

Megacity Research Project TP Ho Chi Minh Integrative Urban and Environmental Planning Framework Adaptation to Climate Change

Roundtable at the Department of Construction (DoC)

“Climate Change & the Promotion of Energy Efficient Housing in Ho Chi Minh City”



Roundtable

March 23, 2010

Ho Chi Minh City, Vietnam

Outcome

Roundtable at the Department of Construction (DoC)

“Climate Change & the Promotion of Energy Efficient Housing in Ho Chi Minh City”

Scientific Coordination: Dr. Michael Waibel & Nguyen Tung Lam

**Tuesday March 23, 2010, 08.30am – 12.30am,
First floor Meeting Hall
60 Truong Dinh Street, District 3
Ho Chi Minh City, Vietnam**

Outline	3
Programme	3
Outcome	4

Outline

The Planning Roundtable was jointly organised by the Department of Construction (DoC) and the HCMC Megacity Research Project. The focus of this roundtable was to exchange research results on climate change adaptation and mitigation strategies from the Megacity Research Project TP. Ho Chi Minh and the Department of Construction (DoC) and to intensify the future cooperation.

The roundtable was attended by about 30 participants and included representatives of the Department of Construction (DoC), the Department of Urban Planning and Architecture, the Department of Natural Resources and Environment, the Department of Science and Technology and the Energy Conservation Center (ECC) belonging to the Ministry of Industry and Trade (MoIT).

The discussion focused on the promotion of energy efficient housing in Ho Chi Minh City and adaptation strategies for urban design and urban planning.



Programme and Participants

Introduction by Mr. Quach Hong Tuyen (Deputy Director of the Department of Construction)

“Proposed activities of the DoC regarding Climate Change Adaptation” (Mr. Nguyen Tung Lam, Vice Chief of General Urban Planning Division)

“An Integrative Urban and Environmental Planning Framework for Adaptation to Global Climate Change - The Megacity Research Project TP. Ho Chi Minh” (Prof. Frank Schwartze)

“Promoting Energy Efficient Housing in Vietnam: Institutional and Socio-Economic Challenges towards Implementation” (Dr. Michael Waibel)

“Re-design of the Shophouse typology: Space - Construction – Material” (Christoph Hesse)

“Climate and Market Appropriate Solutions for low-CO₂, Development of HCMC’s Residential Building Stock” (Dr. Dirk Schwede)

“Modelling of Spatial Patterns of Energy Consumption in Housing Sector in Ho Chi Minh City” (Dr. rer. nat. habil. Nguyen Xuan Thinh)

“Climate adapted urban planning and design guidelines at the neighbourhood level” (Ronald Eckert)

- Mr. Quach Hong Tuyen (Vice-Director of the Department of Construction)
- Mr. Tran Quoc Tuan (Chief of Building License Division)
- Vu Ngoc Dung (Chief of Urban Development Division)
- Mr. Nguyen Tung Lam, (Vice-Chief of Urban Planning Division)
- Mr. Luong Tung Lam (Vice Chief of General Planning Division)
- Mr. Nguyen Bac Son (Vice Chief of Building Material Division)
- Mr. Ly Khanh Tam Thao (Department of Urban Planning and Architecture)

- Mrs. Vo Thuy Linh (Department of Natural resources and Environment)
- Mr. Vu (Department of Science and Technology)
- Mr. Phong, Energy Conservation Center (ECC - HCMC)

HCMC Megacity Research Project

- Prof. Frank Schwartz (Vice-Director of Megacity Project HCMC, Brandenburg, University of Technology BTU Cottbus)
- Dr. Michael Waibel (University of Hamburg)
- Dr. Dirk Schwede (energydesign-asia Ingenieuresellschaft mbH)
- Christoph Hesse (University of Technology Darmstadt)
- Dr. habil. Nguyen Xuan Thinh (IÖR Dresden)
- Ronald Eckert (University of Technology, Cottbus)
- Tran Thi Thu Hang (University of Architecture HCMC)
- Bernadett Hoppe (University of Technology, Cottbus)
- Katrin Scharte (IÖR Dresden)
- Anne Bräuer (IÖR Dresden)
- Ulrike Schinkel (University of Technology, Cottbus)
- Andreas Gravert (University of Technology, Cottbus)
- Ralf Kersten (University of Technology, Cottbus)

Further Guests

Outcome

General

- Great mutual interest in increased cooperation
- Exchange of research results on climate change adaptation and mitigation strategies between the Megacity Research Project TP, Ho Chi Minh and the Department of Construction (DoC)
- Awareness risen about the huge potential for saving greenhouse gas emissions in the field of construction and housing
- The DoC asks for active support from the Megacity Research Project TP. in the field

- of the implementation of climate change adaptation and mitigation strategies
- Bi-lateral agreement that energy-efficient housing has to be promoted

Presentations

- Lack of awareness concerning climate change and energy-efficient construction, especially among growing middle-class population as main drivers of suburbanization processes and of building activities.
- Presentation of (re)design solutions for energy, ventilation, water, fresh air, waste, urban agriculture, height, function and space composition of the shophouse typology
- Presentation of energy efficient housing strategies: orientation and zoned conditioning (controlled ventilation), sun protection in facades and roofs, air tightness, efficient room conditioning systems, solar hot water generation, setting of energy targets, development of legislation

Discussion

Urban Planning Guidelines

- The discussion focused on who is responsible to implement guidelines and how they should be implemented and financed
- The application of the Urban Planning Law is demanded (legislation)
- Need for developing strategies and objectives of urban development

- Furthermore the participants agreed on a need for solutions on urban upgrading in Ho Chi Minh City integrating the knowledge of the Research Project.

Concept of a Policy and Design Catalogue

- The participants came to the conclusion that a Design Catalogue for energy efficient and climate adapted residential housing design and policies should be developed and will focus on the shop houses typology (other typology optionally)
- The catalogue will present efficient building materials, building services etc.

- A pilot design should test the model of a design catalogue to encourage people to apply energy-efficient design

Further Steps

- A Memorandum of Understanding (MoU) will be signed by both sides for further cooperation
- A collaborative Design Catalogue will be published
- Further Round-tables are planned

Contact

Department of Urban Planning
and Spatial Design
Visiting Prof. Dipl.-Ing. Frank Schwartze

Konrad-Wachsmann-Allee 4
03046 Cottbus
Germany

Coordination Urban Development
P +49 (0)355 69 33 57
F +49 (0)355 69 38 35
E frank.schwartze@tu-cottbus.de

Project coordination
P +49 (0)355 69 2384
F +49 (0)355 69 30 46
E hoppeb@tu-cottbus.de

www.megacity-hcmc.org
www.emerging-megacities.org