

Thailand's Annual International Training Course (AITC) 2017

“Green Energy for Low Carbon Society”

I Course Title: Green Energy for Low Carbon Society

II Duration: May 15-29, 2017 (14 Days)

III Closing date for application: 27 March 2017

IV Background and Rational

Demand for energy and energy consumption has increased significantly due to an increasing need for energy every year. As a result, Green House Gas (GHG) as well as other gas emissions to the atmosphere are also increasing. Green energy such as renewable energy has been studied for many years and some of them can be used to replace conventional energy. However, in practice, not so many success stories have been reported especially in developing countries. The problems concerned are mainly lacks of knowledge and understanding of people in the community about green energy technology. In addition, very few prototypes of green energy technology that fit the community scale can be used in reality, while poor management of the renewable energy resources makes it difficult to replace conventional energy.

Training course on Green Energy for Low Carbon Society attempts to address and alleviate the above problems. Participants will gain experiences on the practice of renewable energy technologies and learn how to select and implement the appropriate methods which could be utilized in their own communities in order to achieve green communities as well as low carbon societies.

Faculty of Engineering, Chiang Mai University has a lot of experiences on renewable energy technologies. Many of the innovative research studies, publications and pilot projects have been launched out, for example, solar energy for heating, cooling and power generation; biodiesel generation under electric field, bio-oil refinery with catalytic cracking, emulsified oil; pyrolised biochar from biomass, etc.

V Course Objectives

- To exchange and share technologies on renewable energy among participants.
- To share experiences on renewable energy to generate green energy concept for community or low carbon society.
- To initiate a collaboration network across countries on green energy for community or low carbon society.

VI Course Contents

The training includes lectures (theory and practice) and field trips.

The lecture part will cover solar energy such as solar thermal and solar photovoltaic applications; biomass energy such as biodiesel and bio-oil refinery, bio-oil and bio-char under pyrolysis.

For the field trip, the participants will visit communities where solar energy, biomass and biogas are used.

All participants are required to prepare a Country Report on “Potential of Renewable Energy Utilization for Low Carbon Society in Your Country” (Maximum 5 pages) (Country Report Template to be circulated)

VII Number of Participants: 20 persons

VIII Qualifications

Candidates must possess qualifications as specified in “Guideline for Thailand’s Annual International Training Course Programme” No. 2 “Qualifications” as well as following qualifications.

- Currently work on at least one of the area of renewable energy such as solar energy, biogas or biofuels, etc.
- No over 45 years of age.

IX Venue

Faculty of Engineering, Chiang Mai University,
Chiang Mai, Thailand

X Evaluation

Participants are required to attend all activities organized during the course as attendance in all sessions is obligatory. TICA reserves the rights to revoke its fellowship offer or take appropriate action deemed appropriate in case a participant is in attendance of less than 90 percent of the training hours.

Moreover, participants must pass the final writing examination.

XI Training Institution:

Faculty of Engineering, Chiang Mai University,
Chiang Mai, Thailand

XII Contact

For more information, please contact;

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