



Knowledge Co-Creation Program (Group and Region Focus)

Promotion of Renewable Energy Introduction and Power Demand Supply Optimization under Renewable Power Supply (A)



Course Number: 202411687J001

Course Period: November 19- December 13, 2025



再生可能エネルギー導入促進及び導入時の電力需給最適化（A）



How can we promote renewable energy and introduce efficient power demand supply system?



Acquire theoretical and effective solutions for sustainable energy supply system through the introduction of renewable energy by practical training in Japan!

Outline

This training course is designed for government officials and power company workers engaged in related operations for the renewable energy promotion and optimization of electricity demand-supply.

The training will be conducted in Japan. Lectures, discussions, field visits and presentations will be conducted face-to-face.

All sessions are carried out in English.

The period of the program is from November 19 (Wed) to December 13 (Sat), 2025.

Course Capacity: 13 participants.

JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in June 2023, 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?

Background

Renewable energies such as solar and wind power is expanding worldwide. While many developing countries are being called upon to promote the introduction of renewable energy towards the realization of a decarbonized society, various issues related to power systems due to the fluctuations of renewable energy are becoming apparent, and it is required to conduct urgent responses. In this training, JICA provides opportunities to learn 1) promotion policy of renewable energy and 2) issues and countermeasures/new technologies related to power systems that arise with the expansion of renewable energy, aiming to achieve the specified training objectives for personnel who are at the core of power policy and grid development in developing countries.

Objectives

Participants will improve their capabilities on the implementation of renewable energy and its sustainable power system and formulate an action plan adjacent to the conditions of each country.

To Whom?

Job Areas and Organizations

This training course is designed for government officials and power company workers engaged in related operations for the renewable energy promotion and optimization of electricity demand-supply.

*The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.

Targeted Countries

- Cambodia
- Egypt
- Indonesia
- Kenya
- Laos
- Mexico
- Nigeria
- Philippines
- Sri Lanka
- Tunisia
- Uganda
- Ukraine
- Vietnam

*Participants who have successfully completed the program will receive a certificate of completion issued by JICA.

When?

Program Period



From November 19 (Wed.)
to December 13 (Sat.), 2025

Where?

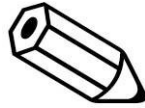
This program is a face-to-face program in Japan, organized by JICA Yokohama. The program includes field visits to various facilities in Japan.



How?

How to Learn

- Research
- Workshops
- Discussions
- Field Visits
- Presentations



Study



Discuss



Listen



Interact



Present



Experience

Language

English

Commitment to the SDGs

**SUSTAINABLE
DEVELOPMENT
GOALS**



Program Structure

Preliminary Phase

All accepted applicants are required to submit “Country Report” by **November 3 (Mon), 2025** Japan time.

Phase in Japan:

The conceptual framework of the training program in Japan is shown in the figure below. During the program, participants are requested to formulate an Action Plan to solve issues in their respective countries and make presentations on their Action Plan at the final stage of the program.

Participating organizations are responsible for supporting the participant in sharing knowledge acquired during the program within the organization and implementing the Action Plan developed by the participant.

Phase in Japan *subject to change.		
Course Outputs:	Subjects/Agendas	Methodology
1. Participants learn about the promotion of renewable energy and issues arising on the power system.	(1) Lectures on the overview of renewable energy technologies. (2) Lectures on the economic evaluation methods of renewable energy. (3) Lectures on the promotion of renewable energy. (4) Field visits to renewable energy powerplants. (Solar and wind power.)	Lectures, discussions, field visits.
2. Participants learn about the countermeasures (technologies and systems) related to the optimization of power supply.	(1) Lectures on the regional operation for output leveling and interchanging adjustment capacity. (2) Lectures on the improvement of flexibility of conventional power sources. (3) Lectures on the renewable energy output prediction and adjustment technology. (4) Lectures on the energy storage technology including pumped-storage power generation. (5) Field visits to the above-mentioned related facilities.	Lectures, discussions, field visits.

3. Participants learn about the countermeasures (technologies and systems) related to the optimization of power demand.	(1) Lectures on the demand response based on electricity rate policy. (2) Lectures on the utilization of energy storage facilities such as batteries, utilization of EVs, and hydrogen energy storage. (3) Field visits to the above-mentioned related facilities.	Lectures, discussions, field visits.
4. Participants formulate an Action Plan to address the development plans for their respective countries.	(1) Formulation and presentation of an Action Plan.	Lectures, discussions, field visits.

Eligibility and Procedures

1. Expectations to the Applying Organizations

- 1) This program is designed primarily for organizations with the intention of addressing specific issues or problems identified in their operations. Applying organizations are expected to use the program for those specific purposes.
- 2) In this connection, applying organizations are expected to nominate the most qualified candidate(s) to address the said issues or problems, carefully referring to the qualifications described in section 2 below.
- 3) After being accepted to the program and before the start of the course in Japan, the participating organizations are expected to support participants in selecting possible topics or ideas for their Action Plan.
- 4) The participating organizations are expected to relieve the participants from their daily obligations so that they may fully devote themselves to the training program. Based on this arrangement, all applicants are requested to submit a “**Written Pledge**” (see Attachment-1) along with the Application Form
- 5) The participating organizations are also expected to hold knowledge-sharing sessions within the organization and support the implementation of the Action Plan after the participants finish the phase in Japan, to make the best use of knowledge to be acquired through the program.

To enter Japan, regardless of nationality, participants will need to follow the border control measures of the Government of Japan:

<https://www.mhlw.go.jp/stf/covid-19/bordercontrol.html>

2. Nominee Qualifications

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

【Remarks】 Each organization is requested to strongly encourage female candidates to apply for the course to accelerate the realization of gender equality and women's empowerment.

2-1. Essential Qualifications

1) Target Organization:

Central government and power companies engaged in related operations for the renewable energy promotion and optimization of electricity demand-

supply.

2) Target personnel:

<Position>

Personnel who have been engaged in operations related to renewable energy promotion or optimization of power demand-supply at the central government/power companies for more than three years, and plan to continue working on related operations after returning to their home country.

<Education Background>

Should be a university graduate from the faculty of engineering or have the equivalent educational history.

<Language>

Should have sufficient command of spoken and written English proficiency equivalent to TOEFL iBT 100 or above. (Participants are expected to take part in discussions throughout the training program, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC etc., if available.)

<Health>

Must be in good health, both physically and mentally, to participate in the program. To reduce the risk of worsening symptoms associated with respiratory tract infection, please be honest to indicate on the “Medical History” part on your application form: Hypertension/Diabetes/ Cardiovascular illness/Heart failure/Chronic respiratory illness.

Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus. Because live vaccines administered to a pregnant woman pose a theoretical risk to the fetus; therefore, live, attenuated virus and live bacterial vaccines generally are contraindicated during pregnancy.

Please refer to the following:

<https://www.cdc.gov/vaccines/pregnancy/hcp-toolkit/guidelines.html>

2-2. Recommendable Qualifications

1) Age: be between the **ages of thirty and fifty years old**.

2) PC Skills

Basic computer skills (i.e., MS-Word, Excel, and PowerPoint) are desirable as participants will be required to prepare reports and presentation materials using a computer.

3. Required Documents for Application

1) Application Form

The Application Form is available at the JICA Overseas Offices (or Embassies of Japan). Application Form should be typed in English in Microsoft Word format.

* If you have any issues/disabilities which require assistance, please specify in the QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION (1-(c)) of the application form. Information shall be reviewed and used for the logistical arrangements, such as accommodation allocation.

2) Photocopy of Passport

Please submit a scanned copy of the applicant's passport which he/she carries when entering Japan, together with the application form. If it cannot be submitted by the application deadline, please submit it as soon as he/she obtains it.

*The photocopy of his/her passport should include name in full, date of birth, nationality, sex, passport number and date of expiry.

3) Written Pledge

Format of the Written Pledge is shown in Attachment-1. Participants who do not participate in the program by committing against the contents of shown on the written pledge will not be considered as a successful participant who is eligible to complete the program.

4) **Nominee's English Score Sheet:** must be submitted with the Application Form. Any official documentation of English ability (e.g., TOEFL, TOEIC, IELTS) is recommended to be attached as well.

4. Procedures for Application and Selection

1) Submission of the Application Documents:

Closing date for applications: Please inquire at JICA Overseas Offices (or Embassies of Japan).

JICA office in your country (or the Embassy of Japan) will collect the application forms and send them to **JICA Yokohama in JAPAN** by: **October 17 (Fri), 2025, Japan Time.** As mentioned in 3.1) above, the application form should be typed in **English** in Microsoft Word format.

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 (JICA Yokohama) will consult with concerned organizations in Japan prior to final selection. Applications from organizations which are responsible for the promotion of the renewable energy and have specific issues to be addressed will be highly evaluated. The Government of Japan will examine applicants who belong to the military or other military-related organizations or who are enlisted in the military, taking into consideration their duties, positions in the organization and other relevant information in a comprehensive manner to ensure consistency with the Development Cooperation Charter of Japan

3) Notice of Acceptance

Notification of results shall be made by the respective country's JICA Overseas Office (or the Embassy of Japan) to the respective Government by no later than **October 22 (Wed), Japan Time.**

5. Additional Documents to be Submitted by Accepted Applicants

1) Photocopy of the accepted participant's passport: should be submitted **ONE MONTH BEFORE the arrival in Japan.**

*Photocopy should include the following:

Name in full, date of birth, nationality, sex, passport number and date of expiry.

2) Country Report – **must be submitted by November 3 (Mon), 2025, Japan Time.**

Accepted participants are requested to prepare and submit a Country Report, twelve (12) days before their arrival in Japan. Template of the Country Report is shown in Attachment 2.

Country Reports should be submitted to JICA Yokohama yictt1@jica.go.jp in Microsoft PowerPoint file **by November 3 (Mon), 2025,** preferably by e-mail. Kindly put the course number **202411687J001** at the beginning of your file's name.

3) Country Report Presentation

At the beginning of the program, each participant is requested to present his/her

Country Report. Presentations should adhere to the following guidelines.

- a) Presentation should be given using Microsoft **“PowerPoint”**.
- b) Each participant will be given approximately 20 minutes for the presentation.
- c) Visual materials including photos are recommended to be used as much as possible to make the presentation attractive and easy to understand.

6. Conditions for Participation

6-1. Conditions for participation in the program

Participants must:

- 1) strictly adhere to the program schedule,
- 2) not change the program topics,
- 3) not record or share the online/paper-based contents without permission of JICA and its implementing partners,
- 4) participate in the whole program including the preparatory phase. Applying organizations, after receiving notice of acceptance for their nominees, are expected to carry out the actions described in 1.4) and 1.5),
- 5) not change their air ticket (as well as flight class and flight schedule arranged by JICA) or lodging,
- 6) fully understand that leaving Japan during the course period (to return to home country, etc.) is not allowed,
- 7) not bring or invite any family members,
- 8) 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,
- 9) observe the rules and regulations of the program.
- 10) not engage in political activities, or any form of employment for profit,
- 11) not violate Japanese laws or JICA’s regulations or commit illegal acts or immoral conduct,
- 12) make efforts not to become critically ill or sustain a serious injury resulting in the participant being 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 “Administrative Arrangements”,
- 13) 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,
- 14) not drive a car or motorbike, even if the participant possesses an international driving license,
- 15) observe the rules and regulations at the place of the participants’ accommodation, and
- 16) refund allowances or other benefits paid by JICA in the case of a change in schedule.

[Conditions on deliverables by participants]

- 1) Participants must not put the JICA logo on Country Report, Action Plan or any other documents to be created for this training course.
- 2) Participants must accept that JICA does not necessarily represent any statements written in participants’ deliverables.

7. Presentation of Certificate

Participants who have successfully completed the program will receive a certificate of completion issued by JICA.

Administrative Arrangements

1. Organizer (JICA Center in Japan)

- 1) **Name:** JICA Yokohama Center (JICA YOKOHAMA)
- 2) **Address:** 2-3-1, Shinko, Naka-ku, Yokohama City, Kanagawa Prefecture, 231-0001, Japan

Tel: +81-45-663-3221 Fax: +81-45-663-3265

- 3) **Contact:** Mr. HORI Daisuke (yictt1@jica.go.jp)

Tel: +81-45-663-3221 Fax: +81-45-663-3265

2. Implementing Partner (under arrangement)

3. Accommodation in Japan

JICA will arrange and inform the participants of their accommodations in Japan.

4. Expenses

1. Travel to Japan:

- 1) **Air Ticket:** In principle, JICA will arrange an economy-class roundtrip ticket between an international airport designated by JICA and Japan.
- 2) **Travel Insurance:** Coverage is from arrival to departure in Japan. Therefore, traveling time outside Japan (including damaged baggage during the arrival flight to Japan) will not be covered.

2. Expenses in Japan:

The following expenses will be borne by JICA during the programs held in Japan:

- 1) Allowances for accommodation, meals, and living expenses.
- 2) Expenses for field visits (basically in the form of train tickets.)
- 3) Medical insurance coverage 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 “*KENSHU-IN GUIDE BOOK*,” which will be given to the selected participants before departure to Japan.

*Link to “*KENSHUIN GUIDEBOOK*” on JICA website (English):

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/acceptance/training/index.html

5. Pre-departure Orientation

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

Other Information

References:

1. Knowledge Co-Creation Program and Life in Japan	
English version	https://www.youtube.com/watch?v=SLurfKugrEw
2. Introduction of JICA Centers in Japan	
JICA Yokohama	https://www.jica.go.jp/yokohama/english/office/index.html

1) Laptop personal computer:

During the course, exercises will be conducted using graphs of Microsoft Excel and reports will be prepared using Microsoft PowerPoint. It is highly recommended to bring your own laptop personal computer and USB (universal serial bus).

2) Entry Visa to Japan will be arranged and issued in participants' respective countries. If it is difficult for participants to apply in their own countries, the visa will be applied for and issued in Japan.

3) Allowances will be deposited to your temporary bank account in Japan two business days after your arrival in Japan. It is advisable to bring some amount of money (cash) for the first few days after your arrival. Please note that it is important to have your bank notes/checks exchanged into Japanese Yen (JPY) in cash at an international airport. You may not have enough time to exchange money in Japan due to the busy training schedule.

4) Business cards are useful for introducing yourselves to other participants and to Japanese people.

5) Traditional clothing and business attire: Participants may wear business attire/traditional clothing in Japan on certain occasions (such as the closing ceremony). It is thus recommended to bring business attire or national /traditional dress for the closing ceremony and other events in Japan.

For All Applicants: to be submitted together with the Application Form

Written Pledge:

JICA Knowledge Co-Creation Program

**Promotion of Renewable Energy Introduction and Power Demand Supply
Optimization under Renewable Power Supply (A)**

To the Director of Training Program Division, JICA Yokohama

■ **Applicant**

Pledge:

I have read the General Information and will strictly adhere to the written description and concentrate on the program by organizing my daily obligations.

Date:	Signature:
	Print Name:
	NOTE: This name will be printed on the award certificate of the program

■ **Confirmation by the organization in charge**

Pledge:

I will relieve the participant of his/her daily obligations to ensure that he/she can fully attend the program.

Date:	Signature:
	Print Name:

Country Report

All the accepted participants are requested to prepare a Country Report in English providing the information on the following items and subjects.

As each participant will be requested to make a twenty-minute presentation on his/her Country Report during the comparative study session in Japan, the report should be prepared in MS PowerPoint.

Please submit your Country Report to JICA Yokohama office by **November 3 (Mon)**.

Attn: Mr. Hori Daisuke (yictt1@jica.go.jp)

Provide the course number **202411687J001** in front of your file name.

Contents to include in your Country Report

1. Front cover slide.

- (1) Title of the Country Report.
- (2) Country name, your name.
- (3) Your job title.

2. Second and following slides.

- (1) Introduction of your country.
 - Location of your country (using a world map).
 - Area, population, economic conditions.

3. Energy Situation and challenges in your country.

- (1) Policy frameworks for renewable energy implementation.
- (2) Outline of nationally determined commitment.
- (3) Electricity supply (outline of share of generation and future).
- (4) Enactment and enforcement situation of renewable energy-related law and/or regulation.
- (5) Issues and challenges for the promotion of renewable energy.

4. Your organization and main tasks.

- (1) Main tasks of the organization.
- (2) 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.
 - (The chart should be attached and not be counted in this page limit.) Please describe the duties of each department (section) briefly.
- (3) Brief description of your assignments on the promotion of renewable energy.
- (4) Challenges in you are currently facing.

5. Expected impact of the program on your challenges.

- (1) Your objectives of participating in this course.
- (2) Subjects of the course which took your interest the most.
- (3) How do you expect to apply skills and knowledge that you gained during the course to overcome the challenges in your country?

6. What type of renewable energy have you applied in your country? Please fill in the installed capacity and annual generated energy for each generation facility.

	Installed capacity (MW)	Annual generated energy (GWh)
Hydrogen energy		
Hydropower		
Wind-power generation		
Geothermal power generation		
Solar power		
Biomass power generation		

Notes:

(1) When formulating your Country Report, please include photos and visual information that illustrate your job description, challenges, and target areas.

(2) The Action Plan which the participants will formulate during the course in Japan should be directly related to the activities featured in their Country Reports.

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 it still remains 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.

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 the Embassy of Japan.
Further, address correspondence to:

JICA Yokohama Center (JICA YOKOHAMA)

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

TEL: 81-45-663-3221, FAX: 81-45-663-3265