

# Global Warming Mitigation and Adaption by Balancing Sustainable Energy Management (GSEM)

<b>Programme</b>	Annual International Training Courses Thai International Cooperation Programme
<b>Course Title</b>	Global Warming Mitigation and Adaption by Balancing Sustainable Energy Management (GSEM)
<b>Duration</b>	June 1 - 17, 2016
<b>Closing Date for Application</b>	March 15, 2016
<b>Number of Participants</b>	18-20
<b>Eligible Countries</b>	<b>Asia:</b> Afghanistan, Bangladesh, Georgia, Indonesia, Iran, Jordan, Kyrgyzstan, Malaysia, Maldives, Nepal, Oman, Pakistan, Palestine, Philippines, Sri Lanka, Tajikistan, Timor-Leste, Uzbekistan, Yemen, and Thailand <b>Africa:</b> Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Congo, Djibouti, Egypt, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Lesotho, Libya, Malawi, Mali, Mauritania, Mauritius, Morocco, Namibia, Rwanda, South Sudan, Sudan, Swaziland, Togo, Tunisia, Zambia, Zimbabwe <b>Pacific:</b> Cook Island, Fiji, Marshalls Island, Nauru, Palau, Papua New Guinea, Vanuatu, Solomon Island, Tonga, Tuvalu <b>Member Countries;</b> FEALAC, OAS and CARICOM

## Objectives

### The course aim to:

- To build the capacity for participants in mitigate and adapt the global warming via the sustainable energy management concept.
- To produce the balancing sustainability towards global warming mitigation and adaptation
- To exchange the international idea of global warming mitigation and adaptation together with the network building among all participants.

## Qualifications

### Applicant for this course should:

- At least bachelor degree in relation to environment, energy, and science.
- At least 2 year working experience
- Related closely to global warming and sustainable energy management
- Be able to bring own lap top computer for the whole training as there would be no hard copy distribution but file distribution

## Course Contents

### Week 1

- Introduction, and Documentation/ Pretest and Orientation
- Introduction to Global Warming Related Energy and Future by TGO
- Thai Green House Gas Organization
- Sustainable Development/ Sustainability Measurement
- Carbon Footprint and Water Footprint
- Introduction to Faculty of Environmental Management and PSU
- Introduction to Energy System Research Institute
- Sustainable Energy Management in Songkhla Lake Basin
- Country Paper and Discussion

### Week 2

- Economic Value
- Stated Preference/ Revealed Preference
- Sankamprang solar power plant/ Mae Kampong Micro hydro power plant
- Wrap up Chiangmai Site Visit
- Climate change, GHG emission from energy, industry and waste treatment
- Electricity generation from waste, waste management, renewable energy

- Environmental Aspects of RE compared to CE and RE Limitation
- Introduction to Waste Incinerator Power Plant/ Touring around Waste Incinerator Power Plant
- Wind Turbine
- Country Paper and Discussion

#### Week 3

- Sustainable Energy Management in City
- Management Concept for Project Implementation (ISO)
- Geography and Global Warming
- Natural Gas and Jana Power Plant/ Touring around the Power Plant and Discussion
- Visit to TTM Plc.
- Global Warming Mitigation and Adaptation, Case Study of Spanish Mosses
- Case Study of Rice and Climate Change/Case Study from other Climate Change
- Multi-criteria Decision Making
- Analytical Hierarchy Process/ Case Study of MCDM
- Country Paper and Discussion
- Wrap up/Network Building/Evaluation/Closing Ceremony

The purpose of site visiting is to show the development and the real balance in environmental, social, and economical aspect together with the concern of global warming.

#### **Advance Assignment**

Prepare Country Report to present by each participant every day. The format should follow the topic as follows; Introduction, Name of Training Course, Name of Applicant, Home Address, Organization Address, Position/Role/Responsibility/Tasks in Organization, Country Information - Geography, climate, population, language, social, education, and economics, Situation of environment, law, and regulation related to the training topic, Problem related to the training course

#### **Reading Assignment**

Please read about Global Warming, Kyoto Protocol, Energy Conservation, Renewable Energy, Sustainable Energy Management, and Sustainability Measurement

#### **Project Assignment**

The solving scheme will be assigned to the participants to designed and it will be presented and discussed at the end

#### **Culture Assignment**

At the end of the day, participant should prepare a performance to show for cultural exchange

### **Institution**

#### **The course will be conducted by:**

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