

CIFAL KUALA LUMPUR

KUALA LUMPUR REGIONAL TRAINING CENTRE

KLRTC UPDATE

Organisers for KLRTC XIX:



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A PUBLICATION REPORTING THE OUTCOMES OF KLRTC PROGRAMMES

KLRTC XIX: SOLID WASTE MANAGEMENT IN THE ASIA & PACIFIC REGION

Promising new C2C partnerships were a significant outcome of the 19th edition of KLRTC on 'Solid Waste Management in the Asia Pacific Region' which was held from 26 to 29 April. Participants from city governments in 18 countries were joined by representatives from UNITAR, private companies, NGOs, and educational institutions. In addition, participants enjoyed lectures by high-calibre speakers including Datuk Dr. Nadzri Yahaya, Head of Malaysia's National Solid Waste Management Department and Mr. Augustine Koh, the Secretary General of the International Green Purchasing Network (IGPN). They were further briefed on best practises 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. The participants were also graciously hosted by Kuala Lumpur Mayor Datuk Seri Ahmad Ismail Fuad at a welcome dinner in the city.

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 XIX course 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. The KLRTC team thanks all participants for their hard work.

Taipei Solid Waste Management: Long term planning pays off

Taipei City is home to an estimated 2,630,000 people. Taipei City, Taipei County, and Keelung City together form the Taipei metropolitan area with a population of 6,800,000. With a total area of 272.14km², 46.25% of the city's total area has been developed, with households getting increasingly smaller. 92.3% of businesses based in Taipei belong to the tertiary industry; namely commerce, transportation, finance and service industries. This, together with the 3 million people that come in and out of the city daily, generates a huge amount of trash.

To achieve waste reduction, the city 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 (Cont. Pg 2)

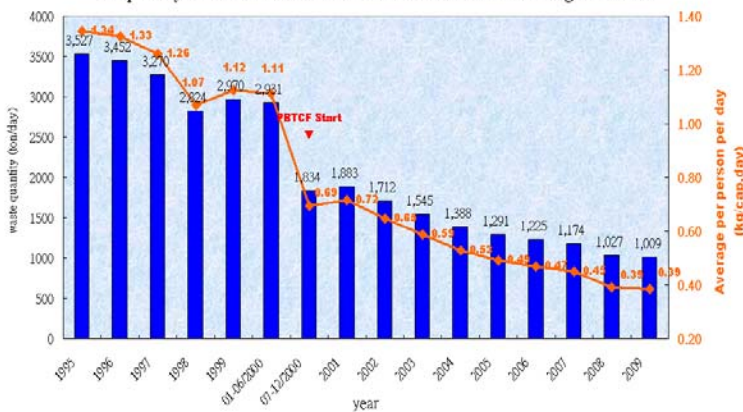


Taipei's famous musical garbage trucks. City residents line up to directly dispose of their waste - part of the city's 'Waste No Touch Ground' Policy

"The opportunity to share knowledge on so many issues on solid waste management was highly valuable. I am highly thankful to the CITYNET Secretariat and City Hall of Kuala Lumpur for facilitating such a programme"

**- Pg. Omar Ali Pg. Md. Yusof
Special Duties Officer, Bandar Seri Begawan
Brunei Darussalam**

Taipei city PBTCF around the household waste volume change situation



Results of Taipei's SWM policies, particularly after the introduction of PBTCF - 'Per Bag Trash Collection Fee'

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 City 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 their citizens to ultimately transform into an eco-city. For further information please contact info@citynet-ap.org or Mr. Lee directly (contact details overleaf)

Biogas and Environmental Education in Phnom Penh

Despite the biogas PURSUE (Partners United for Realising a Sustainable Urban Environment) C2C project with HELP - O and the Phnom Penh Municipality coming to its official end last December, plans remain to continue sharing and implementing the technical skills learned during the project. Lessons learned from the project was espoused by Mr. Nuon Samnavuth, of Phnom Penh's Dangkor Landfill site.

Phnom Penh will expand the presence of biogas, primarily focusing on building new tanks at hospitals and a drug rehabilitation centre. They will also begin waste collection at wet markets, bringing the collected organic waste to the landfill biogas tanks. Local governments from other provinces in Cambodia also plan to build biogas to reduce organic waste.

Ongoing monitoring of the programme on biogas from CITYNET, UNITAR and the French Government continues. The programme resulted in initial construction of six new biogas units, with five more planned for the Phnom Penh municipal landfill. Initial difficulties overcome included 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, with the Governor personally taking active part in promoting new progressive practices in SWM.



Discussions at the Community Collection Centre in Shah Alam

Participants were invited by the Municipal Council of Shah Alam to visit a newly established community recycling center, as a model for other cities across the country.



Site visit to the Waste Transfer Station in Kuala Lumpur

To learn more about Kuala Lumpur's solid waste management practices, participants were taken to one of the city's waste transfer stations on the outskirts of the city which was own and operated by the private company Alam Flora.



Construction of Biogas in Phnom Penh with the help of HELP-O from Sri Lanka, an associate member of CITYNET

"I will proceed with my research on the utilization of wastes for producing value-added products. I welcome any parties to collaborate with my university"

- Dr. Hidayah Ariffin
Universiti Putra Malaysia,
Malaysia

Self-Assessment Matrix Outcome

Below is a summary of the result of the Self-Assessment Matrix that the participants worked on during the workshop. Participants are expected to pursue city-to city (C2C) cooperation on various areas.

	Environment	Equitable Access	Economic Viability	Quality of Life
Something to share	Taipei Kuching	Tomohon Taipei Malacca	Dhaka Kuala Lumpur Tomohon	Bandar Seri Begawan Taipei Malacca
Something to learn	Colombo Sainshand Ratnapura Sidoarjo Pokhara	Dhaka Pokhara Ratnapura Kuala Lumpur Colombo	Kuching Phnom Penh Sidoarjo Dhaka Sainshand	Sidoarjo Sainshand Phnom Penh

*A part of a result drawn after using the Self-Assessment Matrix.
This will be used to match cities that needs assistance with those that can contribute.*

The results indicate that cities can learn and share information useful for other cities. The exercise helps to understand not just the information on a particular area but also implementation plans, strategies for sustainability, cost, effectiveness, feasibility and challenges. As representatives have the opportunity to engage in discussions and form action plans based on their results of the Self-Assessment Matrix exercise, it allows them to directly connect with the city of their interest and make plans to proceed with the actions plans. UNITAR and CITYNET follow-up on the action plans proposed by the cities to monitor their progress on activities and programmes.

For the full set of results and documentation of pledges please visit the CITYNET resources website or contact us at info@citynet-ap.org.

KLRTC 2003 - 2010 Review Survey

We would like to draw your attention to a survey that will be conducted in advance of the 20th edition of KLRTC to quantify and showcase the achievements of KLRTC. This survey will be distributed to all the cities and organisations that have participated in the KLRTC programme since its inception in 2003. Specifically the survey will:

- 1) Quantify the impact of KLRTC attendance to a city's growth in terms of variables such as population, GNP, GDP, service provision, MDG targets and other indicators;
- 2) Chart the effect the training has had to an individual participant's professional responsibilities and expertise.

Please participate - it is only with your input that KLRTC remain the consistent success it has been since its inception in 2003!

KLRTC XIX PARTICIPANTS

(Alphabetically by city - not including local participants)

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The organisers would like to thank the speakers who contributed their presentation materials to participants. For conference material please contact the CITYNET Secretariat at info@citynet-ap.org

It was a good and meaningful opportunity for participants to exchange information and share responsibility on various issues surrounding solid waste management. I hope that my city will be able to participate in future KLRTC events.

- Mr Sushil Poudel
Section Chief, Pokhara Municipality Office,
Nepal

Proposed Action Plans

Below are some action plans proposed and presented by the participants after conducting the Self-assessment exercise. The plans are based on their current capacity in implementing them:

- **Bandar Seri Begawan to Taipei:** To communicate and exchange technical information to be followed up with an official visit to the city,
- **Kuala Lumpur to Taipei:** 95% of Kuala Lumpur's disposal is done at landfills, so would like to learn more of Taipei's Zero Landfill strategy and policy.
- **Dhaka to Kuching and Kuala Lumpur:** To acquire knowledge on the detailed structure of contract negotiations procedure and privatization policy documentation.
- **Saishand to Tomohon:** To learn strategies in improving the quality of services.
- **Ratnapura to Taipei:** To learn how Taipei educates its population from the beginning, and providing a facility to collect waste into separate bags.
- **Ratnapura to Kuala Lumpur:** To reduce large scale dumping that is prominent and to address the issue of leachate contamination.
- **Sidoarjo to Tomohon:** To formalise the methods for public procedure and encourage public participation to help monitor public service activities.
- **Phnom Penh to Kuala Lumpur:** To find a system to integrate biogas, recyclables and compost with waste reduction and compacting pre-transfer.

All participants attending KLRTC 19 were impressed on how Taipei and Kuala Lumpur has progressed within the past decade and expressed hope of achieving similar standards in their own cities.



Participants taking part in an ice-breaking session on the first day of the training



Participants charted the results of the Self-assessment exercise for their cities

RESOURCE PERSONS AND SPEAKERS

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Note: To avoid automatic search engines for spam, @ was replaced by <at> in all e-mail addresses.

KLRTC Update is published by the CITYNET Secretariat in collaboration with all KLRTC partners. Articles can be reproduced; citing of the source is requested.

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ABOUT KLRTC — Kuala Lumpur Regional Training Centre (KLRTC), is a joint initiative launched in 2003 by CITYNET, UNITAR, KL City Hall, UNDP, and Veolia Environnement that aims to strengthen local governments' capacity to deal with sustainable development. KLRTC is the outcome of our commitment expressed at the WSSD (World Summit on Sustainable Development), in Johannesburg in 2002.

Since its establishment, KLRTC has run nineteen training courses covering a wide area of urban challenges and issues

To be able to take part in the Training was very good as I was able to learn a lot too from my fellow participants, as well as share my city's strategies and practices on biogas and solid waste management.

- **Nuon Samnavuth**
Deputy Chief of Dangkor Landfill Site,
Phnom Penh