

Multi-stakeholders partnership for Environmental Capacity Development



Perspectives from the Asian Institute of Technology



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June 26-27, 2009



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Climate change and Low carbon society



Education and Training:

- **Courses Available**
 - Energy, Environment and Climate Change: Issues and Strategies
 - Energy-Economic Modeling and Policy Analysis
 - Environmental Economics
 - Energy audit and Conservation
 - Energy Resources and Technologies
 - Environmental Policy and Management of Energy Systems
 - Solar Energy
 - Solar Thermal design and applications
 - Biomass conversion
 - Air pollution and climate interaction
- **Training**
 - Capacity Building in CDM
 - Energy and Sustainable Development



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Research and Outreach:

Greenhouse gas mitigation options:

- One main focus of climate change research at AIT so far is on greenhouse gas mitigation options (both technological and policy) and their implications for the energy resource mix, technology-mix, environmental co-benefits in terms of reduction of other pollutant emissions.
- Country-specific long term national energy system models have been developed in the case of Thailand, Vietnam and Indonesia to assess these countries' energy related greenhouse gas emissions and the effects of energy and climate related policy options. Similar modeling activities in the case of Cambodia, Laos and Myanmar are ongoing.



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Research and Outreach:

Climate Policy modeling:

- Country specific bottom-up energy system and environmental models have been developed for Indonesia, Thailand and Vietnam. In addition, computable general equilibrium (CGE) models of Thailand have been developed to assess the effects of climate change policies on economic output, employment and environment.

Clean Development Mechanism:

- Several research activities have also been carried out in the area of clean development mechanism (CDM) of the Kyoto Protocol dealing with the general conceptual/methodological issues of CDM and also focused on country specific application issues.
- More information on CDM research and educational activities at AIT are available at: <http://www.serd.ait.ac.th/cdm/>



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Partners

Bangladesh: Bangladesh University of Engineering and Technology (BUET)

China: Energy Research Institute, Tsinghua University, Tongji University

Denmark: UNEP Risoe Center (URC) on Energy, Climate Change and Sustainable Development

India: Indian Institute of Technology, Kanpur, Indian Institute of Management, Ahmedabad, Central Electricity Authority

Japan: Mizhuo Information and Research Institute, Asia Pacific Network on Global Change Research (APN), Institute for Global Environmental Strategies (IGES), National Institute of Environmental Studies (NIES), University of Tokyo

Sweden: Swedish International Development Cooperation Agency (Sida)



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Partners

Sri Lanka: University of Peradeniya; Sri Lanka Energy Managers' Association (SLEMA)

Thailand: Sirindhorn International Institute of Technology (SIIT)

US: University of Illinois at Urbana Champaign, Clarkson University

Vietnam: Institute of Energy (IE), Hanoi University of Science

International Organizations: UNEP, ESCAP, ADB, UNU, World Bank Institute



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Future plans

- Degree program related to the above topic – various time frames
- Training programs – various target audiences
- Research on technology and policy issues



Suggestions on possible collaboration



Education and Training

- Joint degree programs on Energy and Climate Change, etc

Research

- Joint research on climate change, sustainable development issues (cities, sector wise, etc)

Outreach

- Organisation of workshops, seminars, conferences
- Policy dialogues





Thank you for your attention

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