

Background of the Seminar

Presently, there is insufficient effort and insufficient body of studies into the issues of low-energy and low-carbon housing for low-and-medium income earners. Even fewer studies have touched on the issue of natural ventilation, thermal comfort and indoor environmental quality. Modern housing design does not adequately attempt to utilize daylight fully, or to provide energy-efficient electric lighting during night time, or to address the performance of building envelope in air-conditioned residential space.

A research project called '*Energy and Low-income Tropical housing*' was perceived to address the problems mentioned. The project is jointly funded by the United Kingdom Research Council, the Department for International Development (DFID) and the Department for Energy and Climate Change (DECC) in a Programme called Energy and International Development. The overall objective of the project is to develop method to enhance energy and carbon performance of low and medium income housing and to promote it through the use of energy and carbon performance labeling, training, and other means of information dissemination.

A consortium of six parties that include the University of Warwick, the University of Cambridge, KMUTT, National Housing and Building Research Agency of Tanzania, University of Nottingham Ningbo China and Uganda Martyrs University are formed to undertake the project. For Thailand, the National Housing Authority and the Electricity Generating Authority are project partners and potential beneficiaries, as both organizations would develop the methodology further for implementation.

This seminar is held as an activity to disseminate outputs from this project.

Energy and Low Income Tropical Housing

March 24, 2016

Eastin Grand Hotel Sathorn,Thailand

Opening

08:30-09:15

Registration

09:15-09:45

Opening Ceremony

- Dr. Terence Thomas reports on the background of the Energy and Low-income Tropical Housing project

- UK Embassy representative (Information on the UK support for the E&ID Programme)

- JGSEE Director (Welcome participants)

- Representative of KMUTT President (Welcome and opening)

Morning Session

09:45-10:15

Housing policy of Thailand and ASEAN (Representative of the National Housing Authority)

10:15-10:45

Break

10:45-11:15

Appliance Energy Labeling in Thailand (Representative of the Demand Side Management Office of the Electricity Generation Authority of Thailand)

11:15-11:40

An Energy and Carbon Rating Scheme for Residential Dwellings (Prof. Dr. Surapong Chirarattananon)

11:40-12:00

Potential reduction in electricity consumption and carbon emission by the residential sector in Thailand (Asst. Prof. Dr. Pattana Rakkwamsuk)

12:00-13:00

Lunch break

Two Parallel Afternoon Sessions

Session I: Sustainable Human Dwellings: Community and Urban Issues

13.00-13.30

Key Issues of Low-income Housing and State of the Art Solution (Dr. Chris Butters)

13.30-14.00

Income, Livelihood and Energy Consumption in Thai Context (Dr. Pipat Chaiwiwatworakul)

14.00-14.30

Urban Housing Solutions: Density, Microclimate and Energy (Dr. Ali Cheshmehzangi)

14:30-15:00

Break

15:00-15:30

Dwellings and Embedded Carbon (Dr. Siriluk Chiarakorn)

15:30-16:00

Daylighting and Thermal Comfort in Buildings (Dr. Pipat Chaiwiwatworakul)

Session II: Low Energy and Carbon Dwellings

13.00-13.30

Concept of Energy for Low-income Tropical Housing (Dr. Terence Thomas)

13.30-14.00

Surveys of Housing Features and Environmental Quality of Medium and Low Income Earners in Thailand (Mr. Preecha Tummu)

14.00-14.30

Sustainable Architecture (Dr. Atch Sreshthaputra)

14.30-15.00

Break

15.00-15.30

Design for Natural Air Flow and Daylight in Dwellings (Prof. Dr. Surapong Chirarattananon)

15.30-16.00

OTTV and Energy Rating of Dwellings (Mr. Preecha Tummu)

Common Afternoon Session

16.00-16.45

Round Table Discussion

16.45-16.50

Closing

Past Activities



Organized by:
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Seminar Venue:
 Eastin Grand Hotel Sathorn,
 Bangkok, Thailand
 Address: 33/1 South Sathorn Road, Yannawa,
 Sathorn, Bangkok, 10120 Thailand
 Tel: +662 210 8100
 The hotel is next to the Surasak Station of the BTS.

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