

Waste Management Project for Promoting Green Leaders in Tuen Mun District 2010-2011

Organized by Office of Service-Learning, Lingnan University

I. **Aims**

- Train community-based Green leaders;
- Practice green actions through different programs;
- Expose students/elders/district leaders to have a more holistic view toward waste problems;
- Arouse public need of waste management.

II. **Objectives/Outcomes**

- To equip **100** participants (university/Secondary School students and elderly) and **20** community leaders (District leaders/NGOs leaders/School leaders) with knowledge on waste problems at local and international levels
- Students and elderly can be the actors of the program to steer and organize different programs in selected communities
- District/NGOs leaders can act as mentors of the student and elderly in future activities
- Spread the knowledge of Waste management in 6 Tuen Mun Estates and 4 Secondary Schools and reach over **10,000** Citizens

III. **Number of Direct Participants**

A. **100** Green Leaders

- 80 credit bearing University/Secondary School students
- 20 elders

B. **20** Community Leaders (District Council members/ NGOs leaders/ School leaders/etc)

IV. Target Estates and Responsible Groups

Group Combination: **10** Green Leaders (8 university/Secondary School students and 2 elderly) pair up with **2** Community Leaders act as mentors of the group.

Responsible Group	Target Estates	Target no. of Citizen
Group 1	Siu Hong Court 兆康苑	1000
Group 2	Fu Tai Estate 富泰邨	1000
Group 3	Tin King Estate 田景邨	1000
Group 4	Leung King Estate 良景邨	1000
Group 5	Shan King Estate 山景邨	1000
Group 6	Kin Sang Estate 建生邨	1000
Group 7	SMKMCF Ma Ko Pan Memorial College 馬錦明慈善基金馬可賓紀念中學	1000
Group 8	Yan Chai No. 2 Secondary School 仁濟醫院第二中學	1000
Group 9	Yan Oi Tong Tin Ka Ping Secondary School 仁愛堂田家炳中學	1000
Group 10	CCC Tam Lee Lai Fun Memorial Secondary School 中華基督教會譚李麗芬紀念中學	1000

V. Project Contents

Time	Activities
1 st Semester (1-6 months)	<ol style="list-style-type: none"> 1. Kick-off Ceremony cum training workshop/seminar 2. 3 Field Visits 3. 10 Exhibition Tours (6 target estates and 4 Secondary Schools)
2 nd Semester (6 – 12 months)	<ol style="list-style-type: none"> 4. Waste Management Survey (6 target estates and 4 Secondary Schools)→At least 1000 questionnaires regarding the waste management collected from the community 5. Overseas Study Tour 6. Reflection Camp and Closing Ceremony

Details of each activity:

1. Kick-off Ceremony cum training workshop/seminar

Objectives:	<ul style="list-style-type: none"> • Kick-off the project in target estates • Introduce the project to the citizens in target estates
Contents:	<ol style="list-style-type: none"> 1. Launching Ceremony 2. Opening speech by District leader 3. Appointed Green leaders in a pledge to “ learn, share and practice ” about Waste Management 4. Waste Management training workshop/seminar 5. Group Discussion
Number of Direct Participants:	<ol style="list-style-type: none"> A. 100 Green Leaders B. 20 Community Leaders

Number of Indirect Participants:	A. 120 Elders at the four NGOs/ Elder Academies B. 1000 Citizens from target estates
Responsible Units:	A. Office of Service-Learning, Lingnan University B. Green Club, Lingnan University C. Home Affairs Department (Tuen Mun) D. Environmental Protection Department

Training workshop/seminar

Topic 1	Introduction to Waste Management
Objectives:	<ul style="list-style-type: none"> To gain an overview of waste management To understand the waste management system in Hong Kong To reflect on personal “contribution” in waste production and its impact on environment
Contents:	<ol style="list-style-type: none"> Definition of Waste Management Waste Management in the World/ Hong Kong/ Tuen Mun The importance and effects of recycling and waste reduction Modern Technologies for waste facilities (e.g. incineration, land filling) and environmental monitoring Group discussion and reflection
Number of Direct Participants:	A. 100 Green Leaders B. 20 Community Leaders
Number of Indirect Participants:	A. 120 Elders at the four NGOs/ Elder Academies B. 1000 Citizens from target estates <i>Interested citizens are welcome to join</i>
Responsible Units:	A. Office of Service-Learning, Lingnan University B. Home Affairs Department (Tuen Mun) C. Environmental Protection Department

Topic 2	Waste Separation and Waste Reduction
Objectives:	<ul style="list-style-type: none"> To understand the great impact of small action like waste separation To study how to facilitate and encourage public to recycle
Contents:	<ol style="list-style-type: none"> Principles of Good Practice Waste Separation in Daily Life Help design waste separation, and recycling program in community Group discussion and reflection
Number of Direct Participants:	A. 100 Green Leaders B. 20 Community Leaders
Number of Indirect Participants:	A. 120 Elders at the four NGOs/ Elder Academies B. 1000 Citizens from target estates <i>Interested citizens are welcome to join</i>
Responsible Units:	A. Environmental Protection Department B. The Hong Kong Association of Property Management Company (To be confirmed)

2. Field Visits

Objectives:	<ul style="list-style-type: none"> • To obtain a pivot learning experience through the visits • To know the real situation of Waste Management in Hong Kong
Contents:	<ul style="list-style-type: none"> • Presentation by the responsible unit about their waste management services • Learn the waste disposal/recycle process in Hong Kong • Learn and involve in waste collection and waste trade-off system • Group discussion and reflection
Number of Visits:	Visit three waste management facilities/locations per year
Location:	Potential Sites: <ol style="list-style-type: none"> 1. West New Territories (WENT) Landfill 2. Tuen Mun EcoPark 3. Kowloon Bay Recycling Centre (WEEE and computer recycling program) 4. Tuen Mun Youth Association(Waste Collector & Waste trade-off) 5. Chemical inclinator in Tsing Yi 6. Other possible sites
Number of Direct Participants:	<ol style="list-style-type: none"> A. 100 Green Leaders (actors) B. 20 Community Leaders (mentors)
Number of Indirect Participants:	<ol style="list-style-type: none"> A. 120 Elders at the four NGOs/ Elder Academies B. 1000 Citizens from target estates <p><i>Interested citizens are welcome to join</i></p>
Responsible Units:	<ol style="list-style-type: none"> A. Office of Service-Learning, Lingnan University B. Green Club, Lingnan University C. Home Affairs Department (Tuen Mun) D. Environmental Protection Department E. Tuen Mun Youth Association

3. Exhibition Tours

Objectives:	<ul style="list-style-type: none"> • To spread the knowledge of Waste management in target estate. • To arouse public awareness of Waste Management.
Contents:	<ol style="list-style-type: none"> 1. Introduce waste management knowledge to public 2. Mass promotion to household in 6 target estates and 4 secondary schools and conduct a waste management survey. 3. An Exhibition Tour will be held in 6 target estates and 4 Secondary Schools. <i>(please refer to the appendices for the detail workplan and timeline for exhibition tour)</i> 4. Each exhibition will highlight the waste management facilities in individual estates/schools 5. Encourage schools and NGOs to continue to promote and spread the waste management information in their schools/centres/estates after the exhibition <i>(Schools/NGOs can use the exhibition panels for educational purposes after this project)</i>
Number of Direct Participants:	<ol style="list-style-type: none"> A. 100 Green Leaders (actors) B. 20 Community Leaders (mentors) C. 100 Volunteers from Secondary Schools and Elder Academies
Number of Indirect Participants:	A. 10000 Citizens from 6 target estates and 4 Secondary Schools
Responsible Units:	<ol style="list-style-type: none"> A. Office of Service-Learning, Lingnan University B. Green Club, Lingnan University C. Home Affairs Department (Tuen Mun) D. Environmental Protection Department E. Public Estates F. Secondary Schools

4. Waste Management Survey

Objectives:	<p>1. Resident perception survey on Waste Management</p> <ul style="list-style-type: none"> • To examine the awareness of Waste Management among residents in public estates • To find out the level of knowledge of Waste Management among residents in public estates • To study the living style (focus on WM) of public estate residents • To collect the feedback from residents regarding the exhibition and other promotions in the estate • To collect and analyze the data for Waste Management development and promotion in public estate <p>2. Evaluation survey (120 Green leaders)</p> <ul style="list-style-type: none"> • To examine and compare their understanding of waste management after the project. • To find out the effectiveness of this project
Contents:	<p>1. Resident perception survey on Waste Management</p> <ul style="list-style-type: none"> • Face-to-face interview in estates areas • Individual observation in estates areas (e.g. public facilities for WM) • DC members and NGOs leaders act as mentors of the student and elderly during the research • Collect 100 completed questionnaires from each target estate/Secondary School. Altogether, we should receive 1000 questionnaires. <p>2. Evaluation survey (120 Green leaders)</p> <ul style="list-style-type: none"> • Prepare both pre-test and post-test questionnaires to 120 participants. • Collect 240 completed pre-test and post-test questionnaires from 120 participants.
Number of Direct Participants:	<p>A. 100 Green Leaders (actors) B. 20 Community Leaders (mentors)</p>
Number of Indirect Participants:	<p>A. 1000 Citizens from 6 target estates and 4 Secondary Schools</p>
Responsible Units:	<p>A. Office of Service-Learning, Lingnan University B. Green Club, Lingnan University</p>

5. Overseas Study Tour

Location:	Taiwan
Duration:	5 days, 4 nights
Reasons:	<p>In order to solve the solid waste problem, the Taipei government introduced several extensive policies (e.g. 垃圾費隨袋徵收, 廚餘回收, 限塑政策). The policies have led to a significant reduction in the amount of solid waste produced and increased the amount of recycling, such experiences are good reference for Hong Kong Government and citizens.</p> <p>Taipei government also makes use of modern incineration technology (e.g. Bei-tou Incinerator 北投垃圾焚化廠 http://www.ptrip.gov.tw) and land filling for treatment and disposal of its waste. Its comprehensive environmental monitoring system and the betterment facilities e.g. swimming pool, revolving restaurant, viewing gallery, etc. brought to the community by the waste facility should be highlighted.</p> <p>Since Taipei has a relatively similar situation to Hong Kong, our program can benefit from Taipei's experience and educate participants about the importance and effectiveness of recycling and separation and the use of modern incineration technology for waste disposal.</p>
Objectives:	<ol style="list-style-type: none"> 1. To understand the waste management policy in places with similar situations of Hong Kong and how the policy is implemented 2. To immerse in a environment with different waste management practice, and thus be able to compare their usual practice in Hong Kong 3. To let participants reflect on their public roles and influence in waste management 4. To understand the importance and effectiveness of recycling and separation from the source 5. To experience how the community can change for a better cause of the environment and the improvement of environment
Contents: (To be confirmed)	<ol style="list-style-type: none"> 1. Visit the Department of Environmental Protection http://www.tcgdep.taipei.gov.tw/olddep/about_epb/about_epb.htm 2. Visit the local government department responsible for carrying out the policy 3. Visit local families, companies, and restaurants to see how the public engages in waste management from the source 4. Visit Bei-tou Incinerator 北投垃圾焚化廠 to appreciate the application of modern incineration technology for waste treatment and disposal. Visit recycling site and solid waste management (landfill, incinerator, etc.) 5. Engage in abiding by the waste management policy in Taiwan to experience the change in lifestyle 6. Visit universities conducting research in waste management 7. Attend forum with local university to exchange ideas

Follow up Actions:	<p><u>Post-trip</u></p> <ol style="list-style-type: none"> 1. Presentation to share knowledge and experience gained in reflection camp 2. Experimental projects applying experience from waste management practice by public in reflection camp 3. Proposal suggesting what and how the Hong Kong government can learn from Taiwan's policy and experience 4. Publicize the project implementation and proposal of item 9 and 10 to the public
Number of Participants:	<ol style="list-style-type: none"> 1. 20 Green Leaders (students and elders). 2. 5 community leaders (participated District Council members or teachers) 3. 3 tour leaders (Staff)
Selection Criteria:	<p>The participants (i.e. 25 Green Leaders) will be chosen by evaluating the following aspects:</p> <ol style="list-style-type: none"> a. Commitment and contribution to the program; b. Involvement in previous activities; c. Recommendation from program leaders or other relevant parties; d. Interview performance. <p><i>* Participants are required to pay \$1000 for the trip. Students/elders from low income family will be subsidized by the project.</i></p>
Responsible Units:	<ol style="list-style-type: none"> A. Office of Service-Learning, Lingnan University B. Home Affairs Department (Tuen Mun)

6. Reflection Camp & Closing Ceremony

Organizing Committees:	Participants from the Taiwan Trip (Compulsory) Office of Service-Learning (OSL) Asia-Pacific Institute of Ageing Studies (APIAS)
Camp Period:	Day Camp
Objectives:	<ol style="list-style-type: none"> 1. Spread the knowledge gained in the Taiwan Tour 2. Design a program to implement what was learnt in Taiwan Tour 3. Apply the Taiwan experience in Hong Kong context, and introduce the new living style to participants 4. Recognize Green Leaders and Community Leader 5. Recognize the achievement of the project 6. Encourage the public to continue their daily life habits on waste management
Participants:	<ol style="list-style-type: none"> A. 100 Green Leaders B. 20 Community Leaders C. 100 Interested Citizens from 6 target estates and 4 Secondary Schools <p>(At least 80 selected participants will stay in the campus for the reflection camp)</p>
Contents:	<ol style="list-style-type: none"> 1. Presentation introducing the waste management policy and system of Taiwan 2. Workshop comparing the waste management practice of general public between Hong Kong and Taiwan 3. Implement the waste management practice of Taiwan 4. Suggest and practice better strategies for waste management in Hong Kong households 5. Report and review on the Green program 6. Discussion of the TV program on waste management 7. Closing Ceremony <ul style="list-style-type: none"> - Speech by EPD/District leader - Award presentation to green leaders as recognition - Sharing by the outstanding green leader

VII. Appendices

Exhibition Tour

Time	Location	Materials
	Exhibition in target schools:	
Oct – Dec,2010	1. SMK MCF Ma Ko Pan Memorial College	School exhibition panel set x 2 (one month per school)
	2. Yan Chai No. 2 Secondary School	
	3. Yan Oi Tong Tin Ka Ping Secondary School	
	4. CCC Tam Lee Lai Fun Memorial Secondary School	
	Exhibition in target estates:	
Jan – Apr,2011	1. Siu Hong Court	Estate exhibition panel set x 2 (one month per estate)
	2. Fu Tai Estate	
	3. Tin King Estate	
	4. Leung King Estate	
	5. Shan King Estate	
	6. Kin Sang Estate	

Supporting Units

NGOs

Group 1:	NAAC, Fu Tai Neighbourhood Elderly Centre 鄰舍輔導會富泰鄰里康齡中心
Group 2:	NAAC, Fu Tai Neighbourhood Elderly Centre 鄰舍輔導會富泰鄰里康齡中心
Group 3:	NAAC Tuen Mun District Integrated Services Centre for the Elderly Integrated Home Care Service 鄰舍輔導會屯門區綜合康齡服務中心綜合家居照顧服務
Group 4:	循理會屯門青少年綜合服務中心
Group 5:	ELCHK Tuen Mun Enhanced Home and Community Care Services 基督教香港信義會社會服務部總處-屯門改善家居及社區照顧服務
Group 6:	HKFYG Jockey Club Kin Sang Youth S.P.O.T. 賽馬會建生青年空間
Group 7:	NAAC, NAAC Tuen Mun District Integrated Services Centre 鄰舍輔導會屯門區綜合康齡服務中心
Group 8:	NAAC Tuen Mun District Integrated Services Centre for the Elderly Integrated Home Care Service 鄰舍輔導會屯門區綜合康齡服務中心綜合家居照顧服務
Group 9:	ELCHK Tuen Mun Enhanced Home and Community Care Services 基督教香港信義會社會服務部總處-屯門改善家居及社區照顧服務
Group 10:	NAAC, Fu Tai Neighbourhood Elderly Centre 鄰舍輔導會富泰鄰里康齡中心

Housing Estates & Secondary Schools

Responsible Group	Target Estates/ Secondary School
Group 1	Siu Hong Court 兆康苑
Group 2	Fu Tai Estate 富泰邨

Group 3	Tin King Estate 田景邨
Group 4	Leung King Estate 良景邨
Group 5	Shan King Estate 山景邨
Group 6	Kin Sang Estate 建生邨
Group 7	SMKMCF Ma Ko Pan Memorial College – <i>Elder Academy at SMKMCF Ma Ko Pan Memorial College</i> 馬錦明慈善基金馬可賓紀念中學 - 思賢長者學苑 (建生邨)
Group 8	Yan Chai No. 2 Secondary School - <i>Tuen Mun Elder Academy</i> 仁濟醫院第二中學 - 屯門長者學苑 (良景邨&田景邨)
Group 9	Yan Oi Tong Tin Ka Ping Secondary School - <i>Yan Shun Elder Academy</i> 仁愛堂田家炳中學 - 仁信長者學苑 (山景邨)
Group 10	CCC Tam Lee Lai Fun Memorial Secondary School - <i>Tam Lee Lai Fun Elder Academy</i> 中華基督教會譚李麗芬紀念中學 - 譚李麗芬長者學苑 (富泰邨 & 兆康苑)