9.Natural Resources and Energy

Tropical Biomass Utilization		GROUP	0880032
熱帯バイオマス利用	Natural Reso	ources and Energy—Re	newable Energ
Target Countries: Tropical/sub-tropical countries		4 participants /	English
OBJECTIVE	TARG	ET ORGANIZATION / O	ROUP
To enable participants to learn methods of measuring the endowment of biomass and the possible amount of utilization, and designing effective ways of using it. To reach the objective, participants are expected to achieve the following: (1) To understand approaches to create a re-cycling oriented society, referring to the concepts of Biomass Nippon and the Biomass Asia Programs. (2) To understand methods of estimating unused biomass resources, planning of utilization systems and their evaluation. (3) To understand individual technologies; e.g. biomass production, collection, transportation, conversion, and monitoring, to formulate a biomass utilization plan.	 [Target Organizations] Engaged in the planning, promotion and u of biomass [Target Group] (1) Individuals with at least 3 years of exp in the field of above mentioned (2) University graduates in the field of sci (3) Individuals 25–35 years of age 		
CONTENTS	PROGRAM PERIOD	Sep.30.2008~Dec.6.200)8
<preparatory phase=""> Formulationg a coutry report describing the present situation of Biomass utilization in the participant's country and the role of their rganization. <program in="" japan=""> This program consists of lectures, practical exercises,</program></preparatory>	IMPLEMENTING PARTNER	FACULTY OF AGRICU	JLTURE, RYUKYUS
report-making, presentation, and observation tours.	JICA CENTER	JICA Okinawa	
(1) Acquire methods for designing a recycling society and biomass utilization system and approaches for designing recycling societies which utilize biomass	COOPERATION	2005~2009	
(such as 'Biomass Nippon', 'Concept of Biomass Town'), estimating the amount of endowment and production of biomass, designing a biomass utilization system and evaluating the impact of biomass utilization.	PERIOD	2000 2003	
(2) Acquire methods for measuring the biomass resources, a planning technique for a biomass utilization system and techniques for evaluating the effect of biomass.(3) Acquire specific techniques related to the design of biomass utilization systems, biomass production and collection methods for unused biomass resources, biomass energy conversion, utilization of biomass transforming materials, and the measurement, monitoring and evaluation of biomass utilization.	REMARKS		
Small-Scale Hydro Power and Clean Energy Power Engineering		GROUP	0880860
小水力及びクリーンエネルギー発電技術	Natural H Private Sector	Resources and Energy- Development—Industr 10participants /	-Energy Suppl ial Technolog English
OBJECTIVE	TARG	ET ORGANIZATION / C	ROUP
The objective of this program is to improve knowledge and skills on electric power facilities management, from the stages of planning, designing, maintenance, up to operation, in the field of hydroelectric power generation, to make a concrete improvement plan. Expected Results: (1) To learn the procedure for planning hydroelectric power generation (2) To acquire management techniques for the maintenance and operation of small hydropower generation facilities (3) To understand the environmental impacts and effects of renewable energy in general (4) To make a business improvement plan for the participant's organization, based on the above-mentioned experience and knowledge	[Target Organizations] (1) Government agencies in charge of electric power, electric power corporations, electric pow generation corporations, and other related organizations (2) Particularly organizations in charge of the planning, maintenance, and operation of small hydropower stations [Target Group] Those in charge of small-scale hydro generation and civil, electrical, or mechanical engineers with at least 5 years of experience. To be university graduates in an engineering discipline or the equivalent, and proficient in English.		
CONTENTS	PROGRAM PERIOD	Sep.1.2008~Oct.4.2008	}
 Pre-training program (1)Creation of country and job reports 	IMPLEMENTING PARTNER	CHUBU ELECTRIC PO INC.	WER CO.,
2. Training program in Japan	JICA CENTER	JICA Chubu	
(1) Historical background of the electricity business and hydroelectric power generation in Japan(2)Research, planning and design of small hydropower plants	COOPERATION PERIOD	2004~2008	
 (3)Operation and maintenance of small hydropower plants (4)Introduction to planning for renewable energy (solar power and wind power) (5)Framework of Clean Development Mechanism (6) Observation (a) Small hydropower sites (b) Manufacturer of generating sets 	REMARKS	Countries working or electrification/ renew (hydroelectric power, have or plan to build	vable energy) and which

- (6) Observation (a) Small hydropower sites
- (b) Manufacturer of generating sets
- (c) Observation travel

hydroelectric power stations (around 30 MW) are preferable.

Sustainable Development of Mining 鉱山開発と持続可能な成長		GROUP 🚺 0880882	
	Na	atural Resources and Energy—Mining	
		18 participants / English	
OBJECTIVE The group training program in the Sustainable Development of Mining is designed for engineers and technicians, in order to upgrade their knowledge and skills in the sustainable development of mining, and thus contribute to the prevention of mining-related pollution problems and sustainable mineral development in developing countries. Through the program, participants are expected : 1) To gain an understanding of the present circumstances of the mining industry and mine pollution control activities, 2) To deepen and broaden their knowledge of exploration/mining/mineral processing, metallurgy/recycling, and 3) To obtain knowledge and technology for the prevention of mining-related pollution problems and sustainable mineral development in the future rather than at present.	 TARGET ORGANIZATION / GROUP (1) Individuals having majored in Engineering or equivalent, (2) Engineers or Technicians in mining geology, mining, mineral processing or metallurgy in the field of mining development and with more than 5 years of practical experience, (3) Individuals under approx. 40 years old, (4) Individuals proficient in English, especially reading comprehension, (5) Individuals in good health. Pregnant women an inappropriate. 		
CONTENTS	PROGRAM PERIOD	Aug.13.2008~Nov.16.2008	
 Lectures related to: Issues for Sustainable Development of Mine Mine exploration and Environmental issues 	IMPLEMENTING PARTNER	INTERNATIONAL INSTITUTE FOR MINING TECHNOLOGY	
 Exploration and Environmental Prevention Technology Mineral Processing, Metallurgy and Recycling of Metals 	JICA CENTER	JICA Tohoku	
 Mineral Processing, Metallurgy and Recycling of Metals 2. Field trips Mine Drainage Neutralization Plant 	COOPERATION PERIOD	2004~2008	
 Smelter and Refinery Mines Recycling Plants Country Report presentation Statistics of Each Economy and Mining Production Mining Policy 	REMARKS	The course is inappropriate for those who handle coal mining and/or iron ore, because its contents are specially arranged for a metal field.	
Plant Engineering and Technical Standard for Refineries, Chemical and Thermal Power Plants (Pressure Vessels, Storage Tanks, and Others)	Network	GROUP 🚺 0880983	
Plant Engineering and Technical Standard for Refineries, Chemical and Thermal Power Plants (Pressure Vessels, Storage Tanks, and Others) 石油、化学及び火力発電プラントの設備管理と技術基準	Natural F	Resources and Energy—Energy Supply	
Power Plants (Pressure Vessels, Storage Tanks, and Others)			
Power Plants (Pressure Vessels, Storage Tanks, and Others) 石油、化学及び火力発電プラントの設備管理と技術基準	TARG *Government regulations for private compa *Persons who technical stan	Resources and Energy—Energy Supply 6 participants / English	
Power Plants (Pressure Vessels, Storage Tanks, and Others) 石油、化学及び火力発電プラントの設備管理と技術基準 OBJECTIVE [Objective] To obtain comprehensive knowledge of setting standards and inspection techniques/application for the safe operation of refineries, chemical, and thermal power plants in developing countries, in order to appropriately set standards for plant management. Upon successful completion of the course, the participants will: 1. understand laws/regulations and design/fabrication standards for refineries, chemical and thermal power plants in Japan and other countries; 2. acquire design and fabrication techniques by understanding the strength and design of pressure facilities; 3. acquire inspection techniques by understanding an annual and daily maintenance criteria on the installed pressure facilities and others; 4. understand safety measures and security systems for pressure vessels; and 5. make an operational improvement plan (tentative) for their workplaces, based on	TARG *Government regulations for private compa *Persons who technical stan maintenance c	Resources and Energy—Energy Supply 6 participants / English ET ORGANIZATION / GROUP officers who are in charge of plant r government-affiliated agencies, nies, or others are in charge of plant engineering, dard, design, fabrication, or	
Power Plants (Pressure Vessels, Storage Tanks, and Others) Taik. 化学及び火力発電プラントの設備管理と技術基準 OBJECTIVE [Objective] To obtain comprehensive knowledge of setting standards and inspection techniques/application for the safe operation of refineries, chemical, and thermal power plants in developing countries, in order to appropriately set standards for plant management. Upon successful completion of the course, the participants will: 1. understand laws/regulations and design/fabrication standards for refineries, chemical and thermal power plants in Japan and other countries; 2. acquire design and fabrication techniques by understanding the strength and design of pressure facilities; 3. acquire inspection techniques by understanding an annual and daily maintenance criteria on the installed pressure facilities and others; 4. understand safety measures and security systems for pressure vessels; and 5. make an operational improvement plan (tentative) for their workplaces, based on techniques, knowledge, and experience obtained from the training. (1) Outline of Japanese Law (2) Design and fabrication standards for pressure vessels, etc.	TARG *Government regulations for private compa *Persons who technical stan- maintenance of and others	Resources and Energy—Energy Supply 6 participants / English ET ORGANIZATION / GROUP officers who are in charge of plant government-affiliated agencies, nies, or others are in charge of plant engineering, dard, design, fabrication, or of pressure vessels, storage tanks,	
Power Plants (Pressure Vessels, Storage Tanks, and Others) 五油、化学及び火力発電プラントの設備管理と技術基準 OBJECTIVE [Objective] To obtain comprehensive knowledge of setting standards and inspection techniques/application for the safe operation of refineries, chemical, and thermal power plants in developing countries, in order to appropriately set standards for plant management. Upon successful completion of the course, the participants will: 1. understand laws/regulations and design/fabrication standards for refineries, chemical and thermal power plants in Japan and other countries; 2. acquire design and fabrication techniques by understanding the strength and design of pressure facilities; 3. acquire inspection techniques by understanding an annual and daily maintenance criteria on the installed pressure facilities and others; 4. understand safety measures and security systems for pressure vessels; and 5. make an operational improvement plan (tentative) for their workplaces, based on techniques, knowledge, and experience obtained from the training. CONTENTS (1) Outline of Japanese Law (2) Design and fabrication standards for pressure vessels, etc. (3) Strength design (4) Material design	TARG *Government regulations for private compa *Persons who technical stan- maintenance of and others PROGRAM PERIOD	Resources and Energy—Energy Supply 6 participants / English ET ORGANIZATION / GROUP officers who are in charge of plant government-affiliated agencies, nies, or others are in charge of plant engineering, dard, design, fabrication, or of pressure vessels, storage tanks, Sep.29.2008~Nov.22.2008 AICHI INDUSTRIAL RESEARCH	
Power Plants (Pressure Vessels, Storage Tanks, and Others) 石油、化学及び火力発電プラントの設備管理と技術基準 OBJECTIVE [Objective] To obtain comprehensive knowledge of setting standards and inspection techniques/application for the safe operation of refineries, chemical, and thermal power plants in developing countries, in order to appropriately set standards for plant management. Upon successful completion of the course, the participants will: 1. understand laws/regulations and design/fabrication standards for refineries, chemical and thermal power plants in Japan and other countries; 2. acquire design and fabrication techniques by understanding the strength and design of pressure facilities; 3. acquire inspection techniques by understanding an annual and daily maintenance criteria on the installed pressure facilities and others; 4. understand safety measures and security systems for pressure vessels; and 5. make an operational improvement plan (tentative) for their workplaces, based on techniques, knowledge, and experience obtained from the training. (1) Outline of Japanese Law (2) Design and fabrication standards for pressure vessels, etc. (3) Strength design (4) Material design (5) Fabrication control (6) Maintenance	TARG *Government regulations for private compa *Persons who technical stand maintenance of and others PROGRAM PERIOD IMPLEMENTING PARTNER	Resources and Energy—Energy Supply 6 participants English ET ORGANIZATION / GROUP officers who are in charge of plant • government-affiliated agencies, nies, or others are in charge of plant engineering, dard, design, fabrication, or of pressure vessels, storage tanks, Sep.29.2008~Nov.22.2008 AICHI INDUSTRIAL RESEARCH	
Power Plants (Pressure Vessels, Storage Tanks, and Others) 石油、化学及び火力発電プラントの設備管理と技術基準 OBJECTIVE [Objective] To obtain comprehensive knowledge of setting standards and inspection techniques/application for the safe operation of refineries, chemical, and thermal power plants in developing countries, in order to appropriately set standards for plant management. Upon successful completion of the course, the participants will: 1. understand laws/regulations and design/fabrication standards for refineries, chemical and thermal power plants in Japan and other countries; 2. acquire design and fabrication techniques by understanding the strength and design of pressure facilities; 3. acquire inspection techniques by understanding an annual and daily maintenance criteria on the installed pressure facilities and others; 4. understand safety measures and security systems for pressure vessels; and 5. make an operational improvement plan (tentative) for their workplaces, based on techniques, knowledge, and experience obtained from the training. CONTENTS (1) Outline of Japanese Law (2) Design and fabrication standards for pressure vessels, etc. (3) Strength design (4) Material design (5) Fabrication control	TARGI *Government regulations for private compa *Persons who technical stan maintenance of and others PROGRAM PERIOD IMPLEMENTING PARTNER JICA CENTER COOPERATION	Resources and Energy—Energy Supply 6 participants English ET ORGANIZATION / GROUP officers who are in charge of plant • government-affiliated agencies, nies, or others are in charge of plant engineering, dard, design, fabrication, or of pressure vessels, storage tanks, Sep.29.2008~Nov.22.2008 AICHI INDUSTRIAL RESEARCH ASSOCIATION JICA Chubu	

🖞 : Learning Program, 🎁 : Diffusion Program, 👁 : Solution Program, 🍞 : International Dialogue Program

Power Sector Development for Central Asia and Caucasus Region 中央アジア・コーカサス地域 雪カセクター開発

中天アンア・コーカリス地域 電力セクター開発 	Natural F	Resources and Energy—Energy	/Supply
Target Countries:Central Asia		9 participants / R	ussian
OBJECTIVE	TARG	ET ORGANIZATION / GROUP	
Formulate an Action Plan appropriate for their country's electric policy, and organization activities based on the Action Plan is introduced. To reach the above outcome, participants are required: 1. To explain the contents of electric policies, supply structure and electric sectorial structure (bundling or unbundling of power generation, distribution and retail operations). 2. To illustrate problems of electricity policies of their own country. 3. To examine electricity policies which are suitable for their home country and can announce the Action Plan for enforcement.	(Target Organ Government a which are chan (Target Group 1. University/ 2. Individuals experience. 3. Individuals policy. (Above government at 4.Individuals v and reading ab PROGRAM PERIOD IMPLEMENTING	Jizations) Jigencies or electric power utili rged with electric policy. (college graduates or equivalent with over 5 years practical engaged in the drafting of elect the level of division chief in a uthority) with sufficient Russian converse pility. Jan.25.2009~Feb.7.2009 International Development Cent	nt ctricity a sation
Prepare a Country Report describing present situation of each countries/ organizations and their problems in power sector.	PARTNER	Japan	
Program in Japan:	JICA CENTER	JICA Tokyo	
(Lecture)	COOPERATION PERIOD	2005~2009	
Outline of Japanese electric policy, Outline of Japanese electricity business, Technical aspect of power supply, The various sides of an electricity policy, Development status of an oil alternative fuel, Anti-global warming measures (Observation) Thermal power plant, Transformer substation, etc. (Discussion) Country Report Presentation, Action Plan Presentation, etc.	REMARKS		
Electric Power Development Planning in Mekong Region Countries 東南アジア地域 メコン地域における電力開発計画	Natural F	R/F 100 Resources and Energy—Energy	884058 / Supply
Electric Power Development Planning in Mekong Region Countries 東南アジア地域 メコン地域における電力開発計画 Target Countries: Mekong Region Countries	Natural f	Resources and Energy-Energy	
東南アジア地域 メコン地域における電力開発計画 		Resources and Energy-Energy	/ Supply
東南アジア地域 メコン地域における電力開発計画 Target Countries: Mekong Region Countries	TARGI [Target Organ Electric power energy, Electr [Target Group (1)Working in development p (2)Individuals more than 3 y	Resources and Energy—Energy 8 participants / Energy ET ORGANIZATION / GROUP nizations] r planning bodies (e.g. Ministr ric power company) p] the organization for electric p olanning currently engaged in the field ears with sufficient English convers	/ Supply nglish y of power for
東南アジア地域 メコン地域における電力開発計画 Target Countries:Mekong Region Countries OBJECTIVE 【Objectives】 Capacity development for electric power planning in consideration of power interchanges in Mekong region countries. 【Outputs】 (1)Trainees can own jointly the electric power development planning information including latest plan, basic data and standards in each country. (2)Trainees can explain the general knowledge of electric power development planning. (3)Trainees can explain the characteristic of each power source, transmission system and power plant. (4)Trainees can explain the considerable issue and point of Planning surveys of power facilities, Permissions, Plannings and Locations. (5)Trainees can extract priority issues and examine the necessary countermeasures	TARG [Target Organ Electric power energy, Electr [Target Groun (1)Working in development p (2)Individuals more than 3 y (3)Indivisuals and reading at	Resources and Energy—Energy 8 participants / Energy ET ORGANIZATION / GROUP nizations] r planning bodies (e.g. Ministr ric power company) p] the organization for electric p olanning currently engaged in the field ears with sufficient English convers	/ Supply nglish y of power for
東南アジア地域 メコン地域における電力開発計画 Target Countries:Mekong Region Countries OBJECTIVE 【Objectives】 Capacity development for electric power planning in consideration of power interchanges in Mekong region countries. 【Outputs】 (1)Trainees can own jointly the electric power development planning information including latest plan, basic data and standards in each country. (2)Trainees can explain the general knowledge of electric power development planning. (3)Trainees can explain the characteristic of each power source, transmission system and power plant. (4)Trainees can explain the considerable issue and point of Planning surveys of power facilities, Permissions, Plannings and Locations. (5)Trainees can extract priority issues and examine the necessary countermeasures in each country as a result of this training program.	TARG [Target Organ Electric power energy, Electr [Target Group (1)Working in development p (2)Individuals more than 3 y (3)Indivisuals and reading ab	Resources and Energy—Energy 8 participants / E ET ORGANIZATION / GROUP nizations] r planning bodies (e.g. Ministr ric power company) p] the organization for electric p olanning currently engaged in the field ears with sufficient English converse oility	/ Supply nglish y of oower for sation
東南アジア地域 メコン地域における電力開発計画 Target Countries:Mekong Region Countries OBJECTIVE 【Objectives】 Capacity development for electric power planning in consideration of power interchanges in Mekong region countries. 【Outputs】 (1)Trainees can own jointly the electric power development planning information including latest plan, basic data and standards in each country. (2)Trainees can explain the general knowledge of electric power development planning. (3)Trainees can explain the characteristic of each power source, transmission system and power plant. (4)Trainees can explain the considerable issue and point of Planning surveys of power facilities, Permissions, Plannings and Locations. (5)Trainees can extract priority issues and examine the necessary countermeasures in each country as a result of this training program. Preparatory phase: Prepare a Country Report describing the present situation and problem of each country/organization	TARGI [Target Organ Electric power energy, Electr [Target Group (1)Working in development p (2)Individuals more than 3 y (3)Indivisuals y and reading ab PROGRAM PERIOD IMPLEMENTING	Resources and Energy—Energy 8 participants / Energy ET ORGANIZATION / GROUP nizations] r planning bodies (e.g. Ministr ric power company) p] the organization for electric p olanning currently engaged in the field ears with sufficient English converse bility	/ Supply nglish y of oower for sation
東南アジア地域 メコン地域における電力開発計画 Target Countries: Mekong Region Countries OBJECTIVE 【Objectives】 Capacity development for electric power planning in consideration of power interchanges in Mekong region countries. 【Outputs】 (1)Trainees can own jointly the electric power development planning information including latest plan, basic data and standards in each country. (2)Trainees can explain the general knowledge of electric power development planning. (3)Trainees can explain the characteristic of each power source, transmission system and power plant. (4)Trainees can explain the considerable issue and point of Planning surveys of power facilities, Permissions, Plannings and Locations. (5)Trainees can extract priority issues and examine the necessary countermeasures in each country as a result of this training program. CONTENTS Preparatory phase: Prepare a Country Report describing the present situation and problem of each	TARGI [Target Organ Electric power energy, Electr [Target Group (1)Working in development p (2)Individuals more than 3 y (3)Indivisuals and reading ab PROGRAM PERIOD MPLEMENTING PARTNER	Resources and Energy—Energy 8 participants ET ORGANIZATION / GROUP nizations] r planning bodies (e.g. Ministric power company) p] the organization for electric polanning currently engaged in the field ears with sufficient English converse pility Oct.19.2008~Nov.6.2008 JAPAN ELECTRIC POWER INFORMATION CENTER INC.	/ Supply nglish y of oower for sation

R/F

0884008

Solar Power Generation Technology for Middle East Area

R/F 🖠

0884069

中東地域太陽光エネルギー発電技術		10	· 🖃	0001000
中東地域 太陽元エイルナー光亀技術	Natural Reso	ources and Energ	y—Renewa	ble Energ
Target Countries:Middle East Area		6 participants	/	English
OBJECTIVE	TARG	ET ORGANIZATIO	ON / GROU	JP
 [Objectives] To gain the fundamental knowledge and practical examples that is able to use to introduce of system, promotion of utilization, and maintenance management of solar power generation. [Outputs] (1) To understand the place of solar power generation in Japanese energy policy and its actual cases of generation applies. (2) To know and gain the techniques of principal of solar power generation (semiconductor material, solar battery) and its structure and production method (3) To learn the techniques of PV facilities, set up of equipments, maintenance and management (4) To learn the technology of cost evaluation, environmental assessment (5) To make an action plan to solve the problem of the organization which participants belong to 	TARGET ORGANIZATION / GROUP [Target Organizations] Governmental organization of energy developm [Target Group] Engineers working for energy-related governm ministry, electric power public corporation, ar other public organization		vernment	
CONTENTS	PROGRAM PERIOD	Jun.16.2008∼Sep.	.3.2008	
 (1) Japanese energy policy, needs, economic efficiency and future aspect of solar power generation of solar power generation (lectures) (2) General information of solar power generation, semiconductor material, solar 	IMPLEMENTING PARTNER	Graduate School City University	of Engineer	ing, Osaka
battery, accumulator, electronic circuit, process of solar battery and module	JICA CENTER	JICA Osaka		
making, observation of information transmission/ relay station (lectures, practices and observations) (3) Constitution, design and assembling of PV, system constitution according to	COOPERATION PERIOD	2008~2010		
the purpose of use, constitution and set up cases of system for home and industrial type, cases of middle scale PV system, observation of solar house and solar office (lectures, practices and observations) (4) Regional characteristics of PV, solar irradiation and amount of insolation, energy effective utilization, kind of the solar battery and an evaluation method, structure of the color battery and these characteristic avaluation environmental	REMARKS			

structure of the solar battery and those characteristic evaluation, environmental assessment (lectures, practices and observations)

(5) Action plan making

Enhancement of Capabilities for Geothermal Energy Development for Plan Puebla Panama Countries 中米・カリブ地域 プエブラ・パナマ計画地熱開発事業計画策定能力向上

R/F 0884075

Spanish

Natural Resources and Energy-Renewable Energy

/

11 participants

Target Countries: "Plan Puebla Panama" participation countries

OBJECTIVE	TARGET ORGANIZATION / GROUP		
 [Objectives] Participants will enhance their ability to utilize geothermal energy development by the understanding of the policy making addressed to geothermal energy, and the necessary process of development. [Outputs] (1) Capacity building to promote national awareness and determination in utilizing geothermal resources (2) Capacity building in the basics to explore and exploit the utilization of geothermal resources (Technical aspects) (3) Capacity building in the basics to explore and exploit utilizing geothermal resources (Economy and environmental aspects) (4) Understanding about geothermal powerplant operation and multipurpose utilization of geothermal energy (Field trip) 	 [Target Organizations] Governmental institutions dealing with policy design and with finance of energy, and geothe energy development [Target Group] (1) Individuals from above-mentioned governmental institutions (2) Individuals with more than 5 years occupational experience in this field 		
CONTENTS	PROGRAM PERIOD	Nov.17.2008~Dec.13.2008	
(1) Setting of the general framework with respect of the energy situation of the PPP region and renewable resources, Schemes for development / exploitation (including private sector), Direction to be given by governments to promote	IMPLEMENTING PARTNER	West Japan Engineering Consultants Inc.	
development and exploitation of geothermal resources	JICA CENTER	JICA Kyushu	
(2) Geothermal risk and its mitigation, Exploration of geothermal resources by surface studies and surveys, Evaluation of the geothermal resources using well	COOPERATION PERIOD	2008~2010	
 data, Utilization of the geothermal resources, Otake-Hatchobaru Geothermal Power Station, Takigami Geothermal Power Station (Kyushu Ekectric Power Co., Inc), (3) Economy of the geothermal development project, Financial support and international support / environmental values - Clean Development Mechanism (4) Facilities of multipurpose geothermal utilization projects 	REMARKS		

		R/F 👤 0884187
アフリカ地域地質・鉱物資源情報整備	Na	atural Resources and Energy—Mining
Target Countries: Africa		6 participants / English
OBJECTIVE	TARGI	ET ORGANIZATION / GROUP
 The purpose of this training course is to enhance the capability of policy planning to promote mining investment. In order to achieve the main purpose, there are 3 objectives: (1) To understand the current problems of the mining sector. (2) To understand the current situation of mining investment. (3) To understand the outline of geological and mineral information management. 	Government o	nizations/Group] fficials in charge of the policy and ning resource development
CONTENTS	PROGRAM PERIOD	Feb.12.2009~Mar.14.2009
The following subjects will be covered in this course:	IMPLEMENTING	
 Training of skills to analyse problems To learn the basic concept of problem analysis and make a plan to resolve 	PARTNER	INTERNATIONAL INSTITUTE FOR MINING TECHNOLOGY
problems in mineral policy making. At the end of this course, participants shall	JICA CENTER	JICA Tohoku
present an action plan as the final report. 2) Mineral commodities and mineral flows in industries	COOPERATION PERIOD	2006~2008
 To learn how to use major mineral commodities in the industries of developed and developing countries for recognizing the importance of mineral resources. 3) Mining history and environmental issues 4) Mineral policy and the strategy of Japanese enterprises 5) Mineral laws of various countries 6) Governmental administration and information technology Introduction of a case study of JOGMEC (Japan Oil, Gas and Metals National Corporation) for the implementation of mineral policy. 7) Remote sensing and GIS 	REMARKS	
	Natural Resourc	REGION- 10884240 es and Energy-Energy Conservation
Target Countries: Asia OBJECTIVE	TADO	14 participants / English
Sub-course A, "Audit Technology for Energy Conservation" Participants will acquire the following knowledge and techniques regarding audit	Sub-course A, Conservation"	"Audit Technology for Energy
 (1) Outline of energy conservation. (2) Combustion train (mainly boiler, fired heaters) (3) Rotating machines (mainly boiler, fired heaters) (4) Electric power systems, vapor systems Sub-course B, " Machine Diagnosis Techniques for Energy Conservation" Participants will acquire the following knowledge and techniques regarding machine diagnosis techniques for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Energy conservation diagnosis (pumps, rotating machine, funs and blowers) (3) Machine condition diagnosis techniques (lubricants, thermograph) (4) Operation and maintenance for energy conservation 	Sub-course B, Energy Conse Target Group	b) r or energy manager "Machine Diagnosis Techniques for rvation"
 technology for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Combustion train (mainly boiler, fired heaters) (3) Rotating machines (mainly blower, pump) (4) Electric power systems, vapor systems Sub-course B, " Machine Diagnosis Techniques for Energy Conservation" Participants will acquire the following knowledge and techniques regarding machine diagnosis techniques for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Energy conservation diagnosis (pumps, rotating machine, funs and blowers) (3) Machine condition diagnosis techniques (lubricants, thermograph) 	Energy auditor Sub-course B, Energy Conse [Target Group Operation and PROGRAM	b) r or energy manager "Machine Diagnosis Techniques for rvation" b)
 technology for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Combustion train (mainly boiler, fired heaters) (3) Rotating machines (mainly blower, pump) (4) Electric power systems, vapor systems Sub-course B, " Machine Diagnosis Techniques for Energy Conservation" Participants will acquire the following knowledge and techniques regarding machine diagnosis techniques for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Energy conservation diagnosis (pumps, rotating machine, funs and blowers) (3) Machine condition diagnosis techniques (lubricants, thermograph) (4) Operation and maintenance for energy conservation CONTENTS Lecture , Exercise, Hands-on training in plant, Case study] sub-course A, "Audit Technology for Energy Conservation" (1) Outline of energy management and audit technology for energy conservation	Energy auditor Sub-course B, Energy Conse [Target Group Operation and PROGRAM PERIOD MPLEMENTING PARTNER	b) r or energy manager "Machine Diagnosis Techniques for rvation" b) maintenance engineer in a plant
 technology for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Combustion train (mainly boiler, fired heaters) (3) Rotating machines (mainly blower, pump) (4) Electric power systems, vapor systems Sub-course B, " Machine Diagnosis Techniques for Energy Conservation" Participants will acquire the following knowledge and techniques regarding machine diagnosis techniques for energy conservation. (1) Outline of energy management and audit technology for energy conservation (2) Energy conservation diagnosis (pumps, rotating machine, funs and blowers) (3) Machine condition diagnosis techniques (lubricants, thermograph) (4) Operation and maintenance for energy conservation CONTENTS L ecture, Exercise, Hands-on training in plant, Case study] sub-course A, "Audit Technology for Energy Conservation" (1) Outline of energy management and audit technology for energy conservation (2) Combustion train (mainly boiler, fired heaters)	Energy auditor Sub-course B, Energy Conse (Target Group Operation and Persion MPLEMENTING PARTNER JICA CENTER	b) r or energy manager "Machine Diagnosis Techniques for rvation" b) maintenance engineer in a plant Jan.12.2009~Apr.11.2009 Kitakyushu International Techno-cooperative Association
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É : Learning Program, ∰ : Diffusion Program, . Solution Program, . International Dialogue Program - 366 -

Research on Biomass Technology		GROUP ### 0880034
バイオマス有効利用技術	Natural Private Sector	Resources and Energy—Energy Supply Development—Industrial Technology 3 participants / English
OBJECTIVE	TARG	ET ORGANIZATION / GROUP
 [Objective] The objective of this course is to master appropriate technologies and skills in the biomass field and to suggest methods of applying the scientific knowledge acquired for the effective usage of biomass. To reach the objective, participants are expected to achieve the following: 1) To master methods to carry out research activities by themselves 2) To deepen knowledge on the use of biomass 3) To build a broad network with other researchers 4) To make a presentation at academic conferences 5) To make a final report as a result of the research activities in Japan 6) To make a suggestion paper on the efficient use of biomass in their countries 	[Target Grou 1) Researche above-menti 2) Individual equivalent q	earch institutes, universities up] ers in the field of biomass in the oned organizations s with a master's degree or
CONTENTS	PROGRAM	Oct.7.2008~Aug.29.2009
Preparatory phase: - Participants are requested to make their own research proposals according to the topic of the research subject determined before their coming to Japan. During	PERIOD IMPLEMENTING PARTNER	National Institute of Advanced Industrial Science
this process it is essential to contact the host researchers and engage in consultations.	JICA CENTER	UCA Taulada
		JICA Tsukuba
Program in Japan: - Lectures on the effective use of biomass (2 weeks):	COOPERATION PERIOD	2006~2010
 Program in Japan: Lectures on the effective use of biomass (2 weeks): Technology of biomass recovery system, bio-refinery technology, Biomass energy technology (gasifying/BDF production, etc.), sugar platform technology Individual research (about 10 months): According to the subject determined before coming to Japan, 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 final report. By the end of the program, the participants will make a draft of the suggestion paper concerning the effective usage of biomass from a scientific viewpoint. Subjects to be offered in relation with the following fields: Biodegradable plastics, biomass energy, ethanol production technology, application of biodiesel fuel to automobiles, life cycle assessment of biomass usage, etc. Development phase: The draft of the suggestion paper will be shared with the respective organizations of the participants, based on which feasible activities will be determined. At both 6 months and 12 months after the end of the program in Japan, the participants will make a progress report of their activities and submit it to Japan. 		

Thermal Power Engineering Course for Gas Turbine and Coal Fired Steam Turbine		GROUP	0880578
Thermal Power Engineering Course for Gas Turbine and Coal Fired Steam Turbine ガスタービン・蒸気タービン(石炭)火力発電	Natural I	Resources and Energy—E	
Target Countries:Countries operating gas turbine or coal-fired steam turbine power plants		7 participants /	English
OBJECTIVE	TARG	ET ORGANIZATION / GR	OUP
<outcome> Knowledge and skills for management, operations, maintenance and environmental conservation which are the outputs of this program will be shared and promoted among his/her organizations.</outcome>	plants	or coal-fired steam turbi	ne power
 <outputs></outputs> (1)Participants will make a job report and issue analysis sheet of their organizations by the end of preparatory phase. (2) Participants will be able to analyze and assess similarities and/or differences between electric power industry in Japan and in their country. (3) Participants will be able to analyze knowledge and information on effective techniques of operation and control, effective maintenance and troubleshooting, advanced technologies for environmental conservation by thermal power plants which are gained in Japan, according to the prepared issue analysis. (4) Participants will make an action plan on dissemination activities of skills and knowledge gained from the training program in Japan. (5) The dissemination plans made by the participants will be shared in their organizations. (6) The dissemination plans will be discussed and promoted in their organizations. 	 (2) Those who are taking leading roles in the operational management/maintenance section (3) Those with over three years' experience (1) and (2) above. (4) Those sharing outputs from this programing inside their power plants after the program Japan. (5) Those involved in recipient power plants ongoing or prospective JBIC's ODA loan project(s) and/or in power plants related to JICA's technical project(s) are appreciated 		s in the e section prience in rogram ogram in plants of oan ted to
CONTENTS	PROGRAM PERIOD	May.13.2008~Jul.6.2008	
<preparatory program=""> Drawing up a Job Report, a Country Report and Issue Analysis Sheet</preparatory>	IMPLEMENTING PARTNER	JAPAN ELECTRIC PO INFORMATION CENT	
<program in="" japan=""> (1) Program Orientation</program>	JICA CENTER	JICA Chugoku	
(2) Presentation of Country Reports(3) Outline of the Electric Power Industry in Japan(4) Acquisition of operation and management techniques for thermal power plants	COOPERATION PERIOD	2007~2009	
 (5) Acquisition of operation and management techniques for thermal power plants (5) Acquisition of manufacturing techniques for thermal power plants (6) Acquisition of environmental conservation technologies for thermal power plants (7) Acquisition of environmental conservation technologies for thermal power plants (8) Preparation and Presentation of Dissemination Plans <post-program activities=""></post-program> Participants are to implement the dissemination activities, based on the final Report which was made during the program. Also, participants must submit a progress report to JICA within 3 months. 		Details of the Program consideration and part contents is subject to of Upon submitting the ap participants must choos they would like to take for gas turbine or coal is generation.	of the change. pplication, se whether the course
	REMARKS		

	GROUP 🗰 0880797
Natural I	Resources and Energy—Energy Supply
	9 participants / English
TARG	ET ORGANIZATION / GROUP
Competent g power sector [Target Gro - Persons in position or e position. - Electrical e or public org five years ex - University	overnment agencies for electric and electric power companies
PROGRAM	Aug.26.2008~Oct.4.2008
IMPLEMENTING PARTNER	Japan Electric Power Information Center, Inc. (JEPIC)
JICA CENTER	JICA Okinawa
COOPERATION PERIOD	2008~2010
REMARKS	Based on the training contents of all outputs, participants will make action plan about enlightenment of technical knowledge and skills during Core Phase in Japan.
	TARGI Competent g power sector (Target Grou - Persons in position. - Electrical e or public org five years ex - University - Age: From PROGRAM PERIOD IMPLEMENTING PARTNER JICA CENTER COOPERATION PERIOD

Electric system engineering (except distribution) 電力系統技術	Natural	GROUP ### 0880827 Resources and Energy—Energy Supply
Target Countries : Countries which built or are developing electric systems (which include	Naturar	8 participants /
OBJECTIVE	TARG	· · ·
 [Objectives] After this training, participants who are core engineers engaged in electric system section of the participating nation get possible to devise basic strategies solving problems in each workshop or improving system planning and operation effectively. [Outputs] (1) - Being able to explain the outlines of the electric power industry in their own countries Understanding the present conditions in their own countries while comparing with the Japanese present conditions and grasping both good points and problems. (2) (2) Unit target 2> Acquiring basic knowledge of the constitution, analysis and planning of the electric system and effective technologies of analysis and planning with lectures including computer demonstration observe. (3) <unit 3="" target=""></unit> Acquiring basic knowledge for construction, operation and maintenance of transmission line and substation, and new techniques for cost reduction and promotion of efficiency. And deepening understanding by observing examples of facilities applying the new techniques. (4) <unit 4="" target=""></unit> Acquiring basic knowledge for construction, operation and maintenance of electric system, deepening understanding by visiting facilities and learning practical techniques in simulation training. (5) <unit 5="" target=""></unit> Being able to devise an action plan (basic strategies to solve problems in each workshop etc.) based on techniques which they learned. 	 and are expected to play a leading role in the field (2) University graduates or equivalent (3) Age: 27-40 years old (4)Individuals with a good command of English (5) Individuals engaging in electric system engineering with at least 5 years of work experience and not more than 20 years experience (6) Individuals in good health, both physically mentally, to undergo the course of rigorous training (7)Must not be serving any form of military service 	
CONTENTS	PROGRAM	Aug.24.2008~Oct.1.2008
 (1) < Training contents 1> (Before training) Drawing up a country report (In Japan) Country report presentation and discussion 	PERIOD IMPLEMENTING PARTNER	Japan Electric Power Information Center, Inc. (JEPIC), Tohoku Electric Power Co., Inc. (Tohoku EPCO)
Lectures and discussion of outline of the electric power industry in Japan etc. Lectures and practical training of quality control (2) \leq Training contrate 2 \geq (In Japan)	JICA CENTER	JICA Tohoku
 (2) < Training contents 2> (In Japan) Lectures of outline of electric system and electric system planning Technical study requirement for electric system planning 	COOPERATION PERIOD	2008~2010
 and power system Analysis (3) < Training contents 3> (In Japan) Lectures of construction, maintenance, Operation and new technique of Transmission Line and Substation Visiting a factory of power transmission facilities and substations applying new technique (4) < Training contents 4> (In Japan) Lectures of electric system protection scheme Practical training of simulator for protective Relay etc. Visiting central load dispatching center etc. (5) < Training contents 5> (In Japan) Drawing up an action plan report and preparation for the presentation Action plan report presentation and discussion 	REMARKS	

安定供給型水力発電	Natural	Resources and En	ergy—En	ergy Suppl
Target Countries: Countries with organizations dedicated to Hydro-Electric Power		8 participants	/	English
OBJECTIVE	TARG	ET ORGANIZATIO	DN / GRC	DUP
 environment-friendly hydro-electric power facilities. Participants are expected to achieve the following results: To be able to point out problems of the participant's country/office through understanding of the hydropower generation technology in Japan and the comparison. To be able to draw up a action plan for the issues of the participant's country/office, clarified through the country reports and training (at the end of the Core Phase) To draw up a follow-up report. 	[Target Organizations] Government agencies or electric power ut which are charged with the development of hydropower generation [Target Group] (1)University/college graduates or equiva (2)minimum of 5 years of practical experie (3)Civil engineers in charge of the plannin construction and maintenance of the hydro-power sector, and individuals curr or expected to be, in the near future, pos managerial position, (4) Age: 30-50 years of age,		nt of uivalent erience unning, currently in	
CONTENTS	PROGRAM PERIOD	Jun.3.2008~Jul.12	2.2008	
Preparatory phase: Prepare a Country Report describing the present situation of each of the countries/organizations and their problems.	IMPLEMENTING PARTNER	JAPAN ELECTI INFORMATION		
Program in Japan:	JICA CENTER	JICA Tokyo		
(Lectures)Design standard for power generation facilities, Hydro-electric power facilities in Japan, etc. (Observation)Okinawa Yanbaru Seawater Pumped Storage Power Plant in	COOPERATION PERIOD	2005~2009		
Okinawa, Okukiyotsu Hydropower plant, etc (Practice)Dam Operation Simulator Training Post-program activities: The actions described in the action plan should be reviewed, authorized and implemented. The results of the actions are reported as the Final Report.	REMARKS	Target to be civ electric/mechar alternately each engineers for 20 a non-governme be confirmed th the same as tho from the govern	nical eng n year, an 008. App ental ins at his/he ose of not	ineers nd civil Ilicant from titution to er duty is minees

Energy Policy エネルギー政策			GROUP	088	30049
	Natural I	Resources a			
Target Countries : all countries		10 particip			glish
OBJECTIVE		ET ORGANI	ZATION / C	ROUP	
Recently, most countries have become suffering from the rising cost of crude oil, as the demand for oil has increased with economic development. This program is offered to energy policy makers to enhance their capacities to create the long and medium term comprehensive energy policies in respective countries. At the end of the program, the participants are expected to achieve the following, (1)understand energy situation in the world and the importance of energy policy, current energy policy in Japan, energy balance, etc. (2)draw up policy proposal to implement energy control and energy policy formulation based on energy demand forecasting and energy balance.	[Target Org Ministries an [Target Gro (1)Executive officials in or (2)Individuals field for more (3)Individuals and reading a	d energy ag officials or ganization f s currently e 3 years s with suffic	candidates for Energy engaged in	Policy work in tl	he
CONTENTS	PROGRAM	Jun.29.2008	∼Iul.12.200)8	
Participants will be capable of drawing up policy proposals to implement energy policy formulation based on energy demand forecasting and energy balance after learning energy situation in the world, energy policy in Japan, energy balance, etc	PERIOD IMPLEMENTING PARTNER	IEEJ	<u>j</u>		
Preparatory phase:	JICA CENTER	JICA Toky	70		
Prepare a Country Report describing the present situation and problem of each country/organization	COOPERATION PERIOD	2007~200	09		
 Program inJapan: (Lecture)Energy demand forecasting of the world, Energy policy in Japan, Energy statistics system in Japan, etc. (Observation)Power plant, Oil factory, Bio-fuel plant, Energy Conservation Center (Practice)Project Cycle Management (Participatory Planning) Post-program activities: The actions described in the Policy Proposal should be reviewed, authorized and implemented. The results of the actions are reported as the Final Report. 	REMARKS				

Energy Efficiency and Conservation 省エネルギー		GROUP	0880315
	Natural Resources a	and Energy-Energy	Conservation
Target Countries: Countries with organizations dedicated to saving energy	17 p	participants /	English
OBJECTIVE	TARGET O	RGANIZATION / GF	ROUP
 Energy Efficiency and Conservation Activities in the field of politics and institution building in participating countries will be strengthened. To reach the objective, participants are expected to achieve the following results: To understand the outline of the energy situation of Japan, an energy conservation policy, and energy-saving technologies, and the point which leads to the energy conservation policy and promotion of system construction of their own country is arranged. A policy proposal which leads to the energy conservation policy and the promotion of system construction of their own country is created. Draw up a Final Report which includes the result of sharing and discussion within the organization each participant belongs to, after the return. 	[Target Organizations] The organization for Energy Conservation Promotion [Target Group] (1) Officials working in the organization for Energy Conservation Promotion, (2) Individuals currently engaged in work in the energy conservation field for more than 3 years, (3) University/college graduates or equivalent, (4) Individuals under 45years old, (5) Individuals with sufficient English conversation and English reading ability.		
CONTENTS Preparatory phase:	PERIOD	8.2008~Jul.26.2008	
Prepare a Country Report describing the present situation of each country/organization and their problems	PARTNER CEI	E ENERGY CONSE NTER JAPAN	ERVATION
Program in Japan Formulate a Policy Proposal describing issues in their own organizations/department, and tentative analysis for solving the issues identified Lectures: Energy Policy and Energy Conservation Policy in Japan, Promotion	COOPERATION	CA Tokyo 06~2010	
 Measures and Activities, Energy Conservation Technology, Energy Audit, Outline of ESCO Projects in Japan, etc. Observation: Excellent Cases of Energy Conservation and Energy Management (Buildings, Factories, Power Plants, etc.) Practice: Measurement of Energy Consumption and analysis (Furnace, Fun, Steam traps, etc.) Post-program activities: The actions described in the Policy Proposal should be reviewed, authorized and implemented, and are reported as the Final Report. 	REMARKS		

🖞 : Learning Program, 🎁 : Diffusion Program, 👁 : Solution Program, 🍞 : International Dialogue Program

Nuclear Power Generation Infrastructure Course			3	0880730
原子力発電基整整備計画 	Natural	Resources and En	ergy—Ene	ergy Supply
Target Countries:NPT/IAEA member nations, also have Safeguarded Nuclear Mt'l & Facilitie	s	8 participants	/	English
OBJECTIVE	TARG	ET ORGANIZATIO)N / GRO	UP
Drafting of an Action Plan for introduction of nuclear power generation	[Target Orga	anizations] agencies/electric	ity outbo	ritios
At the end of the program, the participants are expected to achieve the following,		and nuclear power		
 To understand the importance of nuclear power generation in energy supply and power industry. To recognize safety aspects (the importance of public acceptance, safety consideration) on atomic energy introduction, environmental and social considerations, and issues on nuke puke processing. To share awareness of the issues on atomic energy, among participating nations. To formulate an Action Plan. To share an Action Plan among organizations, and formulate a Final Report. 	nuclear powe such as a sec or the admin company) (2)Those who at the staff o electric powe	up] to are engaged in p er generation poli- ction chief of the istrator of an elec- to have 5 years or of an electric powe er development pr graduate or equi	cy. (Mana central m etric powe more of er policy coject.	agement, ninistries, er experience
CONTENTS	PROGRAM PERIOD	Jan.18.2009~Feb.	7.2009	
Preparatory phase: To prepare a Country Report describing the present situation of respective country/organization, its problems and the plan for nuclear power generation.	IMPLEMENTING PARTNER	METI, JEPIC, J	APC	
Program in Japan:	JICA CENTER	JICA Tokyo		
To formulate an action plan on the introduction of nuclear power generation in respective countries. (Lectures)	COOPERATION PERIOD	2007~2009		
Outline of Japanese nuclear power generation, international framework for nuclear non-proliferation, security, environmental impact assessment, authorization processes, etc. (Observation) Nuclear Power Plants in Japan, etc. (Practice) BWR/PWR Operation Simulators Post-program activities: The actions described in the action plan should be reviewed, authorized and implemented. The results of the actions are reported as the Final Report.	REMARKS	1. Fix countries cooperation ter 2. Repeated par same person ac	m(2007–2 rticipation	2009).

Electric Power Forum for Asia Pジア電力フォーラム			R∕F 🕐	0884198
	Natural F	Resources and E	nergy—En	ergy Supply
Target Countries: Asia Region		4 participants	/	English
OBJECTIVE	TARG	ET ORGANIZATI	ON / GRC	UP
 Participants will exchange information on challenges and efforts by electric power sectors, and share awareness of the issues with Japanese authorities concerned in electric power sector. Participants and Japanese authorities will develop an international network throughout the Forum. At the end of the program, the participants are expected to achieve the following, (1)exchange information on challenges and efforts by power sectors in participating countries, and share awareness of the issue, (2)understand Japanese challenges and efforts for responding increasing power demand during high economic growth period, (3)learn about the analysis of present power sectors in Asian region and the Japanese government assistance policy directions, and (4)develop a network among participants and Japanese counterparts through an open seminar. 	 [Target Organizations] Ministries and agencies of Electricity [Target Group] (1)Executive officials at bureau's director generals level who are responsible for power sector in the Ministry of Power or Ministry of Energy (2)Individuals with sufficient English conversation and reading ability 			
CONTENTS	PROGRAM PERIOD	Under planning		
Prepare a Country Report describing present situation of each countries/ organizations and their problems in power sector. Program in Japan: (1)Lectures (2)Country Report presentation (3)Open seminar (4)Observations	IMPLEMENTING PARTNER	Japan Electric Po Center Inc.	ower Inform	nation
	JICA CENTER	JICA Tokyo		
	COOPERATION PERIOD	2007~2009		
	REMARKS			