

Volume 8, Summer 2010

CLUSTERS UPDATE



*Clusters Update
Volume 8, Summer 2010
February 2010 – August 2010*

The CITYNET Secretariat has initiated the CLUSTERS UPDATE to widely publicise the activities, progress and achievements of the Clusters of CITYNET. The CLUSTERS UPDATE is produced twice a year (winter and summer) and printed in the form of CD ROMs. It is the compilation of reports submitted by CITYNET members participating in each of the activities. The reports themselves are in their original form and have not been edited by the CITYNET Secretariat in order to maintain ownership of the CLUSTERS UPDATE among the members.

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Eighth Edition, August 2010.

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ACRONYMS & ABBREVIATIONS

ACHR	Asian Coalition for Housing Rights
ADB	Asian Development Bank
ACVN	Association of Cities of Vietnam
AIILSG	All India Institute of Local Self Government
APEC	Asia-Pacific Economic Cooperation
ASAG	Ahmedabad Study Action Group
AWAREE	AWAReness on Environmental Education
BMA	Bangkok Metropolitan Administration
BRTS	Bus Rapid Transit System
C2C	City to City (Cooperation)
CBO	Community-Based Organisation
CDIA	Cities Development Initiative for Asia
CDRI	Climate Disaster Resilience Initiative
CIFAL	Centre International de Formation des Autorités/Acteurs Locaux (International Training Centre for Local Authorities/Actors)
CLAIR	Council of Local Authorities for International Relations of Japan
DENR	Department of Environment and Natural Resources of the Philippines
DRR	Disaster Risk Reduction
EE	Environmental Education
EMI	Earthquakes and Megacities Initiatives
GIS	Geographic Information System
GDLN	Global Distance Learning Centre
HELP-O	Human & Environment Links Progressive Organization
ICLEI	International Council of Local Environmental Initiatives
ICT	Information and Communication Technology
ITTO	International Tropic Timber Organization
IUTC	International Urban Training Center
JICA	Japan International Cooperation Agency
KLRTC	Kuala Lumpur Regional Training Centre
KMC	Kathmandu Metropolitan City
LRT	Light Rail Transit
MaRGG	Management Resources for Good Governance, Sri Lanka
MAUC	Mongolian Association of Urban Centres
MCGM	Municipal Corporation of Great Mumbai
MDGs	Millennium Development Goals
MMRDA	Mumbai Metropolitan Region Development Authority
MOC	Memorandum of Cooperation

MRT	Mass Rapid Transit
MuAN	Municipal Association of Nepal
NGO	Non-Government Organization
NPO	Non Profit Organization
NRW	Non-Revenue Water
PIEDAR	Pakistan Institute for Environment Development Action Research
PDAM	Water Utility (Perusahaan Daerah Air Minum)
PPBI	Phnom Penh Biogas Initiative
PURSUE C2C	Partners United for Realising A Sustainable Urban Environment through City-to City Cooperation
SDI	Seoul Development Institute
SHRCD	Seoul Human Resource Development Centre
SPARC	Society for Development Studies
SWM	Solid Waste Management
TAS	Technical Advisory Service
TCDC	Technical Cooperation between Developing Countries
TDLC	Tokyo Development Learning Centre of the World Bank
UCLG	United Cities and Local Governments
UNESCAP	United Nations Economic and Social Commission for Asia and the Pacific
UNHABITAT	United Nations Human Settlements Programme
UNCRD	United Nations Centre for Regional Development
UNISDR	United Nations International Strategy for Disaster Reduction
UNITAR	United Nations Institute for Training and Research
WATSAN	Water and Sanitation
WTO	World Toilet Organization

EXECUTIVE SUMMARY

The eighth edition of Cluster Updates covers the programme and activities of four clusters namely **Climate Change, Infrastructure, Disaster and MDGs** carried out from February to August 2010.

The cluster update aims to widely disseminate the activities, progress and achievements of the activities of CITYNET clusters. It comprises reports submitted to the Secretariat by participating cities and organisations, members of clusters and also the reports produced by the Secretariat.

The Secretariat appreciates every member for their contributions and wishes the continuous active participation for the clusters activities. The Secretariat also expects the continued role of the cluster committee in ensuring the effectiveness and efficiency of the clusters so that cluster's target can be achieved towards achieving the liveable cities in Asia and the pacific region.

2010 CITYNET Clusters

To increase ownership of the organisation, CITYNET Secretariat introduced the Cluster System which began in 2003. In 2007, the Clusters went through some changes and comprised of ENVIRO (mainly on solid waste, water and sanitation), INFRA (sustainable transport and integrated urban planning), DISASTER (disaster risks reduction), ICT and MDGs. At the 2009 CITYNET Yokohama Congress, the Clusters went through further revisions to incorporate the current needs and priority areas. The ENVIRO Cluster has been renamed CLIMATE CHANGE Cluster with no sub-clusters but will include all activities being carried out under ENVIRO Cluster. The ICT Cluster will be terminated but its activities will continue under other clusters. The remaining clusters INFRA, DISASTER and MDGs remain the same.

The four clusters from 2010 are:

- 1) CLIMATE CHANGE
- 2) DISASTER
- 3) INFRA and
- 4) MDGs

List of Cluster members are provided at the end of this report.

CLIMATE CHANGE Cluster

Biogas Project in Negombo

Negombo has been implementing the project on “Promoting Sustainable Sanitation through Enhanced Partnership: C2s Cooperation on waste reduction focusing on Biogas”. The expected outcome of the project includes improved sanitation, multi-stakeholder partnership, improved public health, promotion of green technology, and a lower urban carbon footprint. The Project is funded by UNITAR and French Government and implemented for the period of June 2010 until March 2011. HELP-O has been involved in bridging the Municipality and the local community.

Phnom Penh Biogas Initiative Programme

Ongoing monitoring of the joint programme on biogas from CITYNET, UNITAR and the French Government is continuing. The programme resulted in the initial construction of six new biogas units, with five more planned for the Phnom Penh municipal landfill. This project overcame initial difficulties including technological differences, lack of funding, and a language barrier to create long-lasting impacts. Improved capacity, team work skills, and community participation will continue to benefit the citizens of Phnom Penh. The high level of commitment on the part of involved officials complemented the plentiful media coverage.

Eco Tank Project

(The project was previously listed under ENVIRO - WATSAN Sub Cluster)

CITYNET Secretariat has been coordinating the eco-tank project, formally known as City-to-City (C2C) Cooperation for Decentralized Sewerage Treatment Using Eco-Tanks funded by Prince Albert II of Monaco Foundation through UNITAR, since 2008. 2010 is going to be the final year of the project and the pilot project cities of Palembang and Negombo have adopted and are implementing the eco-tank technology. The third beneficiary city is San Fernando, whose study visit to Bangkok to learn about eco-tanks was conducted from February 24-26, 2010.

During the study visit, the Secretariat facilitated a meeting between the Bangkok Metropolitan Administration (BMA) and San Fernando, USAID, and Premier Products Company (PP) to discuss the expansion of the Eco-tank project in San Fernando La Union. Eco-tanks are currently used in Bangkok, helping the city manage the 2.7 million cubic meters per day of sewerage. Eco-tank has many advantages. As the tanks can be installed above or below ground, it is easy to find space for them. Once installed the tanks intake sewerage and produce biogas, which can be used for household cooking, and effluent water, which can be used for various non-consumption purposes.

A survey of the future sites for the installation of Eco-tanks was undertaken by Secretariat staff in San Fernando, La Union from June 18-20. During the visit they met with the Vice-Mayor of San Fernando, officials of the

Environmental Department and Treasury Department as well as representatives from the Department of Environment and Natural Resources (DENR) of the Philippines. San Fernando proposed two possible sites for the Eco-tanks, one located in San Francisco Beach and the other in the Fishermen's Village. The proposal included connecting the dirty water flows from three canals and treatment of the water which would flow into the larger capacity of an Eco-Tank. Both sites have strong arguments for the benefits that the Eco-tanks would provide especially considering aspects of economic development, improvement of the environment and quality of life for the marginalised people. Protection of the cleanliness of San Francisco beach is in line with the city's plan for upgrading the facilities located there as well as the wastewater from 35-50 cubos (beach huts). The Eco-tanks would provide benefits to both the 5000+ visitors a year as well as those utilising the cubos.

SF indicated their full support and willingness to pursue the project according to the timeline stated by CITYNET. They will also allocate their own funding for publications and promotion in San Fernando. The Secretariat wishes to commend the commitment from city officials and the local barangays as well as USAID and looks forward to the successful implementation of the tanks which is due to start installation at the end of summer/early fall. CITYNET funds two Eco-tanks and an allowance for community awareness and a capacity building programme; while San Fernando covers other costs.

CITYNET and YWWB (Yokohama Waterworks Bureau) Training Programme

CITYNET/YWWB training programme was held on from July 4-17, 2010. Participants from Banda Aceh, Medan, All India Institute for Local Self Government (India), Hue, and Ho Chi Minh took part in a two week training course where they learnt a wide-range of issues such as technical and non-technical aspects of managing waterworks. Issues covered were NRW that includes water lost through leakages in pipes and illegal connections, leakage prevention work as well as customer service, human resource development techniques. The course also included an introduction to the Japanese waterworks system focusing on Yokohama and featured site visits to water resource areas, purification plants and to sites doing maintenance on leakage work.

CITYNET Supporters - Tree-Planting Project

The "CITYNET Supporters" in Yokohama is a group of city officials and citizens supporting the mission and programmes of CITYNET. In 2009 more than 50 members donated more than USD1300 for CITYNET programme activities. The "CITYNET Supporters" would like to contribute to the betterment of the environment in member cities through tree-planting and other environment-related projects. CITYNET Secretariat accepted proposals from member cities outlining their tree-planting project and how the money could be best used in their city. After careful consideration, the CITYNET Supporters have selected

the proposal submitted by Hue's civil society group recommended by Hue City People's Committee.

DISASTER CLUSTER

Climate and Disaster Resilience Initiative (CDRI) in Asia-Pacific

The pilot project of the 'Climate Disaster Resilience Initiative' (CDRI), which strengthens the capacities of Asian cities to mainstream Disaster Risks Reduction (DRR) in city planning and management, got a strong start in February with 44 participants from eight cities joining the sessions. The joint effort between The World Bank/TDLC, Kyoto University, SEEDS India, UNISDR and CITYNET utilises blended learning technology (video concerning, online learning) to develop disaster indices and action plans for the cities as well as providing an opportunity to share their experiences.

The overall goals of this program are to motivate and enable city government officials to become aware of current and future potential risks of climate-related disasters, and to initiate the development and implementation of the Climate Action Planning (CAP) in their own context in order to build resilience of their urban systems and communities.

The program package was divided into 3 stages:

Stage 1: Capacity-building of city government officials, to complete a CDRI Questionnaire for creation of overall resilience mapping;

Stage 2: Training and Action Workshop, to design a self-evaluation matrix and to initiate CAP;

Stage 3: Initiating development of CAP and implementation process

Stage one of the capacity-building efforts included two video conferences in which participants listened to expert lectures, shared their own CDRI questionnaires, and learned about the Self Evaluation Matrix and CAP. Stage two was a face-to-face workshop on CDRI capacity building in Kuala Lumpur from March 3-5, 2010. Following three months of self-learning, participatory action plan development, group work, and workshops, CDRI successfully completed its third stage in a video conference on April 19.

On April 19, CDRI's eight participating cities joined the final video conference. Each city presented drafts of their action plans, which they have written as part of the third stage of this project, after completing the earlier stages of online learning and document sharing (stage one), and in-person training in Kuala Lumpur (stage two). Despite the relatively short length of the programme, each city produced incredibly detailed action plans, many highlighting up to 45 concrete future projects.

As a follow-up to the CDRI Capacity Building Programme, Ms. Yuki Matsuoka from UNISDR Hyogo Office conducted face-to-face interviews with the departments and offices that compose the CDRI Makati Team for a microanalysis study on the implementation of the Hyogo Framework for Action (HFA) by local governments during the period of May 26-28, 2010.

Outcomes of the CDRI Capacity-building Program

Eight cities participated in the program, namely, Chennai (India), Colombo (Sri Lanka), Dhaka (Bangladesh), Hue (Vietnam), Kuala Lumpur (Malaysia), Makati (including League of Cities of the Philippines), Sukabumi (Indonesia), Suwon (Korea) . In total, 57 people registered via the Moodle site. The program was started from February 8, 2010 and successfully completed on April 30, 2010. Among them, 42 people access to the Moodle site and participated in VC sessions.

Although each participant was required to go through all self-learning module by an individual, the rest of the program requested participants to work as a group on a city-basis to produce final output documents namely "Policy Framework" and "Climate Action Plan (CAP)". All cities successfully submitted these documents and some of the cities are still working on further restructuring of and polishing off CAP in order to receive endorsement from their city mayors. Makati City was the first city to receive endorsement from its Mayor in June, 2010. It was very encouraging news for the program organisers and other cities. Makati is a successful case in this context as the plan was integrated in the city planning and will be institutionalised. The program organisers expect to have more cities to get such endorsement from city mayor soon.

UNISDR Campaign on Building Resilient Cities

UNISDR has launched the 2010-2011 World Disaster Reduction Campaign "Making Cities Resilient." The Campaign addresses issues of local governance and urban risk, while drawing upon previous ISDR Campaigns focusing on safer schools and hospitals. The campaign also draws on sustainable urbanisation principles developed during the UN-HABITAT World Campaign 2009-2013. With a slogan of "MY CITY IS GETTING READY!" the campaign emphasises the importance of building safer and more resilient communities in local governmental agendas, and puts the Hyogo Framework for Action 2005-2015 into effect.

For more details: <http://www.unisdr.org/english/campaigns/campaign2010-2011/>

School Reconstruction Project in Muzaffarabad

The school reconstruction project in Pakistan funded by citizens of Yokohama is finally completed. CITYNET was actively involved in the post disaster construction in Sanawarian, Muzaffarabad where they experienced tremendous damages during the 2005 Pakistan Earthquake. In the Sanwarian

Village, it is estimated that 85 local children and their families (circa 250 in total) will benefit from the project which was coordinated by PIEDAR, a local NGO and member of CITYNET. The project was funded by Yokohama citizens as part of the long-term recovery plan for the 2005 earthquake in which over 79,000 people perished and millions were left homeless.

PIEDAR provided furniture and made arrangements for electricity and water supply connections. Both, electricity and water supply system have been connected. Now the school is ready for the possession for utilising the premises for children education. *(No supporting document has been submitted by PIEDAR)*

INFRA CLUSTER

KLRTC Training Course XIX on Solid Waste Management in the Asia-Pacific Region

The 19th Kuala Lumpur Regional Training Centre on Solid Waste Management in the Asia Pacific Region was held from 26-29 April 2010 in Kuala Lumpur, Malaysia. The Training is organised under the auspices of the Kuala Lumpur Regional Training Centre, in short KLRTC, or CIFAL (in French: Centre International de Formation des Autorités/Acteurs Locaux, or International Training Centre for Local Authorities) Kuala Lumpur. KLRTC was launched in 2003 as a joint initiative between UNITAR, CITYNET, Kuala Lumpur City Hall, Veolia Environnement, and UNDP, with the aim of strengthening the capacity of local governments to manage sustainable development. KLRTC 19th was tailored for city administrators, planners, and those who are involved in solid waste management in their cities/organizations.

Participants from city governments in 18 countries were joined by representatives from UNITAR, private companies, NGOs, and educational institutions. Participants enjoyed lectures by high-caliber speakers of Malaysia's National Solid Waste Management Department and the International Green Purchasing Network (IGPN). They were further briefed on best practices and master plans from representatives of Jakarta, Dhaka, Taipei, Phnom Penh as well as the practicalities of Public-Private Partnerships from Alam Flora, Malaysia's largest solid waste management contractor. KLRTC also welcomed the first ever participation from Brunei. Site visits included a technical tour of a waste transfer station, a community centre and the state of the art facilities of Putrajaya.

Using the CITYSHARE matrix - the flagship KLRTC methodology introduced by UNITAR, participants assessed their level of development and subsequently presented their concrete action plans in the later part of the training. After the completion of the course, these action plans continue to be monitored so that cities take full advantage to further enhance their knowledge on managing and reducing solid waste. The KLRTC 19th allowed participants to

discuss and share their ideas which could be applicable to their cities. Rapidly growing cities with increasingly affluent populations have numerous constraints while planning. The knowledge shared in this course will ideally contribute towards the dream of prosperous, liveable cities for Asia. CITYNET looks forward to building upon the action plans and furthering commitments to C2C cooperation made at this session.

“Promising new C2C partnerships were a significant outcome of the 19th KLRTC/CIFAL Kuala Lumpur training on Solid Waste Management in the Asia Pacific Region.”

Many of the 35 participants formulated plans to exchange experience particularly with Taipei in city-wide integrated solid waste management and environmental education. To achieve waste reduction, Taipei started implementing the ‘Per Bag Trash Collection Fee’ policy. Based on the polluters pay philosophy, all residents pay to have their trash collected and a certified trash bag is used to measure their trash volume. Residents are required to load the trash in the certified trash bags before handing over to the collection crews. To encourage recycling, recyclables are collected for free to encourage a ‘throw less pay less, recycle and save more’ mindset. This has resulted an average daily reduction 1165 tons off the 1999 value of 2970 tons, or 39.2% daily waste volume per capita since 1999.

In addition, Taipei City has promoted a vision of ‘Total Recycling and Zero Landfill 2010’, where all municipal waste will be recycled and landfills will no longer be needed. This will mean overcoming bottlenecks such as the immaturity of reuse technology for a portion of the waste material, as well as underdeveloped markets for certain recycled products

Waste collection and disposal is a basic urban service. To effectively manage, rather than dispose of waste is the economic solution. Taipei used to adopt a downstream management philosophy for SWM, but this was challenged by the ever-increasing volume of waste. Taipei City is proud of its success in waste reduction and resource cycling, but there is a long way to go before reaching the final goals of zero landfill and total recycling. To face this challenge, cities need perfect planning, promote supporting projects, and most importantly, the cooperation and support of their citizens to ultimately transform into an eco-city. Other cities laid foundation for partnerships as well. Dhaka plans to partner with Kuching and Kuala Lumpur to exchange best practices in Public-Private Partnership.

KLRTC Training Course XX on Integrated Urban Planning

To learn and share information on urban planning, participants from 12 Asian countries representing 15 cities and NGOs attended a training course in Kuala Lumpur, Malaysia from 26-29 July, 2010 entitled Integrated Urban Planning in the Asia Pacific Region. The four-day training course covered lectures and presentations from experts in urban planning, slum planning transportation, and environmental design. A significant part included information on keeping the balance between the human aspects and the

natural environment while making plans for urban development. The course also introduced some actions that Kuala Lumpur has taken to alleviate congestion in the city's major districts as well as strategies to upgrade and relocate informal settlements in and around the city.

C2C: Seoul-Jakarta Partnership Continues through Study Visit

As part of the C2C cooperation between Seoul and Jakarta (borne from the action plans engendered during KLRTC 18th in December 2009), delegates from the Seoul Metropolitan Government (SMG) visited Jakarta and Bandung between April 7-9, 2010. This was in reciprocation of the visit by Jakarta officials to Seoul in March for the signing of MOU between the two cities on sustainable transportation systems (STS). While in Jakarta, the Seoul delegation, led by Mr. Yong Mok Shin, Director of Transportation Policy met with various Jakarta transportation officials, including Ms. Handhayani, Assistant Secretary for Development (now Head of Urban Planning Board), Ms. Rini, the Head of Transjakarta, Jakarta's famous BRT system, and Deputy Governor Sutanto. On the agenda for discussion was the status of Jakarta's transportation, the implementation of major projects and the plans in place for MRT in Jakarta. The Seoul delegation also experienced first hand riding the Transjakarta and fare collection system. Based on the MOU, SMG and Jakarta will continue to cooperate closely on the STS project. SMG intends to submit a feasibility study report on the Transjakarta fare collection system and propose an appropriate action plan. During the visit to Jakarta, SMG officials also took the time to visit Bandung, where they met the transportation authorities and toured the city's traffic control centre.

(No update report has been submitted either by Seoul or Jakarta)

C2C: SMG and Palembang - Report on Visit to Palembang

Exchange visits by technical experts from Seoul and Palembang occurred within the C2C framework in order to share Seoul's experience in transportation planning, in particular the BRTS. The three experts from Seoul who visited Palembang have completed their report, outlining their recommendations for the City of Palembang's new bus system. The recommendations include the traffic and parking management, bus operation as well as road-lane separation of roads. The report is available on request from the CITYNET secretariat and is part of the 2010 Winter Clusters Update.

Outcomes of AILSG to Secretariat

Mr. Ajay R. Agrawal and Mr. Nachiket Dhruva, the Executive Directors of AILSG visited CITYNET Secretariat in Yokohama in June 2010. With their input, insights and enthusiasm, the Secretariat staff were able to have a fruitful meeting, and come up with several achievable short-term goals presentable to the upcoming CITYNET Executive Committee this October, the outcomes of their visits are:

- 1) **Survey the Current Resources and Needs of Cluster Members (Immediate):** AILSG expertise in providing training focused to specific needs of Local Governments can be applied in a survey and

analysis of INFRA cluster members. CITYNET Secretariat has provided the necessary contact information and AILSG has designed the format and draft questions of the survey.

- 2) **Create an Online Forum for Cluster Members (July-August):** AILSG experience in this regard is a good opportunity. With CITYNET's revamped website, an online platform can be promoted to encourage dialogue between cluster members. Mr. Agrawal will facilitate this on-line discussion.
- 3) **Organise a joint seminar in Mumbai on the INFRA Cluster (mid September):** The purpose of this 2-day seminar, to be jointly hosted by AILSG, MCGM and CITYNET is to introduce CITYNET and INFRA cluster activities particularly to potential Indian member cities. The Seminar will also provide the opportunity for members of the Cluster to present their case studies, particularly from SMG (the Lead City of the INFRA Cluster) as well as other examples of international C2C cooperation.

MDGs CLUSTER

Urban Safety in the Asia Pacific & Workshop in Marikina

CITYNET, UN-HABITAT, UNESCAP, SPARC and ACHR have jointly been implementing the project on urban safety for the poor, with a focus on the most vulnerable groups in Asia and the Pacific. The project aimed to raise awareness on issues of urban safety, through analysis and collection of information and the identification good practices. Throughout the region, communities and NGOs have developed innovative approaches to tackle urban safety, such as women's safety audit and community policing. The project has aimed to document these practices and to share experiences between cities.

Its first workshop "Putting Safety First for the Urban Poor on the Local Agenda" hosted by Marikina from June 15-17, 2010 explored urban safety in depth through various lenses and perspectives. This joint event facilitated discussions centering on challenges in the region with a focus on governance and policing. Innovations and tools were used to inform the way towards more meaningful and practical actions. The workshop had three main objectives:

1. Identify challenges of safety for the urban poor, in particular looking at issues of governance and policing for urban poor communities, and collaboration between communities and local government actors;
2. Share experiences and showcase innovations that are aimed at making cities safer;
3. Discuss how to explore the issues further and develop a plan of action.

Representatives from 15 municipalities from over 10 countries within the region included those from LGs, community groups, international organisations, academia and the police department participated in the Workshop. Perspectives from outside the region such as from Bogota, Colombia were also shared. The three days of lively discussion also featured outcomes from the joint study and project of UN-HABITAT as part of its Safer Cities Programme (SCP) along with country presentations, interesting practices in governance and open forums. Highlights of the workshop were site visits which offered a high amount of accessibility to many different venues such as the Sewage Treatment Plant (STP), the Public Safety Centre, the Marikina Public Schools, the Marikina River Park, the Central Command System of Rescue 161 and the Public Services Center and Engineering and the Central Warehouse. Furthermore, a visit to the Makati police station and its Command Control and Communication System illuminated participants to the challenges of its daily operations.

The workshop concluded with the establishment of concrete regional action plans to improve urban safety in participant cities. A key finding was the recognition of urban safety as a demand-driven, highly localised concept; therefore it is difficult to provide a collective summary of each city's plans. However, the common thread is a necessary partnership among all urban stakeholders, including LGs, police, and the communities themselves to tackle the many parameters of safety. City governments are suited to particular approaches, such as building safe physical environments, public transportation and pedestrian routes. NGOs, meanwhile, can work with specific populations on issues like gender roles, community policing and opportunities for a better livelihood.

CITYNET will provide an online platform for further networking between cities as they complete their urban safety agendas. Additionally, CITYNET plans to incorporate urban safety as an issue in more training and capacity building programmes, particularly in future KLRTC trainings, as well as further exchanges of knowledge through CITYNET's flagship C2C Cooperation Program.

NATIONAL CHAPTER ACTIVITIES

Bangladesh

- **Climate Change Seminar:** Dhaka City Corporation, the Presidency City of the Bangladesh National Chapter organised two seminars related to the global warming and climate change in June as part of the low carbon emission project. The Seminar aimed to increase the awareness of the community people about climate change. The National Chapter member, Bangladesh Centre for Advanced Studies (BCAS) sent two resource speakers in the seminars.

- **Rooftop Gardening, Composting and Rainwater Harvesting Pilot Project:** Bangladesh National Chapter is moving forward with a roof top gardening pilot project in Dhaka to promote composting and rainwater harvesting. The project is receiving USD 4,000 from CITYNET.

Indonesia

- **Hospital Waste Management Pilot Project:** National Chapter Indonesia has carried out and complete a pilot project on hospital waste management in Sukabumi. The project was implemented with funding from CITYNET. The project report is attached.

Nepal

- **School Sanitation Pilot Project:** National Chapter Nepal has taken a school sanitation project with Tansen Municipality. Toilet construction and sanitation training for students are the main components of the project. The project is funded by CITYNET.

The outputs/outcomes of all pilot projects of National Chapters will be presented at the upcoming Executive Committee in October this year.

OTHERS

Post-AWAREE TV Conference III and Action Plans

Starting in 2007, after numerous capacity building workshop/seminars and study visits, the participating cities of Post-AWAREE (AWAREness on Environmental Education), Colombo, Danang, Dhaka and Makati, reported their achievements during the third TV Conference held on February 25, at JICA Offices in Japan, Sri Lanka, Vietnam, Bangladesh and Philippines. 32 participants attended the conference.

Colombo developed techniques for EE, and educated teachers to implement waste segregation and composting at schools. Public awareness on the 3Rs was increased in neighborhoods of all different income levels. Post-AWAREE has contributed to the reduction of solid waste to approximately 10% since the Project began in 2007. Colombo will continue to cover EE in the curriculum. The city is committed to continuing its efforts to partner with private sector and NGOs and to share with other cities their experience from POST-AWAREE.

Danang presented three of their seven main activities covered since September 2009, including a 20-minute EE TV program airing twice a month, the Clean-green-beautiful Sunday where more than 1,000 people joined in a campaign to collect solid waste and plant trees. They also developed the Green book project which helps factories to comply with new environmental

regulations. Other planned activities included an eco-village project and a solid waste reduction project.

Dhaka's projects included solid waste education in the schools, community, a better waste collection system and a new sanitary landfill. The third year action plan included more EE in schools and community, waste market, low carbon emissions, and installation of solar panels. Waste compacters and segregated bins have been provided in six wards, and in May, 100 eco friendly waste collection trucks began operation. Through their master plan, Dhaka aims to be a clean, green city by 2015.

In Makati, the city government has been continuing with its EE commitments. A climate change module has been integrated in school curriculum and the city has sponsored special environment celebrations. Groundwater extraction and databases would begin in 2010. Signage regarding water conservation has been updated and 3,000 signs have been distributed to government offices of Makati city. Makati plans to continue their Post-AWAREE commitments and will try to help other member cities in CITYNET by sharing their experiences and extend technical assistance to whoever needs it.

The City of Yokohama made a presentation on the progress in fighting pollution, stressing long-term initiatives needs. Various NGOs, including OHANA and HELP-O, NGOs from Japan and Sri Lanka, respectively were also invited to present their work on green curtain and biogas projects. The six year legacy of AWAREE and Post-AWAREE shall continue by video conferences every 6 months to monitor progress. Presentations from Colombo, Danang, Dhaka & Makati are available in CITYNET website.

Pre-APEC International Workshop on Adaptation to Climate Change for Resilient Asia-Pacific Cities

CITYNET organised the "Pre-APEC International Workshop on Adaptation to Climate Change for Resilient Asia-Pacific Cities" on August 17-18, 2010 with support of CLAIR (Council of Local Authorities for International Relations of Japan) and the City of Yokohama. This Pre-APEC Workshop aimed to assist Asian cities strategically plan for resiliency against the impacts of climate change. The varied expertise and experience of local governments from APEC countries, including Japan were shared. The main focus of the Workshop was centered on the critical importance of adaptation to climate change, issues include but are not limited to water, food as well as disaster preparedness. The Workshop brought the result in the drafting of the Declaration/Statement for submission to the APEC leaders, and the establishment of partnerships in the form of City-to-City Cooperation designed primarily to share practical methodology enabling adaptation to the impacts of climate change.

All case studies presentations and photos are available at: www.citynet-ap.org/media-room/resources/