

NOTE:

The course period has been changed because of the COVID-19 pandemic (original period was from May 13 to June 6, 2020 (A), October 7 to October 31, 2020 (B)).



【Online】 Knowledge Co-Creation Program (Group & Region Focus)

General Information on

**Power Grid Planning and Operation (A/B)
課題別研修 系統運用事業者幹部職員研修 (A/B)**

JFY 2020

Course No. (A) 201906589J001, (B) 201905860J001

Online Course Period: From January 14, 2021 to February 5, 2021

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, stated that *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* We believe that this ‘Knowledge Co-Creation Program’ will serve as a foundation of mutual learning process.

I. Concept

Background

Our everyday lives depend on stable power supply, which has a close relation to human and economic development. Some countries are still suffering from chronic shortages of power and frequent blackouts due to inefficient power systems. Even in other countries where enough power is generated, stable power supply is still a serious issue, due to the low quality of the power transmission and distribution system.

Japan has developed a stable power supply system, with continuous effort to realize high-level efficiency. This Program is designed for the managers of grid operating companies and related governmental organizations to deepen their knowledge on power system engineering and related technology in Japan, for their better management of the grid. It also aims at building networks among such key players in the power sector.

For what?

This program offers managers from grid operators/governmental organizations a chance to strengthen their knowledge on Japanese practice in power grid operations, so that they are able to achieve appropriate planning and operation of the grid in their respective country.

For whom?

This program is designed for the management level personnel (e.g. department head of each section) in national grid operators and related governmental organizations.

How?

Through self-study and online interactive Q&A sessions, participants shall gain insight to the principle of planning of reliable power transmission network and tips of efficient operation from experiences of Japan. Participants are expected to submit "Action Plan", ideas to address related issues of each country, towards the end of the program.

Sustainable Development Goals (SDGs)

JICA is committed to achieving the SDGs. This program is to contribute to following goals.



II. Description

1. Title (Course No.)

Power Grid Planning and Operation (A/B)
((A) 201906589J001, (B) 201905860J001)

2. Course Period

From **January 14, 2021 to February 5, 2021**

During the period, online interactive sessions (web conference by Zoom) will be organized 6 times at JST (Japan Standard Time) 13:00 - 15:00 (UTC/GMT 04:00 - 06:00).

Tentative Program: Fixed schedule will be shared to the accepted participants with the Notice of Acceptance.

Date	Time	
December, 25 (Fri) 2020	-	Submission & sharing of Inception Report
January, 13 (Wed) – 22 (Fri)	-	Downloading & Reading Lecture Materials
January, 14 (Thurs)	UTC/GMT 04:00 - 06:00	Orientation (Homeroom), Q&A session
January, 15 (Fri)	UTC/GMT 04:00 - 06:00	Discussion on Inception Reports
January, 18 (Mon)	UTC/GMT 04:00 - 06:00	Q&A session
January, 21 (Thurs)	UTC/GMT 04:00 - 06:00	Homeroom, Q&A session
January, 26 (Tue)	UTC/GMT 04:00 - 06:00	Q&A session
January, 27 (Wed)	-	Submission of Action Plan
January, 28 (Thurs)	UTC/GMT 04:00 - 06:00	Homeroom

<Important Note>

The course period has been changed because of the COVID-19 pandemic (original period was from May 13 to June 6, 2020 (A), October 7 to October 31, 2020 (B)). In the context of the COVID-19 pandemic, please note that there is a possibility the course period may be changed, shortened, or the course itself cancelled.

3. Target Regions or Countries

(A) Papua New Guinea, Niue, Ethiopia, Kenya, Nigeria, Uganda, Tanzania, Cote d'Ivoire, Senegal, Sierra Leone

(B) Laos, Nepal, Pakistan, Sri Lanka, Cuba, Honduras, Afghanistan, Egypt, Morocco

4. Eligible / Target Organization

This program is designed for national grid operators or equivalent governmental organizations in power sector.

5. Capacity (Upper limit of Participants)

21 participants

6. Language

English

7. Objective(s)

Participants obtain knowledge of power grid system planning and operation.
Participants make Action Plan to address relevant issues in each country.

8. Overall Goal

Capacity of planning and operation in national power grid is improved.

9. Output and Contents

This course consists of the following components. (Subject to minor change.)

Expected Output	Module	Subjects/Agendas	Methodology
To clarify issues and opportunities concerning the power system in home country.		Inception Report preparation, sharing and discussion	<ul style="list-style-type: none"> ✓ Writing Inception Report ✓ Online discussion
To be able to share the knowledge on the grid system and operation practices in Japan.		Overview of power grid system operation in Japan, including power system reform	<ul style="list-style-type: none"> ✓ Reading Lecture Materials ✓ Online Q&A Consultation
To be able to share the knowledge and technology of power system planning.		(1) System planning (e.g. transition of power system expansion in electric company)	<ul style="list-style-type: none"> ✓ Reading Lecture Materials
		(2) Function of engineering department and system operation department. Allocation of roles between utility company and contractor	
To be able to share the knowledge and technology of power system operation.		(1) System reliability (e.g. supply-demand control, voltage regulation, mitigation of cascading blackout, trans-regional operation)	<ul style="list-style-type: none"> ✓ Online Q&A Consultation
		(2) Role of power system division and affiliated company in power system operation and maintenance	

	(3) Challenges and opportunities on interconnection of renewable energy.	
To be able to share the knowledge and technology of operation and maintenance for power system equipment.	(1) System reliability (e.g. supply-demand control, voltage regulation, mitigation of cascading blackout, trans-regional operation)	
	(2) Quality Control of equipment	
	(3) Quality Control of power transmission facilities	
	(4) Substations	
To formulate Action Plan formulation on planning, designing, operation and maintenance of power system in each home country	(1) Guidance for creating the Action Plan	✓ Online guidance
	(2) Preparation and submission of the Action Plan	✓ Writing Action Plan ✓ Feedback via E-mail

- During the program, about 3 weeks, you are supposed to:
 - read 11 sets of lecture material,
 - join online discussion / Q&A sessions 6 times (1-2 hours each)
 - write 1 Action Plan, and
 - (write 1 Inception Report before the program starts.)

You are responsible for time management. Please make sure that you discuss this with your supervisor in your organization, so that you have enough time to focus on your course work.

- Participants who have successfully completed the program will be awarded a certificate by JICA.

III. Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the program to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

2. Nominee Qualifications

Applying organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties: Management level (e.g. department head of each section) in national grid operators focusing on transmission or relevant governmental organizations.
- 2) Experience in the relevant field: Have at least 15 years of experience in the field of grid operation.
- 3) Educational Background: Graduates of engineering faculty of university or equivalent.
- 4) Language: Smooth communication in English.
- 5) Technical Requirements for the Online Course (Computer)

Technology Proficiency:

-Basic computer skills such as, sending/receiving email with attachments, and using a web browser.

-Online course may be delivered using the following services, Web Conferences (Zoom) and Cloud Storage (JICA-GIGAPOD).

*Online tutorial and support by JICA will be limited. The ability to be self-directed in learning new technology skills are required.

Internet Connection:

-High Speed Broadband Connection (at least 2Mbps).

* Internet access charge incurred for this course shall be borne by you/your organization.

Hardware (Minimum Requirement):

- Regular access to a computer, either from your home or from your office.

- Operating System: Windows or Mac OS (Updated version is preferred).
- Processor: Intel Core 2 Duo or higher; 2GHz or higher
- Memory: 4GB of RAM or higher
- Hard Drive Space: 5GB free disk space
- Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)
- Others: Webcam Microphone, and Audio output Device (Speaker or Headset)

Software (which may be required):

- Zoom Client for Meeting (<https://zoom.us/download>)

*In case you are using your office computer and use of Zoom is not authorized by your IT administrator, please notify JICA at the time of application.

6) Health: must be in good health to participate in the program.

7) Attendance Requirement: Participation in the program and submission of reports are essential requirements for the completion of the course.

(2) Recommended Qualifications

- 1) Age: Between the ages of forty (40) and fifty-five (55) years
- 2) Gender Consideration: JICA promotes gender equality. Women are encouraged to apply for the program.

3. Required Documents for Application

(1) Application Form: The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**

(2) Photocopy of Passport or ID:

Photocopy should include Name, Date of Birth, Nationality, Sex, ID number and Expire date.

(3) English Score Sheet: to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

(4) Country Report (V. ANNEX): To be submitted with the Application Form. Typewritten in English in double spacing (about 6 to 9 pages of A-4 size). The latest annual report published by the applicant's organization should also be attached, only if and when available in English.

* Note: Applicants are strongly expected to typewrite the documents. There are many applications disqualified from the selection because of the illegible letter

in those documents.

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at **JICA Center in JAPAN** by **November 20, 2020**.)

(2) Selection

Primary screening is conducted at JICA office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization, and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

JICA overseas office (or the Embassy of Japan) will notify the results **not later than December 1, 2020.**

5. Additional Document(s) for Accepted Participants

(1) Inception Report -- to be submitted by **December 25, 2020.**

Before beginning of this course, only accepted participants are required to prepare an Inception Report. Detailed information is provided in the VI. ANNEX "Inception Report". The Inception Report should be sent to JICA by December 25, 2020, preferably by e-mail to OI.Yoshiko@jica.go.jp

The Report should be prepared using the Microsoft Power Point (PPT) and consists of the following points. Since you will not actually do presentation, it is important that your presentation has to be self-explanatory. To this end, please make sure that you supplement the contents with additional information using note function.

- 1) Outline of your country (Statistical Data)
- 2) The organization of the electric power sector and role of your organization and your duty
- 3) Current situation of electric power and transmission facilities (Summary the

information in your Country Report)

- 4) Present issues and the possible causes in electric power transmission
- 5) Your expectation to join this program

(2) Action Plan: Participants are expected to submit Action Plan towards the end of the program. Online guidance is organized during the program and lecturers will provide feedback and advice on your Action Plan.

6. Conditions for Participation

Participants of KCCP are required

- (1)** to strictly observe the course schedule
- (2)** not to change the program topics
- (3)** not to record or share the online contents without JICA's permission

IV. Administrative Arrangements

1. Organizer (JICA Center in Japan)

JICA Kansai Center (JICA Kansai)

Programme Officer

Ms. OI Yoshiko (Oi.Yoshiko@jica.go.jp)

Ms. KONO Yukiko (Kono.Yukiko@jica.go.jp)



2. Implementing Partners

- Japan Electric Power Information Center (JEPIC)

<https://www.jepic.or.jp/en/>

Mr. OKITA Akihiro, Course Leader

Deputy Director, Electric Power Cooperation Department



- Kansai Electric Power Co., Inc.(KEPCO)

<https://www.kepcoco.jp/english/>

Mr. INOUE Tomohiro, Lecturer

Kansai Transmission and Distribution Inc.

Kansai Electric Power Group



Mr. MATSUSHITA Kazunori, Lecturer

Kansai Electric Power Co. Ltd.

International Business and Cooperation Division



Mr. KAJIKAWA Miles, Lecturer

Kansai Electric Power Co. Ltd.

International Business and Cooperation Division



V. Annex

Country Report

Information and Data on Basic Energy and Power of your Country

All applicants are expected to fill the form and submit it **with the Application Form** to JICA office in your country.

Country: _____

Name: _____

1. Utility

(a) Major Electric Power Utilities (Public or Private)

(b) System of Electric Power Utilities

Situation of deregulation

Situation of unbundling the transmission and distribution sectors

2. Availability of Energy Resources

(a) Reserve of fossil energy (if endowed) in Year 20?? (Specify the year of data)

Fossil Energy	Estimated Amount of Reserve	Unit
Coal		Ton
Oil		Barrel
Natural Gas		m ³

(b) Potential of Renewable Energy

Forms of Renewable Energy	Estimated Amount of Potential	Unit
Biomass in Year 20?? (Specify the year of data)		Ton or m ³
Hydropower in Year 20?? (Specify the year of data)		MW

Form of Renewable Energy	Annual Average Irradiation	Unit
Photovoltaic		kWh/m ² /day

Form of Renewable Energy	Annual Average Wind Speed with Specific Site Names (Please select several representative sites)	Unit
Wind Power		meter/Second

3. Annual Production of Fossil Energy (if produced)

Forms of Fossil Energy	Amount of Annual Production	Year of Production	Unit
Coal			Ton
Oil			Barrel
Natural Gas			m ³

4. Primary Energy Supply¹ by Forms of Energy in Year 20?? (Specify the year of data)

Unit: Joule or specify unit

Forms of Energy		Primary Energy Supplied	Percentage
Fossil Energy	Coal		
	Oil		
	Natural Gas		
Sub-Total			
	Hydro		

¹ Primary energy is the energy that exists in nature without processing for or converting to secondary energy. Primary energy can be divided into three categories, fossil energy, natural energy and nuclear energy. Primary energy supply is the total amount of energy supplied to a nation.

Natural Energy	Biomass		
	Solar		
	Wind		
	Geothermal		
Sub-Total			
Nuclear			
Total			100 %

5. Final Energy Consumption² by Sectors in Year 20?? (Specify the year of data)

Unit: Joule or specify unit

Sectors	Final Energy Consumption	Percentage
Industry Sector		
Social and Household Sector		
Transportation Sector		
Total		100 %

6. Installed Capacity of Power Generation Facilities (National Grid Connected) in a year of 20?? (Specify the year)

² Final energy consumption is a total amount of energy actually consumed by the industry sector, the social and household sector, and the transportation sector in a nation as the form of primary energy, or the form of secondary energy that was converted or processed from primary energy. Secondary energy includes petroleum products such as petrol and kerosene, and electricity generated by thermal power.

Generation Facilities	Installed Capacity (MW or kW)	Share (%)
Hydropower³ in Total		
Conventional Hydropower over 10 MW		
Small Hydropower between 10 MW and 1 MW		
Mini Hydropower between 999 kW and 100 kW		
Micro Hydropower less than 99kW		
Thermal Power in Total		
Diesel Power		
Coal fired Steam Turbine		
Oil fired Steam Turbine		
Gas fired Steam Turbine		
Gas Turbine (Single Cycle)		
Gas Turbine (Combined Cycle)		
Renewable Energy except for hydropower in Total		
Grid connected Photovoltaic Systems		
Grid connected Wind Power		
Grid connected Biomass Generation		
Other forms of grid connected renewable energy (Please specify)		
Overall Total		

Generating Capacity per Capita (kW/Capita)	
--	--

7. Electricity Generated by Grid Connected Generation Facilities in Year 20??
(Specify the year of data)

Generation Facilities	Electricity Generated (MWh)	Share (%)
Hydropower		
Thermal Power		
Renewable Energy except for Hydropower		
Total		100 %

8. Electricity Consumed by Sectors in Year 20?? (Specify the year of data)

³ Different countries use different definition to categorize hydropower. If your county has its own definition, you can use it and specify the definition in the table.

Sectors	Electricity Consumed (MWh)	Percentage (%)
General Household		
Commercial		
Industry		
Agriculture		
Government		
Total		100 %

Sales per Capita (kWh/Capita)	
-------------------------------	--

9. Structure of Power System Supervision and Control

(a) Frequency Control

Centralized Operation at CLDC (Central Load Dispatching Center) or Not?

(b) Power System Control

Supervised voltage level and Control center supervising

(c) Manufacturer of SCADA System

10. Combined Power System Losses in Year 20?? (Specify the year of data)

(A) Annual Total Electricity generated at generation end by all Power Stations on National Grid	MWh
(B) Annual Total Electricity sent out to National Grid	MWh
(C) Annual Total Electricity consumed by all Power Stations 【Power Station Own Use】 (A) - (B) = (C)	MWh
Power Station own use Rate (C) / (A) X 100	%
(D) Annual Total Electricity sold	MWh
(E) Annual Total of Transmission and Distribution Loss 【Transmission & Distribution Loss】 (B) - (D) = (E)	MWh
Transmission and Distribution Loss Rate (E) / (B) X 100	%

11. Conceptual diagram of power flow from generating facilities to the customers

(a) Classification of Voltage for Interconnection (Transmission and Distribution)

(b) Transmission Line Route Length (km)

200kV or over	
Under	
total	

(c) Distribution Line Route Length (km)

High Voltage	
Low Voltage	
total	

12. Household Electrification Rate

National Average of Household Electrification Rate (=Connected Households / Total Number of Households)	%
Rural Electrification Rate (=Connected Households in Rural Area / Total Number of Households in Rural Area)	%
Urban Electrification Rate (=Connected Households in Urban Area / Total Number of Households in Urban Area)	%

VI. ANNEX:

Inception Report

Accepted participants are requested to prepare an Inception Report, referring to the following format (Microsoft Power Point) as an example.

- Detailed explanation for each slide should be written on the NOTE of PPT.
- The Report should be uploaded to dedicated GIGAPOD of JICA Kansai Center by **December 25th, 2020**. The URL of the GIGAPOD will be notified with acceptance notice.
- Online discussion (Zoom) will be organized on January 15th, 2021, in order to discuss the issues of each country.



Please use this presentation format for Inception report

Part 1 Country Report

[Format] Presentation time :20min (including Q&A)
◇Country Report
P1-5 ; General Information (Power condition)
P6-9 ; Transmission condition
◇Issue Analysis Report
P10-14; Facing issues and analysis of the causes
P15 ;Expectation for this training course

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The General Information

(As of 200X)

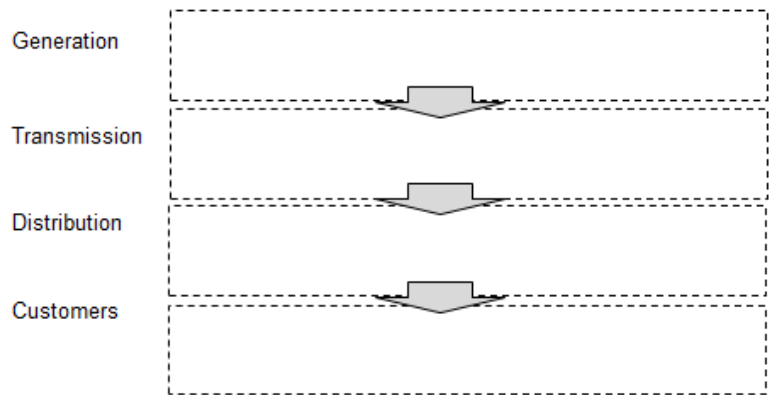
Population	
Land Area(km ²)	
Power Consumption(GWh)	
Installed Capacity(MW)	
Electrification Rate(%)	

Country Map

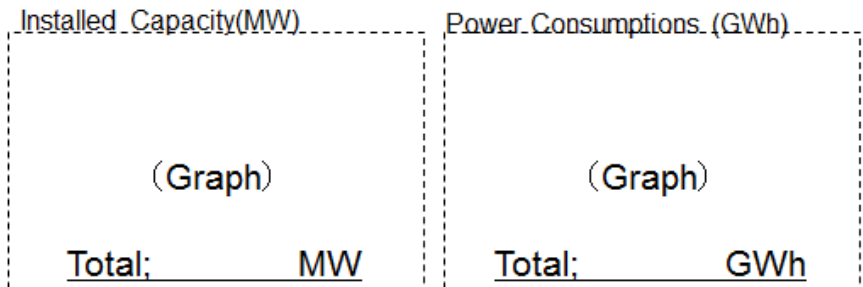
Source: Google Map

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3 Power Supply System (Company name, Organization)



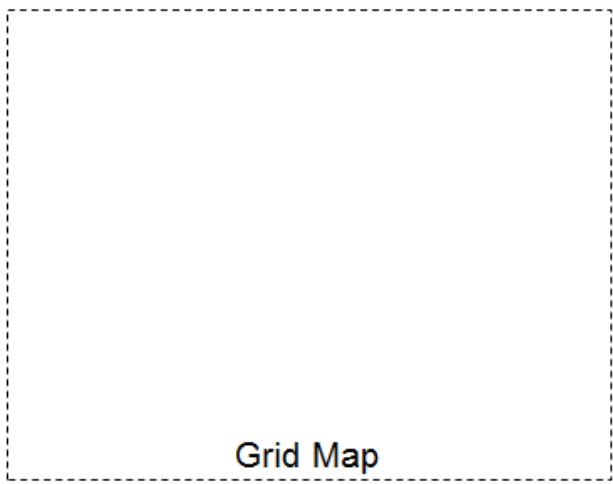
4 Installed Capacity, Power Consumption (As of 200X)



	Hydro	Thermal	Nuclear	Others	Total
Installed Capacity (MW)					
	Residential	Commercial	Industrial	Others	Total
Power Consumption (GWh)					

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5 Power Stations, Power Grid



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Outline of Distribution System (Overhead)



① HV Line	Voltage: 66kV, 157kV, 275kV, 500kV
1 Transformer	(Urban) 30MVA x 3 (Rural) 10MVA-20MVA x 3
② MV Line	Voltage: 6.6kV, 22kV Isolated Neutral System
2 Relay	OCR (Over Current Relay) DGR (Directional Ground Fault Relay)
3 Pole	Concrete, Steel, Wooden
Wire	Al, Cu (Insulated)
Switches	Type: AS(Air), VS(Vacuum) Operation: Automatic, Manual
③ LV Line	Voltage: 100V, 100/200V
4 Transformer	10, 30, 50, 75, 100 (kVA)
5 Meter	Mechanical, Electrical (Smart meter)

Transmission Facilities (Pictures)

Equipment	Number	
Tower		units
Circuit Length	○○○kV	circuit-km
	○○○kV	circuit-km
	○○○kV	circuit-km
Transformer	○○○kV	MVA
	○○○kV	MVA
	○○○kV	MVA

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Transmission Loss

(1) Historical Data

Year	FY2007	FY2008	FY2009	FY2010	FY2011
Distribution Loss (%)					

(2) Detail of Loss

Technical ** approx. %
Non Technical*** approx. %

(3) Measure for Loss Reduction

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Reliability (SAIDI SAIFI), Cause of Power Failure

		FY2010	FY2011	FY2012
SAIDI ^{※1}				
SAIFI ^{※2}				
Total number of failures				
Cause	Lightning			
	Tree contact			
	Bird and Beast			
	Wind/ Rainstorm			
	Old facilities			
	Human Caused			
	Unknown			
	Others			

- ※ 1 System Average Interruption Duration Index (hours/year・customer)
 ※ 2 System Average Interruption Frequency Index (times/year・customer)

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Part 2 Issue Analysis Report

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Facing Issues (1)

Organization	△△ Engineer. ○○ Dept. XXX Electric Power Company
Current Duties	1. . . . 2. . . . 3. . . .

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<u>Issue</u>	
<u>Causes</u>	1. 2. 3.
<u>Countermeasure</u>	1. 2.

Facing Issue (2)

<u>Issue</u>	
<u>Causes</u>	1. 2. 3.
<u>Countermeasure</u>	1. 2.



Expectation for this Training Course

No.	Topic	Detail
1		
2		
3		

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner (developing) countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to developing countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to developing countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called a Training Program, and it is one of the core programs carried out in Japan. By inviting officials from developing countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs is being customized by the different target organizations to address the specific needs, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving the tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply

such experiences to developing countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems in developing countries.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



Contact Information for Inquiries

For enquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:

JICA Kansai Center (JICA Kansai)

Address: 1-5-2, Wakinohama-kaigandori, Chuo-ku, Kobe, Hyogo 651-0073, Japan

TEL: +81-78-261-0388/0341 FAX: +81-78-261-0465