



JICA



TICA



ENTEC

General Information

for

**Energy Resilience Assessment: Towards Climate Adaptable Energy
Systems**

February 19 – 23, 2024

Conducted by

The Government of Japan
Japan International Cooperation Agency (JICA)

The Government of Thailand
Thailand International Cooperation Agency (TICA)
National Science and Technology Development Agency (NSTDA)



Thailand International Cooperation Agency (TICA)

TICA's Vision

TICA aspires to be a central agency on technical and development cooperation under the Royal Thai Government to serve as a bridge for global sustainable development.

TICA's Mission

TICA is the main agency to execute international development cooperation with foreign governments, international organizations and intergovernmental organizations.

TICA is the focal agency in formulating strategic guidelines and policies on international development cooperation to be comprehensively in line with the Royal Thai Government's foreign policies.

Objectives

- To develop international cooperation plan, study and analysis on cooperation policy including implementation, follow-up and evaluation of technical cooperation projects.
- To administer development cooperation programmes provided to developing countries according to foreign policies of the Royal Thai government.
- To cooperate with various development partners including foreign governments and international organizations to develop technical cooperation projects for development under bilateral and multilateral frameworks.
- To administer fellowships and scholarships offered to developing countries for human resources development in public and private sectors as well as civil society.
- To coordinate international development cooperation.
- To disseminate information regarding development cooperation to government agencies concerned and international organizations.

Thailand International Cooperation Agency (TICA)

Ministry of Foreign Affairs
8th Floor, Government Complex Building B (South Zone)
Chaengwattana Road,
Laksi District, Bangkok 10210
Thailand

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Japan International Cooperation Agency (JICA)

ODA and JICA

Since 1954, Japan has been providing financial and technical assistance to developing countries through ODA (Official Development Assistance), aiming to contribute to the peace and development of the international community. JICA is in charge of administering all ODA such as technical cooperation, ODA loans and grant aid in an integrated manner. JICA assists and supports developing countries as the executing agency of Japanese ODA, and works in over 150 countries and regions and has some 100 overseas offices.

JICA's Vision

Leading the world with trust

JICA, with its partners, will take the lead in forging bonds of trust across the world, aspiring for a free, peaceful and prosperous world where people can hope for a better future and explore their diverse potentials.

JICA's Mission

JICA, in accordance with the Development Cooperation Charter, will work on human security and quality growth.

Actions

1. Commitment: Commit ourselves with pride and passion to achieving our mission and vision.
2. Gemba: Dive into the field ("gemba") and work together with the people.
3. Strategy: Think and act strategically with broad and long-term perspectives
4. Co-creation: Bring together diverse wisdom and resources.
5. Innovation: Innovate to bring about unprecedented impacts.

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National Energy Technology Center (ENTEC)

ENTEC

ENTEC is the fifth National Center under the National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research and Innovation (MHESI). ENTEC was established on June 9, 2020 by the Thai Cabinet as a focal point for local and international research and development cooperation. The mission of ENTEC is to carry out activities that support governmental policies including Sustainable Development Goal (SDG), National Energy Plan (NEP) and the national agenda, Bio-Circular-Green Economy Model. The recent focuses of ENTEC's research and development include five areas of energy technology research and development: renewable energy, energy storage system, conventional energy, system integration and energy management, and energy efficiency.

ENTEC's Vision

A leading organization & a focal point for Thailand's energy technology development

ENTEC's Mission

1. To conduct research, create and comprehend knowledge in supporting Thailand Integrated Energy Blueprint (TIEB)
2. To generate and transfer high-quality energy technology knowhow to relevant stakeholders towards palpable impacts
3. To work hand-in-hand with both public and private partners on research and development of energy technologies
4. To integrate major resources from various channels for prompt actions

National Energy Technology Center (ENTEC)

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The Third Country Training Programme (TCTP)
on
Energy Resilience Assessment: Towards Climate Adaptable Energy Systems
February 19 – 23, 2024

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The Third Country Training Programme on “Energy Resilience Assessment: Towards Climate Adaptable Energy Systems” is conducted by the Government of Thailand and the Government of Japan as part of their Technical Cooperation Scheme.

The course arrangements are referred to Record of Discussion signed on 9th November 2023 and jointly supported by Thailand International Cooperation Agency (TICA), Ministry of Foreign Affairs, and Japan International Cooperation Agency (JICA) in collaboration with National Energy Technology Center (ENTEC) under National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research and Innovation.

Background

Climate change has become a worldwide threat. The realization of its impacts led the global leaders towards Paris Agreement in the 21st United Nations Climate Change Conference (COP21) in 2016. Later in COP26, apart from Carbon Neutral target in 2050, the global leaders agreed upon enhancing the world’s adaptability against climate change to protect the nature and the communities, in which enhancing infrastructure resilience has been identified as one of the adaptive pathways. Though energy infrastructures, especially renewables, significantly contribute to greenhouse gas (GHG) emission reduction, they themselves are vulnerable to climate-related events with increasing severity of impacts. This impedes the progress of reducing GHG emissions, especially in low income countries, such as Cambodia, Laos, Myanmar, Vietnam (CLMV). The concept of energy resilience is among promising solutions that is believed to be capable of addressing the issue. APEC community has realized the significance of the energy resilience concept. It started discussing the ways towards energy resilient APEC community since 2015, and recently established APEC Energy Resiliency Principle in 2020 to show the eagerness.

Through APEC network, ENTEC initiated to pioneer energy resilience in 2019. In the 79th meeting of the ASEAN Committee on Science, Technology and Innovation (COSTI), ENTEC, with the great support from the Ministry of Higher Education, Science, Research and Innovation (MHESI), successfully made energy resilience a 2021 COSTI annual priority that help achieve Sustainable Development Goals (SDGs). To accelerate the movement against climate change, ASEAN Member States, especially CLMV countries, should receive an equal opportunity to contribute to the climate change goals. It would be mutually beneficial for Japan, one of the leading countries in the APEC Energy Resiliency Task Force (ERTF), and Thailand, the Energy Resilience Assessment initiator in ASEAN, to organize a joint training to disseminate knowledge and practices on the ways to enhance energy resilience to ASEAN Member States, especially CLMV countries. This cooperative effort will boost the hidden ability of the CLMV and other developing countries to contribute to the achievement of climate change goals.

Title

The Third Country Training Programme on Energy Resilience Assessment: Towards Climate Adaptable Energy Systems

Overall Goal

The project aims to enable the realization of energy resilience concept as means to enhance energy infrastructure adaptability against climate change, and promote actual implementation of energy resilience assessment in ASEAN Member States, with a focus on CLMV, in order to leverage the efforts towards the Sustainable Development Goals.

Anticipated Benefits:

1. To disseminate knowledge on energy resilience concept and provide hands-on training on energy resilience assessment to ASEAN countries and Timor Leste, with a focus on CLMV countries.
2. To facilitate pilot energy resilience assessments in ASEAN countries, in particular CLMV countries.
3. To facilitate the development of energy resilience assessment hubs of knowledge in interested ASEAN countries.

Duration

February 19 – 23, 2024 (1 week)

Invited Countries

Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam, and Timor Leste. Singapore and Brunei Darussalam will be self-funded for international travel expenses and related costs.

Number of participants

The total number of participants from the invited countries shall not exceed twenty-seven (27) in total, in particular, 25 participants from Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam (maximum 3 participants each from the above list) and 2 participants from Timor Leste.

Language

The courses will be conducted in English.

Institution

The course will be conducted by National Energy Technology Center (ENTEC), National Science and Technology Development Agency (NSTDA), with the support of Asian Development College for Community Economy and Technology (adiCET), Chiang Mai Rajabhat University (CMRU), Ministry of Higher Education, Science, Research and Innovation.

Venue

The course will be conducted at

1. Chiang Mai Rajabhat University (Main Campus)
202 Changpuak Rd, Tambon Chang Phueak, Amphoe Mueang Chiang Mai, Chang Wat Chiang Mai 50300 Thailand
Tel: 0 5388 5555
Fax:
URL: www.cmru.ac.th
2. Asian Development College for Community Economy and Technology (adiCET)
Address: 180 Moo 7 Chotana Road, Tambon Khilek, Mae Rim, Chiang Mai 50180 Thailand
Tel: 06 2310 4908
Fax:
URL: www.adicet.cmru.ac.th

Qualifications

The participants are requested to have the following qualifications.

1. Being nominated by their governments in accordance with the procedure stipulated in Application Procedure (1);
2. Having completed at least bachelor's degree or equivalent academic background in science, engineering or related field;
3. Being officials / officers with at least two (2) years working experience in energy field (researcher, faculty member, or policy related officer);
4. Being under 45 years of age;
5. Being proficient in spoken and written English; and able to contribute effectively to classroom discussion
6. Being in good health, both physically and mentally; each participant should have a health certificate provided by an authorized physician. The medical report form is also attached together with the Nomination form. Pregnancy is regarded as a disqualifying condition for participation in the Course; and
7. Not being serving in any form of the military services.

Application Procedure

1. The Applicant or the Government applying for the Course on behalf of applicant(s) shall forward the application form of each applicant not later than January 8, 2024, and the details are indicated in the following:
 - Three (3) hard copies to:
Royal Thai Embassy in their country
 - One soft/digital copy to:
Director, Human Resources Development Cooperation Division,
Thailand International Cooperation Agency,
Ministry of Foreign Affairs of Thailand
The Government Complex, Building B (South Zone), 8th Floor,

Chaengwattana Road, Laksi District,
Bangkok 10210, THAILAND
Tel +66-2203-5000 ext. 43302, Fax: +66-2143-8451
E-mail: tctp.tica@gmail.com, siwalee.w@mfa.go.th

- One soft/digital copy to:

Dr. Kampanart Silva

National Energy Technology Center (ENTEC), National Science and
Technology Development Agency (NSTDA)

111 Thailand Science Park, Phahonyothin Road, Khlong Nueng, Khlong
Luang, Pathum Thani, 12120, THAILAND

Tel +66-2564-6500, Fax. +66-2564 6501 ext. 5

E-mail: kampanart.sil @entec.or.th

Certificate

Participants who have successfully completed the course will be awarded a certificate by JICA, TICA, and ENTEC.

Allowance and Expenses

The following allowance and expenses will be borne by the the Government of Thailand and the Government of Japan

1. Economy class round trip air ticket for arrival and departure the International Airport in Bangkok designated by TICA will be issued to the approved candidate.

- The approved candidates are requested to send **a copy of their passport for the arrangement of the electronic air ticket.**

- **Electronic air tickets** will be sent to the applicants via email from TICA.

2. Living allowance at the rate of Baht 600 per day (equivalent to approximately US\$17) will be paid to the participant during stay in Thailand. This living allowance is for food, local transportation and other personal daily expenses. However, each participant is suggested to have his/her own pocket money sufficient for any emergency case available prior to the allowance payment.

Accommodation and Meals

The accommodation of the participants is allocated at the training venue. A shuttle van will be available for a daily round trip pickup service between participants' accommodation and adiCET and other locations if necessary. Participants can have their meals at restaurants around reserved accommodations by their own per-diem.

Contact persons

For more information, please contact

- Dr. Kampanart Silva

Address: National Energy Technology Center (ENTEC), National Science
and Technology Development Agency (NSTDA)

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Khlong Luang, Pathum Thani, 12120, Thailand
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- Director, Human Resources Development Cooperation Division,
Address: Thailand International Cooperation Agency,
Ministry of Foreign Affairs of Thailand
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THAILAND
Tel + 66-2203-5000 ext. 43302, Fax: +66-2143-8451
E-mail: tctp.tica@gmail.com, siwalee.w@mfa.go.th

Other necessary information:

1. Participants are required to arrive in Thailand on the date as designated by the TICA after its confirmation of acceptance. However, it will be finally confirmed by the air tickets sent to the participants. Participants are also requested to confirm the flight details and date of arrival in Chiang Mai to the TICA at least three days before the course commencement.

2. Participants are responsible for other expenses occurred during travel between the participants' home countries and Thailand, such as local transportation, passport fees, or airport tax.

3. Prior to arrival in Thailand, all participants should obtain the Non-Immigrant VISA (F) from the Royal Thai Embassy or Consular Representative in their countries or the countries nearby. The visa fee, with receipt of Thai embassy can be reimbursed not exceeding 3,000 Baht.

4. Participants should make their own arrangements for any private financial matters. This is not provided by the TICA and JICA.

5. Transportation from the airport to the reserved hotel will be provided. Upon arrival at Chiang Mai International Airport, after passing custom clearance and the inner exit gate, host country's staff will be standing by to receive participants. Kindly note the logistic fee will be charged on ENTEC directly.

6. Participants are required to attend according to the course schedule.

7. Participants are requested not to bring any of their families to the training course.

Life and Health Insurance

In accordance with relevant regulation, free minor medical treatment will be provided for participants who become ill during his / her stay in Thailand.

Course Outline

1. General Course:
 - 1.1 Country report presentations on national alternative and renewable energy policy and national climate change policy
 - 1.2 Climate change and energy infrastructure
 - 1.2.1 Climate change adaptation in energy sector
 - 1.2.2 Climate resilience and disaster resilience
 - 1.3 Related national and regional policy landscape
 - 1.3.1 Japan Green Transformation
 - 1.3.2 ASEAN Energy Outlook
 - 1.3.3 ASEAN State of Climate Change Report
 - 1.3.4 ASEAN Strategy for Carbon Neutrality
2. Specific Course:
 - 2.1 Energy resilience concept
 - 2.1.1 Energy resilience concept and its interpretation
 - 2.1.2 APEC Energy Resiliency Principle
 - 2.2 Energy resilience assessment
 - 2.2.1 ASEAN Energy Resilience Assessment Guideline
 - 2.2.2 Case studies of energy resilience assessment
 - 2.2.3 Energy resilience assessment hands-on training
 - 2.2.4 Energy resilience assessment tabletop exercise
 - 2.3 Discussion and presentations

Annex-1

Country Report for The Third Country Training Programme on Energy Resilience Assessment: Towards Climate Adaptable Energy Systems

The course provides an opportunity for participants to co-develop energy resilience solutions towards climate adaptable energy systems. Each participating country is, therefore, requested to prepare and present a country report in the form of a presentation on national alternative and renewable energy policy and national climate change policy. The presentation should be prepared using Microsoft PowerPoint, which may take about 10 minutes for each country. Exercises and group assignments will be given throughout the course, aiming at increasing the training and practical orientation, as well as bringing the different nationalities close together. The course covers **one week** with lectures, hands-on training, group working, and discussion. A site visit to 702 kW solar power plant on Chiang Mai Rajabhat University (CMRU) is planned to support the hands-on training.

Content of Country Report

1. Name of the participants
2. Introduction of the organizations the participants belong to.
3. Information
 - 4.1 Brief general information
 - a. Introduction to the participants' country (Location, Population, Map, Natural Resources, etc.)
 - b. Social and economic background
 - 4.2 Specific Information
 - a. National alternative and renewable energy policy
 - b. National climate change policy
 - c. Describe situation regarding alternative and renewable energy in participants' country
- d. Explain your idea on increased vulnerability of alternative and renewable energy systems due to climate change, and potential resilience enhancement measures

Country Lists and Focal Point Information

Country	Focal Point
Brunei Darussalam	<p>Dr. Rosnah binti Abdullah Chair, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Assistant Professor Faculty of Science University of Brunei Darussalam Tungku Link Road, BE1410 Brunei Darussalam Tel. +673 246 0923 ext. 1323 E-mail: rosnah.abdulah@ubd.edu.bn</p>
	<p>Mr. Mohammad Izwan bin Hj Tarip Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Head of Energy Transition Division Department of Energy, Prime Minister's Office Jalan Perdana Menteri, Bandar Seri Begawan BB3913 Brunei Darussalam Tel. +673 238 4488 E-mail: izwan.tarip@energy.gov.bn</p>
Cambodia	<p>H.E. Dr. Hul Seingheng Under Secretary Ministry of Industry, Science, Technology & Innovation #45, Preah Norodom Blvd., Sangkat Phsar Thmey III, Khan Daun Penh, Phnom Penh 12203 Cambodia Tel. +855 23 211 141 E-mail: hul.seingheng@misti.gov.kh</p>
	<p>H.E. Dr. Kuok Fidero Under Secretary Ministry of Industry, Science, Technology & Innovation #45, Preah Norodom Blvd., Sangkat Phsar Thmey III, Khan Daun Penh, Phnom Penh 12203 Cambodia Tel. +855 23 211 141 E-mail: kuok.fidero@misti.gov.kh</p>
	<p>H.E. Dr. Try Sophal Director General General Department of Science, Technology & Innovation Ministry of Industry, Science, Technology & Innovation #45, Preah Norodom Blvd., Sangkat Phsar Thmey III, Khan Daun Penh, Phnom Penh 12203 Cambodia Tel. +855 17 868 080 E-mail: try.sophal@misti.gov.kh</p>
	<p>Mr. Chan Visal Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Deputy Director Department of Science, Technology & Innovation Collaboration General Department of Science, Technology & Innovation</p>

Country	Focal Point
	Ministry of Industry, Science, Technology & Innovation #45, Preah Norodom Blvd., Sangkat Phsar Thmey III, Khan Daun Penh, Phnom Penh 12203 Cambodia Tel. +855 12 212 230 E-mail: chan.visal@misti.gov.kh
Indonesia	Dr. Deni Shidqi Khaerudini Research Center for Advanced Material National Research and Innovation Agency (BRIN) Gedung B.J. Habibie, Jl. M.H. Thamrin No. 8, Jakarta Pusat 10340 Indonesia Tel. + 62 857 1146 1440 Email: deni.shidqi@gmail.com
	Dr. Tata Sutardi Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Research Center for Energy Conversion and Conservation National Research and Innovation Agency (BRIN) Gedung B.J. Habibie, Jl. M.H. Thamrin No. 8, Jakarta Pusat 10340 Indonesia Email: tata012@brin.go.id
	Dr. Eng. Ir. Adhika Widyaparaga Faculty of Engineering Gadjah Mada University Gd. 440-442 Kawasan Puspiptek Serpong, Tangerang Selatan 15314 Banten, Indonesia Tel. + 62 274 520 669 Email: adhika@ugm.ac.id
	Dr. Eng. Muhammad Makky, Director of Innovation and Partnerships, Universitas Andalas Limau Manis, Pauh, Padang City, West Sumatra 25175, Indonesia Tel. +62 751 71 181 Email: muhmakky@ae.unand.ac.id
Lao PDR	Dr. Sounthisack Phommachanh Head of Material Division, National University of Laos Dongdok Village, Xaythany District, Vientiane, Lao PDR Tel. +856 21 770 381 Email: sack_naiy@hotmail.com
	Dr. Boualy Vongvisith Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Acting Head of Bio-energy Division, Renewable Energy and New Material Institute Thangon Road, km 14, Ban Danxang, Lao PDR Tel: +85 620 5455 9169, +85 620 5238 4534 Email: boualy2013@gmail.com
	Dr. Duangsavanh Phommavongsa Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER)

Country	Focal Point
	<p>Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Head of Administration Division, Faculty of Engineering, National University of Laos Thangon Road, km 14, Ban Danxang, Lao PDR Tel. +85 620 2288 8691, +85 620) 5528 8890 Email: deuansavanh12@gmail.com</p>
Malaysia	<p>Prof. Ir. Dr. Nofri Yenita Dahlan Director Solar Research Institute (SRI), Room 11/12, Level 9, Block 4, College of Engineering Universiti Teknologi MARA (UiTM), Shah Alam 40450 Shah Alam, Selangor, Malaysia Tel. +60 1 9667 7281 Email: nofriyenita012@uitm.edu.my</p> <p>Assoc. Prof. Dr. Norasikin Ahmad Ludin Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Deputy Director Solar Energy Research Institute (SERI) Level G, Research Complex, The National University of Malaysia, 43600 Bangi, Selangor, Malaysia Tel. +60 3 8911 8586 Email: sheekeen@ukm.edu.my</p>
Myanmar	<p>Dr. Zaw Min Naing Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Deputy Director General Renewable Technology Research Energy and Electronic Center Department of Research and Innovation Ministry of Science and Technology No. 6 KabaAye Pagoda Road P.O. Box 11081 Yankin, Yangon, Myanmar Tel. +95 1 665 292 Email: drzaw290615@gmail.com</p>
The Philippines	<p>Dr. Enrico C. Paringit Member, ASEAN Sub-committee on Sustainable Energy Research (SCSER) Executive Director Philippines Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD) Department of Science and Technology DOST Compound, General Santos Avenue, Bicutan, Taguig City, The Philippines Tel. +63 2 8837 0071 Email: enrico.paringit@pcieerd.dost.gov.ph</p>
	<p>Sci. Dpl. Glenn S. Banaguas</p>

Country	Focal Point
	<p>President, Environmental and Climate Change Research Institute De La Salle Araneta University (DLSAU) Salvador Araneta Campus, Victoneta Ave. Malabon City, The Philippines Tel. +63 91 7498 7210 Email: glenn.banaguas@gmail.com, glenn.banaguas@delasalle.ph</p> <p>Dr. Neil Stephen Lopez Mechanical Engineering Department, De La Salle University (DLSU) Gokongwei College of Engineering De La Salle University 8th Floor, Bro. Andrew Gonzalez Hall 2401 Taft Avenue, 1004 Manila, Philippines Tel. +63 2 524 4611 ext. 299 Email: neil.lopez@dlsu.edu.ph</p>
Singapore	<p>Prof. Madhavi Srinivasan Energy Research Institute (ERI) Nanyang Technological University (NTU) 1 Cleantech Loop, Singapore 637141 Tel. +65 6592 2466 Email: madhavi@ntu.edu.sg, d-erian@ntu.edu.sg</p>
Timor Leste	TBC
Thailand	<p>Prof. Vilas Nitivattananon Department of Development and Sustainability School of Environment, Resources and Development Asian Institute of Technology P.O. Box 4, 58 Moo 9, Km. 42, Phahol Yothin Road, Klong Luang, Pathum Thani 12120 Thailand Tel. +66 2 524 5601 Email: vilasn@ait.asia</p> <p>Assoc. Prof. Dr. Wijitbusaba Marome Head of Urban Futures and Policy Research Unit Faculty of Architecture and Planning Thammasat University (Rangsit Campus) Pathum Thani 12121 Thailand Tel. +66 2 986 9434, +66 2 986 9605-6 ext. 4007 Email: wijitbusaba@ap.tu.ac.th</p> <p>Dr. Nutchapon Chiarasumran Chemical Engineering, Faculty of Engineering, Kasetsart University 50 Ngamwongwan Road Ladyao, Chatuchak, Bangkok 10900 Thailand Tel. +66 2 797 0999 ext. 1269 Email: nutchapon.ch@ku.ac.th, np_cr@hotmail.com</p> <p>Assoc. Prof. Wongkot Wongsapai Energy Technology for Environment Research Center Faculty of Engineering, Chiang Mai University 239 Huay Kaew Road, Su Thep, Muang, Chiang Mai 50200 Thailand Tel. +66 53 944 904 Email: wongkot@eng.cmu.ac.th</p>

Country	Focal Point
Vietnam	Dr. Nguyen Hoang Nam Policy Advisor, National Economics University Vietnam 207 Giải Phóng, Đồng Tâm, Hai Bà Trưng, Hà Nội, Vietnam Tel. +84 9 3229 0108 Email: nguyenhoangnam275@gmail.com
	Dr. Vo Tan Chau Faculty of Automotive Engineering Technology Industrial University of Ho Chi Minh City Go Vap District, Ho Chi Minh City 727900 Vietnam Tel. +84 9 3863 4705 Email: votanchau@iuh.edu.vn
	Dr. Huynh Thanh Cong Ho Chi Minh City University of Technology 268 Lý Thường Kiệt, Phường 14, Quận 10, Thành phố Hồ Chí Minh, Vietnam Email: htcong@hcmut.edu.vn
	Mr. Tran Nam Tu Department of Science, Technology and Environment Ministry of Education and Training #35 Dai Co Viet hai Ba Trưng, Ha Noi, Viet Nam Tel. +84 3 869 2393 Email: tntu@moet.gov.vn

Tentative Schedule

Date/Month/Year	Morning (9.00 – 12.00)	Afternoon (13.00 – 16.30)	Evening
February 18, 2024	Participants' arrival		
February 19, 2024	<ul style="list-style-type: none"> • Welcome remarks and opening ceremony • Self-introduction • Introduction of energy resilience assessment training • Country report <ul style="list-style-type: none"> - Brunei Darussalam - Cambodia - Indonesia - Lao PDR - Malaysia - Myanmar - Philippines - Singapore - Timor Leste - Thailand - Vietnam 	<ul style="list-style-type: none"> • Energy resilience concept and its interpretation • APEC Energy Resiliency Principle • Climate change adaptation in energy sector • Climate resilience and disaster resilience 	Welcome Dinner
February 20, 2024	<ul style="list-style-type: none"> • Japan Green Transformation • ASEAN Energy Outlook • ASEAN State of Climate Change Report • ASEAN Strategy for Carbon Neutrality • ASEAN Energy Resilience Assessment Guideline 	<ul style="list-style-type: none"> • Energy resilience assessments in Malaysia • Energy resilience assessments in Japan • Energy resilience assessments in Thailand • Recap of energy resilience assessment case studies 	Free
February 21, 2024	<ul style="list-style-type: none"> • Site visit: CMRU's 702 kW solar power plant 	<ul style="list-style-type: none"> • Energy resilience assessment (hands-on training with the case study of CMRU's 702 kW solar power plant) 	Free
February 22, 2024	<ul style="list-style-type: none"> • Introduction to Pha Dan community solar facility • Energy resilience assessment tabletop exercise with Pha Dan community solar facility 	<ul style="list-style-type: none"> • Energy resilience assessment tabletop exercise with Pha Dan community solar facility • Presentation of the preliminary results from tabletop exercise 	Free

Date/Month/Year	Morning (9.00 – 12.00)	Afternoon (13.00 – 16.30)	Evening
February 23, 2024	<ul style="list-style-type: none"> • Consideration of potential energy resilience assessment of power plants in trainees' country • Post-workshop action plan <ul style="list-style-type: none"> - Brunei Darussalam - Cambodia - Indonesia - Lao PDR - Malaysia - Myanmar - Philippines - Singapore - Timor Leste - Thailand - Vietnam 	<ul style="list-style-type: none"> • Wrap-up • Certificate presentation ceremony • Cultural visit 	Free
February 24, 2024	Participants' Departure		