

UN-HABITAT Environmental Technology Expert Group Meeting II
*“Technical Cooperation for Sustainable Environmental Development
in the Asia-Pacific Region”*
Meeting Report

Day One: Thursday, 30 September 2010: Expert Group Meeting

Proceedings of Day One Morning Session:

Chairperson: Toshi Noda, Sachiyo Hoshino

- 09:30-09:45 Welcome and introductory remarks by Toshi Noda, Regional Director, UN-HABITAT Regional Office for Asia and the Pacific (Fukuoka)
- 09:45-10:05 Keynote Presentation by Mr. Yasuhiro Tashiro, Senior Project Manager, Fukuoka Prefecture ‘Hydrogen Energy Strategy’
- 10:10-11:10 Country presentations (10 minutes):
- (1) China (Dr. Wang Xiaoming, Professor, School of Civil Engineering and Mechanics, Huazhong University of Science and Technology (HUST))
 - (2) Viet Nam (Ms. Pham Thi Thu Huong, Chief Technical Adviser, UN-HABITAT Water and Sanitation Team Viet Nam)
 - (3) Cambodia (Mr. Avi Sarkar, Chief Technical Adviser, UN-HABITAT Water and Sanitation Team, Cambodia and Laos)
 - (4) Laos (Mr. Avi Sarkar, Chief Technical Adviser, UN-HABITAT Water and Sanitation Team, Cambodia and Laos)
 - (5) Philippines (Mr. Leovic Dioneda, Mayor, Sorsogon City)
- 11:10-12:00 Kyushu Technology presentations (10 minutes):
- (a) Kitakyushu City (Asia Low Carbon Center) (Mr. Makoto Iizuka, Technology Transfer Manager)
 - (b) Kyuden Co. (Solar Energy) (Mr. Tadayoshi Chiyoda, Manager, New Energy Resource Group)
 - (c) Nishinippon Environmental Energy Co. (Poultry Litter Biomass Energy Plant) (Mr. Tetsuro Inumaru, General Manager, Project Development Dept.)
 - (d) West Japan Engineering Consultants (Geothermal Energy) (Dr. Koichi Tagomori, General Manager, Geothermal Division)
- 12:00-13:00 Discussions
- Highlights of the Discussions: Intensive discussions, with technical and in-depth questions were made to the technologies presented such as: How much poultry litter is required to operate a biogas facility, and how can Asian cities/countries start on a demo scale? How is methane gas (derived from poultry litter) managed? How can solar energy be linked to water pumping systems? How can solar panels be manufactured locally or purchased at lower cost? How does dust and smog affect the efficiency of solar panels? How much investment is required for a city to become ‘low carbon’? What is the best model scenario to create a low carbon city? How can countries/cities apply for a feasibility study on geothermal energy?
- 13:00-14:00 Lunch Break:

Proceedings of Day One Afternoon Session:

- Chairperson: Toshi Noda
- 14:00-14:20 Keynote Presentation by Oki Township Government – Oki Town’s Biogas and Recycle Center Initiatives by Mr. Kimio Sakai, Chief, Environment Recycle Department
- 14:20-15:20 Country presentations (10 minutes):
- (6) Indonesia (Mr. Djoko Budi Walujo, Senior Adviser on Renewable Energy, Ministry of Energy and Mineral Resources)
 - (7) Mongolia (Mr. Gankhuu Tsevelsodnom, Chief Engineer and Head of Investment Department, Ulaanbaatara City Investment Department)
 - (8) Nepal (Dr. Amrit Nakarmi, Professor, Center of Energy Studies, Tribhuwan University, and also representing Nepal was Dr. Rohan Shrestha, Chief Technical Adviser, UN-HABITAT Water and Sanitation Team, South Asia)
 - (9) Sri Lanka (Mr. Laxman Perera, Habitat Programme Manager, UN-HABITAT Sri Lanka)
 - (10) Pakistan (Mr. Zia Ul Islam, Director of Environment Department, Ministry of Environment)
 - (11) Afghanistan (Mr. Mohamad Rahman, Project Manager, UN-HABITAT Kabul Office)
- 15:20-16:20 Japanese Technology presentations (10 minutes):
- (e) Nishippon Environmental Energy Co (Biomass Consulting) (Mr. Oichiro Umezu, Project Development Department)
 - (f) Miracool Co. (High reflective coating paint) (Mr. Noriyuki Fukae, Managing Director)
 - (g) Nose Construction (watermills) (Mr. Hidehiro Nose, President)
 - (h) Eco Tech Inc. (solar cookers) (Mr. Toshiaki Hayashi, Head of Kyushu Branch Office)
- 16:20-17:20 Discussions
- Highlights of Discussions: Intensive discussions continued and many practical questions were raised such as: What is the cost to coat 1 square meter of a roof of a building in Asia? What is the effect in winter or in colder climates? What is the smallest scale demo water mill? How long will it take to train local people in building water mills? How can Asian communities learn to make and use solar cookers? How could UN-HABITAT projects link with the practices at Oki Town?
- 17:30 Wrap up and Closing
- 19:00 Reception
(jointly held with UN-HABITAT Regional Meeting Participants)

Day Two: Friday, 1 October 2010: Site Visit to Environmental Technology Facilities in Fukuoka

- Morning ‘Wind Lens’ wind power facility in Fukuoka City
- The EGM group visited Momochi Water Front Park ‘Wind Lens’ wind power, a unique wind power turbine developed jointly by Kyushu University and local manufacturing company. Currently three wind turbines are used in the park on pilot scale, each generating 3,000 kw annually. Not requiring ‘blades’ to capture wind, this wind turbine is compact, quiet and therefore is possible to be placed in

urban and residential areas. It is also 1.3-1.5 times efficient in generating power compared to common wind turbines.

Afternoon

Oki Town Biogas plant and Kururun Recycle Facilities

Courtesy call to the Town Hall and greetings by Town Mayor

In the afternoon, the group visited the bio gas facility run by Oki Town, in the suburbs of Fukuoka Prefecture. It is one of the only three townships in Japan having its own biogas plant, where the organic waste



and human waste from town's entire population 15,000 is collected by the town and put in the facility to generate power,

which is used to operate the facility itself and an organic food restaurant in the same premises, also run by the town.

