



Knowledge Co-Creation Program (Group and Region Focus)

# Promotion of Energy Efficiency and Conservation (c)



Course Number: **202313579J001**

Course Period: **June 13 - July 6, 2024**



NOTE: Adobe Acrobat Reader DC and Google Chrome are recommended as PDF viewer. JAWS and NVDA are recommended as screen reader.  
NOTE: If there are any difficulties in reading this document, please contact JICA Office in your country or JICA Center in Japan.  
NOTE: Depending on the circumstances, some or all of the program periods may be changed or cancelled after the application has been accepted.

# Outline



Opportunities to obtain knowledge on specific measures and cases on the industrial, commercial and residential sectors from the aspect of energy saving technologies, energy management and operations.



Expected to establish a new network between participants.



All sessions are carried out in Spanish.



The period is from 13 June to 6 July, 2024.

Course Capacity: 8 participants



## **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.

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# For What?

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## Background

Under the Paris Agreement, an international framework on climate change from 2020, significance of low-carbon socio-economic development has become a major development issue not only in developed countries, but also in developing countries, which contribute remarkable economic growth. As the International Energy Agency (IEA) predicts most of the global increase in greenhouse gas emissions will come from developing countries for the next two decades.

In order to address the global goal of reducing carbon dioxide and, in the long term, decarbonizing without hindering economic growth, it is necessary to promote energy efficiency more strongly than ever, along with promoting the introduction of renewable energy. Japan highly depends on energy resources abroad and has long history of commitment on energy efficiency. In the wake of two oil crises in the 1970s, the society came together to improve energy efficiency which led Japan's energy conservation to the highest level amongst the world. Through the experience, Japan

holds a great comparative advantage in the field of energy efficiency and conservation in terms of policy, institution and technology.

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## Objectives

The course is specialized in the industrial, commercial, transportation and residential sectors. In addition to the core curriculum common to all courses; the participants obtain knowledge on specific measures and cases to focus on the industrial, commercial and residential sectors from the aspect of energy saving technologies, facilities, energy management, control technologies and operation.

# To Whom?

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## Job Areas and Organizations

This program is targeted to government officials in charge of promotion of energy efficiency and conservation in particular in industrial, commercial, transportation and residential sectors at central government, local government organization and public service corporations.

Applying organizations with the best intention to utilize the opportunity of this program will be highly valued in the selection.

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## Targeted Countries

Dominican Republic  
Guatemala  
Paraguay  
Mexico  
Ecuador

Capacity (Upper Limit of Participants):  
8 participants

Participants who have successfully

# When?

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## Face-to-Face Program



From, June 13<sup>th</sup>, 2024  
To July 6<sup>th</sup>, 2024

There is a possibility that participants must arrive to Japan in advance for a certain period to follow the border measures.

# Where?

This course is organized by JICA  
Yokohama Center.



# How?

## How to Learn

- Lectures
- Field Visits
- Discussions
- Presentations



Listen



Interact



Discuss



Present

## Language

Spanish (Some lecture materials will be in English)

## Output and Contents

Expected Output	Subjects/Agendas	Methodology
To understand the priority sectors and technologies and policies in <u>own country</u> .	<ul style="list-style-type: none"> <li>• Understanding global and Japanese trends</li> <li>• Understanding own country's energy conditions and issues based on "energy balance"</li> <li>• Understanding the measures to visualize "energy balance"</li> <li>• Gap and impact analysis between global/Japanese trends and own country conditions</li> <li>• Action Plan Guidance</li> <li>• Evaluation meeting/group discussion</li> <li>• Action Plan Presentation</li> </ul>	Lecture Presentation and Exercise
To understand <u>Japan's</u> energy conservation policies, regulation energy conservation technologies, and energy conservation promotion measures.	<ul style="list-style-type: none"> <li>• Overall picture of energy conservation policy in Japan</li> <li>• Japan's Energy Conservation Legislation</li> <li>• Policies/regulations/ incentives to promote energy conservation in transportation, industrial and commercial and residential sectors</li> <li>• Eligible energy conservation technologies</li> <li>• Energy Statistics in Japan</li> <li>• Energy conservation policies of local governments</li> <li>• Public Relations for Energy Conservation</li> <li>• Energy Management Programs</li> <li>• Energy audit</li> </ul>	Lecture Field visit and Exercise
To understand specific measures for energy efficiency, effectiveness, and benefits.	<ul style="list-style-type: none"> <li>• Energy conservation in the transportation sector (electric vehicles ((EV)) and EV charging system)</li> <li>• Zero Energy Building(ZEB), Zero Energy House(ZEH)</li> <li>• Heat pumps</li> <li>• District cooling and heating</li> </ul>	Lecture Field visit and Exercise

## Program Structure (Sample Schedule)

Month	Day		Schedule
June	13 (Thu)		Arriving in Japan
	14 (Fri)		Course Orientation & Program Guidance
		Lecture	Purpose of Energy Conservation and Global Trend
	15 (Sat)		
	16 (Sun)		
	17 (Mon)	Presentation	Country Report
		Lecture	National Energy Balance Analysis and Participants country's National Energy Balance Analysis
	18 (Tue)	Lecture	Toward the Action Plan
		Lecture	Energy Statistics
		Lecture	The Overall View of Energy Conservation Policy and Law in Japan
	19 (Wed)	Lecture	Outline and Japanese law for EEC regarding Building
		Lecture	Energy Conservation Measures for Residence (incl. latest labeling for refrigerator, room AC etc.)
		Lecture	Zero Energy Building (ZEB)
	20 (Thu)	Lecture	Energy Conservation Measures for Transportation(overall including restriction for shipper, and MEPS)
		Lecture	Energy Conservation Policy for second used car
		Lecture	EV: measure for promotion (law for promotion, subsidy, role for each ministries and private sector)
	21 (Fri)	Lecture	EV charging
Lecture		Carbon neutral logistics efforts through energy conservation of commercial vehicles	
Site Visit		EV site visit (charging station& EV Car)	
22 (Sat)			
23 (Sun)			



Month	Day		Schedule
	24 (Mon)	Lecture	EV Promotion + DSM
			Moving to Kansai Area (Bullet Train)
	25 (Tue)	Site Visit	Sumoto Energy Park (PV,Biomass,Wind,EV)
	26 (Wed)	Site Visit	Hydrogen Smart City Kobe (Hydrogen power station, Hydrogen station)
		Site Visit	Kewpie Kobe Factory (NetZero Factory)
	27 (Thu)	Site Visit	Daikin Sakai Rinkai Plant (Air Conditioner) Energy saving in factories mainly for commercial use
		Site Visit	Kyoto Environmental Activities Association (General Environment Education)
	28 (Fri)	Site Visit	Kansai Electric Power Sakaiko Power Station (High Efficiency LNG Thermal Power Plant)
		Site Visit	Kyoto Environmental Activities Association (General Environment Education)
	29 (Sat)		
30 (Sun)			
July	1 (Mon)	Lecture	Heat Pump + Thermal Storage System (EE&C + RE)
		Lecture	District Heating ,Cooling System for Area Energy Supply
			Action Plan Draft review
	2 (Tue)	Lecture	Renewable Energy and Grid Interconnection Systems
		Site Visit	MM21DHC Plant
	3 (Wed)	Lecture	Lecture on FIT from Tokyo Electric Power Company
		Site Visit	Energy Conservation House
	4 (Thu)	Group Work	Action Plan Preparation
	5 (Fri)	Presentation	Action Plan
	6 (Sat)		Departure from Japan

# Eligibility and Procedures

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## 1. Expectations to the Applying 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 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.

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## 2. Nominee Qualifications

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

### (1) Essential Qualifications

#### 1) Target Organization:

Department of energy policy of central government, local government organization and public service corporations.

## 2) Target Personnel:

### <Position>

Applicants in charge of energy efficiency and conservation at the target organizations mentioned above.

### <Experience>

Applicants are engaged in policy or promotion for energy efficiency and conservation for more than 2 years.

### <Education Background>

Applicants must have a good command of energy efficiency engineering in general.

### <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).

### < Health>

Must be in good health, both physically and mentally, to participate in the Program.

### < Basic Knowledge of Computer Skills>

Participants are required to prepare several documents in MS Word and MS PowerPoint. Therefore, it is essential to handle these computer soft wares to complete this training program activities

## (2) Recommended Qualifications

### 1) Expectations for the Participants:

Preferably, be in relation with past or on-going JICA projects targeting energy efficiency and conservation.

### 2) Gender Equality and Women's Empowerment:

Women are encouraged to apply for the program. JICA makes a commitment to promote gender quality and women's empowerment, providing equal opportunity for all applications regardless of sexual orientation and gender identity.

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### 3. Required Documents for Application

(1) **Application Form:**

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

If you have any difficulties/disabilities, which require assistance, please specify necessary assistances in the Medical History of the application form. It may allow us (people concerned in this course) to prepare better logistics or alternatives.

(2) **Photocopy of Passport:**

To be submitted with the application form, if you possess your passport which 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 Expiry 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)

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### 4. Procedures for Application and Selection

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

Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).

**Deadline of submission are as follows:**

**By April 22, 2024**

(2) **Selection**

Primary screening is conducted at the JICA overseas 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**

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than May 10, 2024.**

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## **5. Additional Document to be Submitted by Accepted Candidates**

### **Country Report (ANNEX)**

- Accepted candidates are required to prepare a Country Report (Please read Annex "Country Report" for detailed information.) before their departure.
- The Report should be typewritten in English (11-point font, A4 size paper) and total pages of the report should be limited to 4 pages (not including organization chart).
- Each one of you are required to have presentation of 10 minutes based on this Country Report at the early stage of training in order to share knowledge and background with other participants as well as instructors. Visual materials such as PowerPoint and pictures may be helpful for your presentation to bring with you.

**The Country Report should be sent to JICA by May 31, 2024, preferably by e-mail to yictt1@jica.go.jp**

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## **6. Conditions for Participation**

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the air ticket (and flight class and flight schedule arranged by JICA) and lodging by the participants themselves,
- (3) to understand that leaving Japan during the course period (to return to home country, etc.) is not allowed (except for programs longer than one year),

- (4) not to bring or invite any family members (except for programs longer than one year),
- (5) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Japanese Government in respect of the course,
- (6) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (7) not to engage in political activities, or any form of employment for profit,
- (8) to discontinue the program, should the participants violate the Japanese laws or JICA's regulations, or the participants commit illegal or immoral conduct, or get critical illness or serious injury and be considered unable to continue the course. The participants shall be responsible for paying any cost for treatment of the said health conditions except for the medical care stipulated in (3) of "3.Expenses", "Administrative Arrangements",
- (9) to return the total amount or a part of the expenditure for the KCCP depending on the severity of such violation, should the participants violate the laws and ordinances,
- (10) not to drive a car or motorbike, regardless of an international driving license possessed,
- (11) to observe the rules and regulations at the place of the participants' accommodation, and
- (12) to refund allowances or other benefits paid by JICA in the case of a change in schedule.

# Administrative Arrangements

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## 1. Organizer (JICA Center in Japan)

- (1) Center: JICA Yokohama Center (JICA YOKOHAMA)
  - (2) Program Officer: Ms. HAMAGUCHI Misaki ([yictt1@jica.go.jp](mailto:yictt1@jica.go.jp))
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## 2. Travel to Japan

- (1) **Air ticket:**  
In principle, JICA will arrange a round-trip ticket between an international airport designated by JICA and Japan.
  - (2) **Travel Insurance:**  
Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan (include damaged baggage during the arrival flight to Japan) will not be covered.
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## 3. Accommodation in Japan

Basically, JICA will arrange accommodation(s) for participants in Japan.

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## 4. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses, outfits, and shipping and stopover.
- (2) Expenses for study tours (basically in the form of train tickets).
- (3) Medical care for participants who become ill after arriving in Japan (the costs related to pre-existing illness, pregnancy, or dental treatment are not included).
- (4) Expenses for program implementation, including materials.
- (5) 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.

\*Link to JICA HP (English/French/Spanish/Russian):

[https://www.jica.go.jp/english/our\\_work/types\\_of\\_assistance/tech/accept](https://www.jica.go.jp/english/our_work/types_of_assistance/tech/accept)

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## 5. Pre-departure Orientation

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

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	<a href="https://www.youtube.com/watch?v=SLurfKugrEw">https://www.youtube.com/watch?v=SLurfKugrEw</a>
French ver.	<a href="https://www.youtube.com/watch?v=v2yU9lSYcTY">https://www.youtube.com/watch?v=v2yU9lSYcTY</a>
Spanish ver.	<a href="https://www.youtube.com/watch?v=m7l-WlQSDjI">https://www.youtube.com/watch?v=m7l-WlQSDjI</a>
Russian ver.	<a href="https://www.youtube.com/watch?v=P7_ujz37AQc">https://www.youtube.com/watch?v=P7_ujz37AQc</a>
Arabic ver.	<a href="https://www.youtube.com/watch?v=1iBQqdpXQb4">https://www.youtube.com/watch?v=1iBQqdpXQb4</a>
Part II: Introduction of JICA Centers in Japan	
JICA Yokohama	<a href="https://www.jica.go.jp/yokohama/english/office/index.html">https://www.jica.go.jp/yokohama/english/office/index.html</a>

If the link of these youtube URLs has expired, please access the URL below and search the necessary information from the key word.

<https://www.youtube.com/user/JICAChannel02>

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## 6. Reference

### PDF: KENSHU-IN GUIDE BOOK

For more detailed terms and conditions

[https://www.jica.go.jp/english/our\\_work/types\\_of\\_assistance/tech/acceptance/training/c8h0vm000011i07-att/guide\\_en.pdf](https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/c8h0vm000011i07-att/guide_en.pdf)



### Video: JICA Predeparture Briefing

For more information on life in Japan and KCCP

<https://www.youtube.com/watch?v=SLurfKugrEw>



### Website: JICA

English/French/Spanish/Russian

[https://www.jica.go.jp/english/our\\_work/types\\_of\\_assistance/tech/acceptance/training/index.html](https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html)





# Other Information

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## Action Plan

Participants are required to make an Action Plan at the end of the training to express your idea and plan that you carry out after your return, reflecting the knowledge and method you acquire in the training.

Each person will have 10 minutes for presentation.

# Annex

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## Country Report

### Information and Data on Basic Energy and Power of your Country

Accepted applicants are expected to fill the form and submit it to JICA center (e-mail: [yicctt1@jica.go.jp](mailto:yicctt1@jica.go.jp)), before arriving in Japan.

Country: \_\_\_\_\_

Name: \_\_\_\_\_

Email address: \_\_\_\_\_

#### 1. Energy Situation in your country (up to 1 page)

- (a) Primary energy supply mix (circle graph).
- (b) Self-sufficient rate of energy supply.
- (c) Final energy consumption mix (circle graph).
- (d) Electric power supply mix (circle graph).
- (e) Electrification cover rate.
- (f) Enactment & Enforcement situation of energy conservation law &/or regulation.
- (g) Typical electricity daily load curve

#### 2. Organization and main tasks (up to 1 page)

- (a) Main tasks of the organization.
- (b) Organization chart:  
Please draw a chart of your organization, including the department (section) names with the number of staffs in it and mark where you are positioned.
- (c) (The chart should be attached and not be counted in this page limit.)  
Please describe a duty of each department (section) briefly.
- (d) Brief description of your assignments.
- (e) Explain the relation of your assignments and “energy efficiency and conservation technology in industrial, commercial and residential sectors”.
- (f) Problem in your job.

#### 3. Expectations for the training course (up to 2 pages)

- (a) Your purpose of participating in the course.
- (b) Subjects of the course which you are interested in the most.
- (c) How do you expect to apply skills and knowledge for your return to your home country?

- (d) Other matters which you are expecting to obtain from the course.
- (e) Have you ever learned the following subjects in your work? We want to know your work experience. Please check either “Yes” or “No”.
- (f) If your answer is “Yes”, please fill in “Years” column as to the length of your application on the respective items.

Contents	Yes	No	Years
Energy administration			
Energy Management			
Air conditioning system			
Lighting equipment			
Fan, blower or pump			
Inverter system			
Heat pump system			
Boiler			
Power receiving and transforming facilities such as transformer			
Renewable Energy			
Other			

# For Your Reference

## JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner 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 partner 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 Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner 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 courses 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 its 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 from a process of adoption and adaptation, 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 other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

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.

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.



## **Correspondence**

For enquiries and further information, please contact the JICA office or Embassy of Japan.

**Further, address correspondence to:**

### **JICA Yokohama Center (JICA Yokohama)**

Address: 3-1, Shinko 2-chome, Naka-ku, Yokohama City, Kanagawa Prefecture 231-0001

TEL: +81-45-663-3221

("81" is the country code for Japan, and "45" is the local area cod)