre Foundation
	JICA CENTER	JICA Osaka
	COOPERATION PERIOD	2008~2010
	REMARKS	In JFY 2009 the program will focus on Air Pollution.

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【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</p> <p>【Outputs】 (1) To observe the real state of Cleaner Production in Japan and to learn the method of executing Cleaner Production (2) To learn the basic technologies of engineering for process industries (3) To learn how to implement effective maintenance management and to acquire the useful technologies for it</p>	<p>【Target Organizations】 Organizations belonging to the field of process industries such as chemical, petroleum refinery, iron and steel, food and ceramic plant</p> <p>【Target Group】 Managers or engineers in the field of process industries</p>	
<p>CONTENTS</p>	<p>PROGRAM PERIOD</p>	<p>Aug.3.2009 ~ Nov.20.2009</p>
<p>(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.</p>	<p>IMPLEMENTING PARTNER</p>	<p>Kitakyushu International Techno-cooperative Association (KITA)</p>
	<p>JICA CENTER</p>	<p>JICA Kyushu</p>
	<p>COOPERATION PERIOD</p>	<p>2008~2010</p>
	<p>REMARKS</p>	<p>This seminar will be implemented twice for JFY 2008. The second one is scheduled from early Feb 2010 to late May 2010 in the same content. (The term of this training course is not yet determined.)</p>

Capacity Development of Host Countries of CDM/JI for Southeast European and CIS countries 南東欧・CIS地域京都メカニズム能力開発		R/F 	0984195
Target Countries: Southeast European and CIS countries		9 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Program Objective】 Participants will be enhanced the capabilities for efficient formulation of CDM/JI projects under the UN Framework Convention on Climate Change.</p> <p>【Expected Results】 (1) To understand the overview of the UNFCCC and the Kyoto Protocol, including the Kyoto Mechanisms such as CDM/JI and GIS (Green Investment Scheme). (2) To understand effective measures to promote CDM and JI. (3) To acquire skills to develop CDM/JI projects. (4) To strengthen a network among participating countries, as well as with major stakeholders in Japan. (5) To elaborate a report on plan of actions that would be implemented after returning home, in view of prioritized needs of each country.</p>	<p>【Target Organizations】 This course is designed for governmental organizations in charge of CDM or JI issues in Designated National Authorities (DNAs) for CDM, or Designated Focal Points (DFPs) for JI, or relevant national governmental offices.</p> <p>【Target Group】 - Administrative officers in charge of CDM or JI issues in DNA for CDM, or DFPS for JI, or relevant national governmental offices. - Experience in the relevant field: more than 3 years' experience.</p>		
CONTENTS	PROGRAM PERIOD	Aug.13.2009 ~ Sep.3.2009	
<p>【Preliminary Phrase】 Participants will make an Inception Report on the current situation of CDM/JI and problems in their country.</p> <p>【Program in Japan】 Participants are expected to understand the overall view of CDM/JI issue in order to fulfill the responsibilities stipulated by the UNFCCC through lectures, discussions, practical exercises and site visits. (1) The transition of effort for solving global warming issue, the role and mechanism of CDM/JI/GIS, and the policy on CDM/JI/GIS in Japan (2) The process of formulation and the way of proposition for CDM/JI projects (3) Exercise on drafting the projects of PDD in CDM/JI (4) Visiting the government-affiliated agency and the private company, and discussing with them about CDM/JI (5) Discussion for drafting action plan</p> <p>【Finalization Phase】 The action plans made during the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Six months after leaving Japan, participants will report the progress of the Final Report to JICA.</p>	IMPLEMENTING PARTNER	Overseas Environmental Cooperation Center, Japan	
	JICA CENTER	JICA Tsukuba	
	COOPERATION PERIOD	2007~2009	
	REMARKS	<p>【Related website】 <Kyoto Mechanism Information Platform> http://www.kyomecha.org/e/index.html</p>	

Waste 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		R/F 	0984246
Target Countries: Central and South America		18 participants /	Spanish
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p><Outcome> Effective and tangible action plan for preventing environmental destruction coming from hazardous substance included in the discharged water 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 (such as ministries and the local governmental offices)</p> <p><Output> 1) Country reports which summarizing problems and issues of waste effluent caused by mining and manufacturing industries are formulated in participants' respective countries 2) Problems and issues of systems and policies on waste effluent pollution control caused by mining and manufacturing industries in their respective countries will be sorted out through the case study in Japan. 3) Draft action plan will be formulated by respective countries 4) Draft action plan will be shared and examined in their respective countries</p>	<p>【Target Organizations】 Some ministries related to heavy industries, or basic industries integrated on petrochemistry, chemistry, mining, medicine, leather, metal finishing etc.....</p> <p>【Target Group】 Technologists on the administrative level • Individuals with more than 5 years vocational experiences in charge of hazardous chemical substances treatment (in enterprises, public organizations, etc.) • Individuals with official requests, majoring in chemistry, under 50 years old</p>		
CONTENTS	PROGRAM PERIOD	Nov.11.2009 ~ Dec.12.2009	
<p>This course is designed for participating countries to recognize the negative impacts of hazardous substances on environments and human bodies, and propose effective measures to reduce or prevent the environmental disruption or deterioration of environment caused by these substances.</p> <p>〈Preparatory Phase in participants' home countries〉 Formulation of country reports by team of 3 members in each country. 〈Core phase in Japan〉 Participants will learn following items through lectures, observations and discussion</p> <p>① Generating mechanism, countermeasures and compensation issue of pollution-related diseases (based on Japanese experience) ② Effect of hazardous substances on human body ③ Overview of pollution due to hazardous substances ④ Laws and regulations for environmental management ⑤ Environmental measures by local governments ⑥ Environmental protection measures and technologies in chemical industries ⑦ Cleaner production technologies ⑧ Sharing the problems, draft Action Plan presentation and discussion 〈Finalization Phase in participants' home countries〉 Sharing and developing Action Plan, Report to JICA regional office</p>	IMPLEMENTING PARTNER	Global Environment Center Foundation	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2007~2009	
	REMARKS		

Promotion of Project Formulation of Clean Development Mechanism in Central Asia and Caucasus Region 中央アジア・コーカサス地域 クリーン開発メカニズム案件形成促進		R/F 	0984280
Target Countries: The countries which are NOT on ANNEX I of Kyoto Protocol.		4 participants /	Russian
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 The formulation and registration of CDM projects will be promoted in the respective countries.</p> <p>【Expected Results】 (1)To grasp the problems which the CDM related organizations in their countries have in the process of project formulation (before coming to Japan). (2)The system to provide information for the stakeholders of CDM projects will be established in the respective DNAs. (the 1st year) (3)The guideline for the formulation of CDM projects considering the situations of the respective countries will be drafted. (the 2nd year) (4)The system to provide the consultation for the registration of CDM projects will be established in the respective DNAs. (the 3rd year) (5)To contribute to the solution of the problems which CDM related organizations have, with fruits of the training program in Japan (after going back to participants' own countries).</p>	Designated National Authorities (DNA) or other corresponding organization like National Focal Points (NFP) and CDM related offices.		
CONTENTS	PROGRAM PERIOD	Nov.23.2009 ~ Dec.23.2009	
<p>To solve the problems which CDM related organizations have in the process of project formulation.</p> <p>(1)To clarify the starting point of the training course and To prepare for the practice PDD in Japan. (2)To learn the roles of developing countries in the process of CDM project formulation, registration, and implementation. To frame a PDD in practice. (3)To discuss the way to register CDM projects more easier through sharing PDD which is made in Output 2 and good/bad practices which is collected in participants' country. (4)To learn the perspectives and the measures of Japanese Industry, Private Sector, Ministries and Agencies of the government for the CDM projects. To visit sites (plants, etc.) where efforts for the energy/resources conservation is actually implementing. (5)To frame and present an action plan based on the fruit of the course to solve the problems which are analyzed in Output 1. To aim at the implementation of the action plan which is elaborated in the end of the course in Japan, involving the organization that the participants are belong to.</p>	IMPLEMENTING PARTNER	International Center for Environmental Technology Transfer	
	JICA CENTER	JICA Chubu	
	COOPERATION PERIOD	2009~2011	
	REMARKS		

Air pollution source management 大気汚染源管理		R/F  0984286
Target Countries: Algeria, China, Egypt, Honduras, and Mongolia		Environmental Management—Air Pollution/Acid Rain 8 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Policy related to air pollution source management at own organization is formulated for promoting air pollution management.</p> <p>【Expected Results】 (1) Participants are able to explain the overview of the administrative system for air pollution prevention. (2) Participants are able to explain the overview of monitoring and analysis method implemented. (3) Participants are able to explain the overview of technology for air pollution prevention to visit government of local government and private companies. (4) Participants are able to formulate action plan for introducing of air pollution source management. (5) After returning, the proposal (Action plan) created by participants is shared in the organization and discussed towards the realization and implementation</p>	Environmental management department at central/local government	
CONTENTS	PROGRAM PERIOD	Oct.15.2009 ~ Dec.15.2009
<p>This program aims to promote air pollution management at central/local government by formulating proper policy relating to air pollution source management.</p> <p>(1) • History of industrial pollution and health effects of air pollution • Law system of air pollution prevention, Plant Inspection system in Kitakyushu city • Anti-air pollution measures for automobile exhaust gas • Environmental education (2) • Air pollution monitoring system in Kitakyushu city • Monitoring and analysis of air pollution substance • Measurement of automobile exhaust gas</p> <p>(3) • Technology of dust collection and control of Sulfur and Nitrogen oxides • Visit to steel company and thermal power station (4) • Job report presentation • Lecture of Project cycle management, Instruction for creating Action plan and Issue analysis sheet • Action plan presentation (5) • Presentation of proposal (Action plan) in participants' organization • Presentation for the final report</p>	IMPLEMENTING PARTNER	Kitakyushu International Techno-Cooperative Association
	JICA CENTER	JICA Kyushu
	COOPERATION PERIOD	2009~2011
	REMARKS	

Target Countries: Countries which face serious problem of automobile pollution


9 participants / English


OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 Capacity of participating organization on making plans countermeasures for automobile pollution is improved.</p> <p>【Expected Results】 (1)The situation reports which summarizing problems and issues of countermeasures against automobile pollution are formulated and based on the situation reports and discussions, participants are able to analyze problems and issues of countermeasures against automobile pollution. (2)Participants are able to explain about countermeasures against automobile pollution in the case of Japan. (3)Participants are able to explain how to measure, monitor and control air pollutant exhausted by automobile, (4)Participants are able to explain about city planning and education programs which are effective in prevention of automobile pollution. (5)Draft training plans for dissemination of applicable knowledge and skills about countermeasures against automobile pollution are formulated, shared and examined in their respective organization.</p>	<p><Target Organization> Division in national/local government which in charge of policy planning on countermeasure against automobile pollution in urban area</p> <p><Target Group> 1) Administrative/Technical officers in charge of policy planning on countermeasure against automobile pollution in urban area 2) Experience in the relevant feild: have more than 3 year's experience</p>	
<p>CONTENTS</p>	<p>PROGRAM PERIOD</p>	<p>Sep.30.2009 ~ Nov.15.2009</p>
<p>This training is designed for deepen understandings of automobile emissions and for strengthening capacity on making plans countermeasures for automobile pollution.</p> <p>(1)Formulation of the situation reports summarizing problems and issues of countermeasures against automobile pollution in participants' respective countries •Presentation/discussion of situation reports •Determination/sharing of the needs of each participants •Workshop on training plan making and sorting out and analyzing the problems/issues in order of importance (2) •Lectures on overview/history of countermeasures against automobile pollution based on the case study from Osaka area (focusing on methods, relation with resident etc.) •Lectures on legal structure related to automobile pollution •Air diffusion, figuring out the amount of emission •Automobile pollution prevention plan in Osaka, EIA etc. (3)• Practical work on measurement of auto emission, figuring out the amount of emission •Site visit to constant monitoring facilities, emission experiment facility using real cars etc. (4)•Lectures on City Planning aiming at Environmentally Sustainable Transport (EST) (traffic survey, simulation, countermeasures against traffic jams, etc.) •Lectures on education for resident (Mobility Management Program, Eco driving etc.) (5)•Formulation of "draft training plans for dissemination of applicable knowledge and skills about countermeasures against automobile pollution •Presentation/discussion of the draft training plans •Holding workshops to share and examine the draft training plan in participants' respective organization. •Finalization of draft training plans.</p>	<p>IMPLEMENTING PARTNER</p>	<p>Global Environment Centre Foundation</p>
	<p>JICA CENTER</p>	<p>JICA Osaka</p>
	<p>COOPERATION PERIOD</p>	<p>2009~2011</p>
	<p>REMARKS</p>	<p>This program is aiming at strengthening capacity of organization as well as individuals through 3 year's program. It is desirable that participants are selected from the same organization through 3 yer as in order to have smooth communication among participants from differnet year.</p>

Target Countries: Only Chile

4 participants / Spanish

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The action plan for promoting the environmental education model which developed in the JICA technical cooperation project at each municipality will be shared in the trainee's organization.</p> <p>【Expected Results】 (1) Through formulation and presentation of job reports and following discussion, trainees can clarify the challenges for promoting environmental education in their areas. (2) Trainees can explain the concept of ESD (Education for Sustainable Development) and current situation of ESD in Japan. (3) Trainees can explain the activities related to environmental education in Nishinomiya City. (4) Through the outputs (1)–(3), trainees can figure out their challenges and formulate action plans to solve them. (5) (After the fact) Trainees can develop their action plans after they go back and share in their organizations.</p>	CONAMA, City Government	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	Feb.8.2010 ~ Feb.26.2010
<p>This training aims to formulate plans for introduction of environmental education through learning the case of Nishinomiya City.</p> <p>(1) To formulate and present job reports (2) • The workshop for basic understanding of ESD • Lectures of current situation of ESD in Japan (3) • Lectures of an environmental policy in Nishinomiya City • To visit schools for viewing the environmental learning • To visit waste disposal centers and private businesses' activities for waste reduction • Discussion with Eco-community members (4) • To study a method of action plan formulation • To formulate and present action plans</p>	<p style="text-align: center;">IMPLEMENTING PARTNER</p>	Learning and Ecological Activities Foundation for Children (LEAF)
	<p style="text-align: center;">JICA CENTER</p>	JICA Hyogo
	<p style="text-align: center;">COOPERATION PERIOD</p>	2009~2011
	<p style="text-align: center;">REMARKS</p>	

Sustainable solid waste management in Caribbean islands カリブ島嶼国における持続可能な廃棄物管理		R/F  0984305
Target Countries: Caribbean countries		Environmental Management—Urban Solid Wastes 6 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The issues on sustainable solid waste management in small islands which participating organization are facing will be directed, and the practical measures to the issues will be formulated.</p> <p>【Expected Results】 (1) Issues on sustainable solid waste management in participating country will be solved. (2) Issues on sustainable solid waste management will be solved, regarding Okinawa's case. (3) Issues on establishing participatory solid waste management will be solved. (4) To be able to formulate an institutional action plan which aims for solving a issue in sustainable waste management. (5) The action plan will be shared and submitted in participating organization.</p>	<p>【Target Organization】 Ministries, Agencies and NGOs concerned with solid waste management</p> <p>【Target Group】 1) Current Duties: Be involved (currently or possibly in the near future) in solid waste management 2) Experience in the relevant field: have more than five (5) years' practical experience in the above field</p>	
CONTENTS	PROGRAM PERIOD	Nov.10.2009 ~ Dec.12.2009
<p><Preliminary phase (activities in home country)> (1) Formulation and presentation of Job Report</p> <p><Core Phase (activities in Japan)> (1) •Legislation, ordinance •Administration project •Industrial and hazardous waste management •Current condition and issues of incineration processing •Current condition and issue of final disposal sites •Circulation route of recycling •Financial burden of local community (2) •Necessity for citizens and companies to cooperate •Collection of garbage by type through citizens and companies cooperation •Environmental education (Waste management game, Shopping game) (3) •Discussion on necessary resources for sustainable 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</p> <p><Finalization Phase (activities in home country)> (1) Share and discuss the action plan in respective organizations (2) Modify the action plan (3) Formulate and submit the progress report and completion report</p>	IMPLEMENTING PARTNER	Okinawa Recycle Society
	JICA CENTER	JICA Okinawa
	COOPERATION PERIOD	2009~2011
	REMARKS	

Workshop for enhancement of the governmental capacity on water environment in Asian countries アジア水環境ガバナンス強化ワークショップ		R/F 	0984278
Target Countries: 10 countries in South East Asia and East Asia which take part in WEPA		5 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 For strengthening capacities for enforcement in water environmental management in each countries, to propose solution for these, through information sharing among executive officers and environmental analysts.</p> <p>【Expected Results】 (1)Share the system, technical level, monitoring system, issue of water management in each country to build common awareness among participators (2)Understanding the administration on water management in Japan (3)Perceiving the status of the implementation of a local government activities on water management (4)Arrange common tasks and Specific challenge in each country with sharing the information of water environment system among participator</p>	Related organization in the field of water environmental management		
CONTENTS	PROGRAM PERIOD	Nov.23.2009 ~ Dec.5.2009	
<p>Enhance the capacity of handling skill on water pollution at political level in south East Asia and East Asia countries with improving the partnership among these countries</p> <p>(1)•Inception-Report •Introduce a kind of activities on development water environmental laws and monitoring system in each country (2)•Lecture (about water environmental law established in Japan) •A workshop on environmental monitoring system in each country reported by each administrator (3)•Lecture (water environmental monitoring system established in Japan) •A workshop on environmental monitoring system in each country reported by each environment analyst (4)•Problem Analysis Discussion •Problem Analysis Workshop •Propose an Action-Plan (5)•Action plan and Progress report</p>	IMPLEMENTING PARTNER	Institute for Global Environmental Strategies	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2009~2011	
	REMARKS		