



# Knowledge Co-Creation Program (Group & Region Focus)

## GENERAL INFORMATION ON

### GEOHERMAL POLICY AND STRATEGY PROGRAM FOR EXECUTIVES

### 課題別研修「地熱エグゼクティブプログラム」

**JFY 2017**

**NO. J1704180 / ID. 1784853**

**Course Period in Japan: From November 12, 2017 to November 18, 2017**

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

#### 'JICA Knowledge Co-Creation (KCC) Program' as a New Start

In the Development Cooperation Charter which is released from the Japanese Cabinet on February 2015, it is clearly pointed out 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 center of mutual learning process.

# ***I. Concept***

## **Background**

In order to promote geothermal energy resources development in countries with high potential, it is essential to develop human resources and to procure funds.

For many countries with high geothermal energy potential, it is also important to consider the optimal balance of public and private investment throughout the life cycle of geothermal development, starting with surface survey, exploratory drilling, resources assessment, steam development, plant construction, and plant operation and management.

In order to tackle these issues, and to meet the strong requests from our client countries with geothermal resources, JICA has decided to develop this KCC program. Participants are expected to acquire and to share planning and management knowledge of geothermal development policy and strategy.

## **For what?**

The one-week program is designed for executive partners to discuss geothermal development from policy and strategy perspectives. The program will introduce geothermal law of specific countries, project economic evaluation models, and analysis of country case studies of public and private investment.

## **For whom?**

This program is offered for managerial officers who are currently engaged in managing and administering geothermal development in their respective countries.

## **How?**

Participants shall have opportunities to learn the knowledge required to improve the geothermal policy and strategy in Japan. Partners will discuss the issues such as the role of public and private sectors, and investment climate to attract private investment based on the participants' country reports and from JICA's latest research. Japanese executives of the private sector, government and academia will join the discussion and to network with visiting partners.

## ***II. Description***

**1. Title (J-No.):**

Geothermal policy and strategy program for executives (J1704180)

**2. Course Period in JAPAN:**

November 12, 2017 to November 18, 2017

**3. Target Regions or Countries:**

Bolivia, Djibouti, El Salvador, Ethiopia, Indonesia, Kenya, Peru and Tanzania

**4. Eligible / Target Organization:**

This program is offered to governmental organization in charge of geothermal development

**5. Course Capacity (Upper limit of Participants):**

12 participants

**6. Language to be used in this project:**

English

**7. Overall Goal:**

Each participant will formulate an Action Plan that aims to improve the geothermal policy and strategy in their respective countries.

**8. Course Objective:**

This program will train executive officers in geothermal resource development to improve the geothermal policy and strategy.

- i. To achieve this program objective, participants are expected to achieve the followings in Japan;
  - (1) To acquire knowledge about geothermal policy, investment climate, and geothermal power plant investment.
  - (2) To understand the current status and issues of geothermal policy and strategy of participating countries and of Japan.
  - (3) To network with executives from participating countries and Japan.
- ii. When participants return to their respective countries, we also expect that they share their Action Plan with their department and/or organization in order to implement the proposals made in the plan.

## 9. Expected Module Output and Contents:

This program consists of the following components. Details on each component are given below:

Expected Module Output	Subjects/Agendas	Methodology
1) To acquire knowledge about geothermal policy, investment climate, and power plant investment	<ul style="list-style-type: none"><li>- geothermal law around the world</li><li>- barriers of geothermal development</li><li>- project economic evaluation model</li><li>- track record of public and private investments around the world</li><li>- role of state-owned enterprise</li><li>- appropriate institutional frameworks</li></ul>	Lecture
2) To understand the current status and issues of geothermal policy and strategy of participating countries and of Japan	<ul style="list-style-type: none"><li>- policy and barriers for geothermal development in participating countries and Japan</li><li>- overview of the latest geothermal development technology</li></ul>	Lecture Field Visit
3) To network with executives from participating countries and Japan.	<ul style="list-style-type: none"><li>- networking with executives participating countries and Japan</li></ul>	Networking event

**<Structure of the program>**

1. Preliminary phase (activities in your home country):  
Preparation of Country Reports
2. Core Phase (activities in Japan):  
Refer to page 3 and tentative schedule as next page

**Formulation of Action Plan**

Participants are required to develop an Action Plan (AP) based on the knowledge and skills acquired during the course. The AP should be practical and applicable to one's own professional activity/career from the viewpoint of geothermal development.

### Tentative Schedule (JFY 2017)

		Morning	Afternoon
Nov.	12	Sun	Arrival in Japan
	13	Mon	Briefing / Program Orientation Geothermal law around the world, track record by public and private investment and appropriate institutional framework
	14	Tue	Field trip to geothermal power plant
	15	Wed	Field trip to geothermal related sites Visit geothermal turbine manufacturing company
	16	Thu	Geothermal development policy in Japan Geothermal development technology in Japan JICA's cooperation for geothermal development Country report presentation Networking event with industry, government and academia in Japan
	17	Fri	Project economic evaluation model Action Plan presentation / Program evaluation meeting / Closing Ceremony / Farewell Party
	18	Sat	Leave Japan for Home Countries

\*This schedule is subject to change.

### ***III. Conditions and Procedures for Application***

#### **1. Expectations from the Participating Organizations:**

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (2) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.
- (3) Participating organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose.
- (4) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the project 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: managerial official or equivalent and currently engaged in geothermal development.
- 2) Experience in the relevant field: have more than ten (10) years working experience in the above mentioned field.
- 3) Educational background: be a graduate of university or equivalent level, preferably with a background of engineering or science.
- 4) Language: have a competent command of spoken and written English which is equal to TOEFL iBT 100 or more (This workshop includes active participation in discussions, which requires high competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC, etc., if possible).
- 5) Health: must be in good health, both physically and mentally, to participate in the program in Japan. Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus.

##### **(2) Recommendable Qualifications**

Below the age of fifty (50) years

### 3. Required Documents for Application

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

**(2) Country Report:** to be submitted with the application form. (Please refer to “V. Other Information, 1. Reports and presentation: (1) Country Report” for details)

**(3) Photocopy of passport:** to be submitted with the application form, if you already possess a passport that you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it.

\*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expire date.

**(4) Nominee’s English Score Sheet:** to be submitted with the application form. If you have any official documentation of English ability. (e.g., TOEFL, TOEIC, IELTS)

### 4. Procedures for Application and Selection:

#### **(1) Submission of the Application Documents:**

Closing date for applications: **Please inquire to the JICA office (or the Embassy of Japan)**.

After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Kyushu Center in Japan** by **September 25, 2017**.

#### **(2) Selection:**

After receiving the documents through proper channels from your government, the JICA office (or the embassy of Japan) will conduct screenings, and then forward the documents to the JICA Kyushu Center in Japan. Selection will be made by the JICA Center in consultation with concerned organizations in Japan. The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection. Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.

#### **(3) Notice of Acceptance:**

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than October 13, 2017**.



**5. Document(s) to be submitted by accepted candidates:**

None.

Soft (data) and hard copy of Country Report should be brought to Japan along with participants.

**6. Conditions for Attendance:**

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

## IV. Administrative Arrangements

### 1. Organizer:

(1) **Name:** JICA Kyushu International Center (KIC)

(2) **Contact:** kictp@jica.go.jp

### 2. Implementing Partner:

(1) West Japan Engineering Consultants, Inc. (West JEC)

(2) **URL:** <http://www.wjec.co.jp/root/english/>

### 3. Travel to Japan:

(1) **Air Ticket:** The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) **Travel Insurance:** Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

### 4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

#### 1. JICA Kyushu International Center (JICA Kyushu / KIC)

Address: 2-2-1 Hirano, Yahatahigashi-ku, Kitakyushu-shi, Fukuoka, 805-8505, Japan  
TEL: 81-93-671-6311 FAX: 81-93-671-0979

#### 2. Hotel in Tokyo and other places

("81": country code for Japan, "93": local area code)

If there is no vacancy at JICA Kyushu, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of KIC at, <http://www.jica.go.jp/english/contact/domestic/>

### 5. Expenses:

The following expenses will be provided for the participants by JICA:

(1) Allowances for accommodation, meals, living expenses, outfit, and shipping

(2) Expenses for study tours (basically in the form of train tickets.)

(3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)

(4) Expenses for program implementation, including materials

For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSU-IN GUIDE BOOK," which will be given before departure for Japan.

**6. Pre-departure Orientation:**

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, living conditions in Japan, and other matters.

## ***V. Other Information***

### **1. Reports and presentation:**

#### **(1) Country Report**

As written in the previous page, each applicant is required to submit his/her own Country Report. Participants will have a presentation of his/her Country Report about 15 minutes in order to share knowledge and background with other participants as well as instructors. When you use Power Point in the presentation, it is preferable to use font size of more than 24 points and not to use pictures on the background.

#### **(2) Action Plan**

Participants are required to write an Action Plan by the end of the training to express your idea and plan, which you will carry out after your return, reflecting the knowledge and method you acquire from the training. Each participant will have about 15 minutes for presentation.

#### **(3) Laptop PC**

Participants are strongly recommended to bring their own laptops and USB flash memory with them. They will be useful to take notes, modify reports, and prepare for presentations. If one does not bring their own PC, then she/he can check out from KIC library, but please be reminded that only English OS is available.

Adopter is necessary to use electric devices in Japan.

### **2. Remarks:**

JICA training is implemented for the purpose of development of human resources that will promote the development of the countries, and not for the enrichment of private companies. Matters of a trade secret and patent techniques will remain confidential and inaccessible during the training.

## **VII. ANNEX I**

### **Geothermal policy and strategy program for executives (JFY 2017)**

#### *Country Report*

Name of applicant:

Country:

Organization and present post:

E-mail:

**Remarks 1:** The Report should be **typewritten in English (12-point font, A4 size paper)**, and total pages of the report must be **limited to 3 pages**.

**Remarks 2:** Each participant is required to have presentation in 15 minutes based on this Country Report for the purpose of making the training more effective and fruitful by comprehending the situations and problems of the participants each other.

**Remarks 3:** For Country Report presentation, we recommend that you will use visual aids such as Power Point, slides, films, and other materials

**Remarks 4:** Please itemize your answers and make them specific.

#### **1. Role and Significance of Geothermal Energy in the National Energy Mix:**

- (1) Why do you think your country needs to develop geothermal energy?
- (2) What are the pros and cons of geothermal development in your country?

#### **2. Present situation of geothermal development in your country:**

- (1) Describe the situation of your country's power sector of your country in terms of total installed capacity and the contribution of geothermal power plants to the Power (MW) and Energy (GWh) markets.
- (2) Describe a brief history of geothermal power development.
- (3) Describe the geothermal promotional surveys conducted or being conducted in your country.
- (4) Describe any policies your government has in order to increase the utilization of renewable energy. Also, are there any special policies to promote geothermal energy?

**3. Describe the barriers affecting geothermal development. For example:**

- Generation cost
- Leading time
- Location of geothermal sites in national parks or protected areas
- Environmental limitations
- Allocation of risk money for exploration

**4. Existing challenges in your current department and/or organization.**

- (1) Challenges you are facing in your current department and/or organization  
(Please describe concrete details).
- (2) Countermeasures for these challenges.
- (3) Obstacles in the process of solving those challenges.

**5. Expectations for the training course**

- (1) How do you expect to apply the skills and knowledge after you return to your home country?
- (2) Other matters you are expecting for this course, if any.  
(Please be advised that the schedule for this training program is already fixed. Therefore, requests to change any part of the program cannot be accommodated.)

## ***For Your Reference***

### **JICA and Capacity Development**

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 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 are being customized to address the specific needs of different target organizations, 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 was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

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.



***CORRESPONDENCE***

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

**JICA Kyushu International Center (JICA KYUSHU)**

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