

## Thailand's Annual International Training Course (AITC) 2017

### “Global Warming Mitigation and Adaptation by Balancing Sustainable Energy Management (GSEM)”

I. **Course Title:** Global Warming Mitigation and Adaptation by Sustainable Energy Management

II. **Duration:** 16 August – 1 September 2017

III. **Closing Date for Applications:** 2 June 2017

#### IV. **Background and Rational**

Global Warming refers to the rise of the mean temperature of the Earth's atmosphere and oceans which has become obvious since the late 19<sup>th</sup> century. The average surface temperature has increased since the early 20<sup>th</sup> century primarily as a result of the increasing of the greenhouse gases from fossil fuel. Without strong commitment, it is difficult to stabilize the emission of greenhouse gas.

More attention has been paid to energy issues when various studies on global warming lead to the conclusion that energy consumption is one the major causes for global warming. Referring to the Act of Energy Conservation and Promotion B.E. 2535 (1992) together with the Energy Conservation and Promotion Fund, Thailand has shown its consciousness and awareness in energy through various programs conducted by the Ministry of Energy. The academic sector, especially many universities working on energy issues in Thailand, is focusing on Global Warming mitigation by using of technology on energy conservation and renewable energy. Thailand is facing the problem of energy consumption growth whereas the increasing need of power supply requires constructing the new power plant which sometimes cause problem with local community. This reflects the unbalance of the three pillars of sustainability.

This two-weeks training course focuses on building the concept of balancing among three pillars of sustainability, namely environment, society and economy. The course will be conducted by the Faculty of Environmental Management, Prince of Songkla University, which also offered Master and Doctoral Program on Sustainable Energy Management.

## V. Objectives:

- Participants will be able to mitigate and adapt the global warming via the sustainable energy management concept.
- Participants will have an opportunity to exchange ideas on global warming mitigation and adaptation, as well as to build networks among colleagues for future collaboration.

## VI. Course Content:

Training topics include;

- Global Warming Related Energy and Future
- NAMA and Sustainable Development Goal
- Sustainable Development
- Sustainability Measurement
- Solar PV in Thailand
- SPCG Solar farm monitoring station
- Solar Thermal
- Waste from Energy
- EE in Thailand
- RE in Thailand
- Biomass Energy
- Life Cycle Cost Analysis
- Green House Gas
- Waste to Energy
- Biomass Gasification
- Waste Management
- Cow and Chicken Manure Biogas
- Merit of Order for Power Plant Management
- Public Participation and Protest
- Carbon and Water Footprint
- Air Pollution from Energy Business
- Biological Impact from Power Plant
- EIA for power plant
- Statistical Impact from Power Plant
- IGES and Biogas
- Solar Drying
- Biogas
- Low speed wind turbine
- Adaptation

- Case Study of Rice and Climate Change

**Field Trip and Excursion** - The programme include visits to relevant sites such as Waste Incinerator Power Plant and Jana Natural Gas Power Plant, EGAT.

#### **Advance Assignment**

Participants are required to prepare a Country Report introducing relevant situation in their respective countries/territories and prepare for a 15-20 minutes in-class presentation as assigned.

#### **Reading Assignment**

Participants are required to complete a reading about Global Warming, Kyoto Protocol, Energy Conservation, Renewable Energy, Sustainable Energy Management, and Sustainability Measurement.

#### **Project Assignment**

Participants will be assigned a project to be presented and discussed at the end of the training.

#### **Culture Assignment**

On the last day, participants are recommended to prepare souvenir to be exchanged.

#### **Evaluation**

Participants are required to pass the post test and attend more than 90% of total training period.

**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.” Moreover, candidates with the following qualifications are preferred.

- Graduated with a degree related to environment, energy, or science.
- Have at least 2 years working experience.
- Currently working in the fields related to global warming and sustainable energy management.
- Be able to bring and use their own lap top computer for the whole training period as all documents will be circulated in form of soft files.

**IX. Venue and Training Institution:**

Faculty of Environmental Management,  
Prince of Songkla University,  
Hadyai, Songkla, 90110 Thailand

**X. Contact**

For more information, please contact;  
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