Background of the Workshop

The Thai research partner in the project 'Energy and Low-income Tropical housing (ELITH)' has successfully conducted a seminar on 24th March 2016 in Bangkok to disseminate results from the project to personnel from the National Housing Authority (NHA), personnel from the Electricity Generating Authority of Thailand (EGAT), academic faculty members from Architecture and Engineering, and personnel from international organizations and government agencies. Essentially, the Thai researchers informed the audience that the output of the project is scheme for rating energy and carbon performance of residential units (that include detached houses and residential condominium units).

As it turned out, the Demand-side Management Office of EGAT took interest in the scheme and has proposed to NHA to initiate a pilot project to apply the scheme to residential units planned or constructed by NHA. Since EGAT has been carrying out an energy labeling program on electrical appliances, the pilot project is practical extension to its program. If successful, EGAT will extend the program to the general public.

In order to assist EGAT and NHA on this endeavor, and in order to further disseminate results from the project, the Thai research team plan to conduct a workshop on the rating scheme. The workshop includes lectures and computer sessions that participants would have the opportunity to run a computer program developed to assist in the examination and rating a residential unit. The schedule of the workshop appears in the following page.

Participants are expected to bring their own lap top computer and download a trial version of **MATLAB** program.

An Energy and Carbon Rating Scheme for Residential Dwellings 28th July, 2016

King Mongkut's University of Technology Thonburi, Bangkhuntien Campus

Opening

08.30-09.00	Registration
09.00-09.05	Welcome by the Thai Project
	Principal

Morning Session

09.10-09.45	Framework of the Energy and
	Carbon Rating Scheme for
	Residential Dwellings (Prof. Dr.
	Surapong Chirarattananon)
09.45-10.15	Potential reduction in electricity
	consumption and carbon
	emission by the residential sector
	in Thailand (Asst. Prof. Dr.
	Pattana Rakkwamsuk)
10.15-10.30	Break
10.30-11.00	A description of the
4	requirements on air flow and
	daylight illuminance, and the
	energy and carbon performance
III .	rating methodology
11.00-11.30	Demonstration on the use of a
	computer program for design of
-	windows to comply with
	requirements on air flow and
	daylight illuminance
	(Mr. Preecha Tummu and Prof.
	Dr. Surapong Chirarattananon)
	The second

11.30-12.00	Demonstration on the use of the
	computer program for design of
	walls and roof to improve energy
	and carbon performance

12.00-13.00 Lunch break

Afternoon Session

	13.00-13:45	Participants are guided to
	43	practice using the computer
		program for design of windows
	The same	to comply with the requirements
	187	on airflow and daylight
	191	illuminance
	111	(Mr. Preecha Tummu, Ms.
		Kasawan Ruangtinakorn and
		Mr. Pichet Lertboonkankit)
	13.45-14.30	Participants practice further on
		the design of walls and roofs
		(Mr. Preecha Tummu, Ms.
	1 1 2 1	Kasawan Ruangtinakorn and
	1 / 61/	Mr. Pichet Lertboonkankit)
ŀ	14.30-14.45	Break
į	14.45-15.45	Guided tour of the daylight and
Ī		solar measurement station, the
	24.8	experimental houses and the
		campus
	15.45	Closing

Past Activities





















Organized by:

King Mongkut's University of Technology Thonburi 126 Prachauthit Rd, Bangmod, Tungkru, Bangkok, Thailand 10140 Contact E-mail: elith.thailand@gmail.com

Workshop Venue:
Sattabongkot Room 1st Floor
Research Development and Pilot Plant Building
King Mongkut's University of Technology
Thonburi (Bangkhuntien Campus)
83 Moo 8 Tientalay 25, Thakham, Bangkuntien,
Bangkok 10150, Thailand



Workshop

An Energy and Carbon Rating
Scheme for Residential Dwellings
28th July, 2016
King Mongkut's University of
Technology Thonburi,
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