

<b>Title</b>	<b>Community related recycling initiative for solid waste management</b>				
<b>Category</b>	Solid Waste Management				
<b>Strategy</b>	Community based solid waste management- community participation, recycling, motivation				
<b>Country/City</b>	Thailand/Nonthaburi	<b>Population</b>	273,172 (2003)	<b>Budget</b>	ESCAP/UN: 5,000 USD,
<b>Duration</b>	2001-2002	<b>GDP [USD]</b>	No data		Nonthaburi Municipality: 50,000USD
<b>Main stakeholders</b>	Nonthaburi Municipality Communities (Phibulsongkram and Suan Klang Muang 3 villages)				
<b>Background</b>	<p>Waste generation in Nonthaburi Municipality has reached an alarming stage. Producing 300 tons of solid waste per day, this amount has sharply increased due to the growing population as well as higher living standards, which pose threats to the urban environment. In addition, the capacity of the sanitary landfill is almost exhausted and new dumpsites are difficult to establish due to the comprehensive legislation and the lack financial support.</p> <p>In order to address these challenges, the municipality started to impose user charges on households as well on vegetable and fruit markets. Another measure that the municipality considered was to promote recycling by waste separation at source in order to reduce the quantity of solid waste generation.</p>				
<b>Objectives</b>	Realization of recycling (by 20%) and waste generation (by 30%), community participation				
<b>Actions taken/ Strategies for implementation</b>	<p><b>1: Team-making and survey household population and the amount of daily solid waste</b> 10 teams were established to survey the household pop. (1280 in total) in the villages and amount of daily solid waste</p> <p><b>2: Awareness for community participation/campaign</b> Cooperation and suggestions from the communities were encouraged through meetings, providing garbage collecting trucks as well as recycling trucks, distributing information, and plastic bags and recycling bins.</p> <p><b>3: Awareness for waste management through recycling</b> Brochures which inform how to reduce solid waste to every household were repeatedly distributed and public comment board was set up in each village.</p> <p><b>4: Waste disposal and collection</b> The municipality provided a garbage truck twice a week and recycling truck once a week. The amount of garbage and recyclable materials were weighted every time.</p> <p><b>5: Developing motivation through incentives</b> The municipality established a sorting and selling center, where the recyclable materials (e.g. papers, plastic, cans) can be sorted and sold to buyers. The earnings are equally distributed to the municipal workers and communities. The communities use it for the development activities on the streets.</p>				

<b>Outputs and impacts</b>	<p><u>The amount of the garbage</u> (Nov.01-Jun.02) was reduced;</p> <p>Phibulsongkram: 1008 → 680 (kg/day)                      Suan Klang Muang 3: 214 → 151 (kg/day)</p> <p><u>Recycling rate</u> (Nov. 01- Jun. 02) was increased;</p> <p>Phibulsongkram: 5.4 → 20.34 (%)                      Suan Klang Muang 3: 5.21 → 24 (%)</p>
<b>Lessons learned</b>	<p>Strong political in local governments is required. Building public awareness is crucial for community-based initiatives. And the sustainable partnership between government and community can achieve the project goals.</p>
<b>Links to updated info</b>	<p>(1) 3RKH (3R Knowledge Hub). <i>Solid Waste Management at Nonthaburi Municipality</i>  <a href="http://www.3rkh.net/3rkh/files/04%20SOLID%20WASTE%20MANAGEMENT%20AT%20NONTABURI%20MUNICIPALITY.pdf">http://www.3rkh.net/3rkh/files/04%20SOLID%20WASTE%20MANAGEMENT%20AT%20NONTABURI%20MUNICIPALITY.pdf</a></p> <p>(2) Nonthaburi Municipality, Thailand – Ki Pilot Project and Subsequent Replication: Community-based Solid Waste Management <a href="http://kitakyushu.iges.or.jp/docs/network_meetings/kin4/ppt/15.Kictham.pdf">http://kitakyushu.iges.or.jp/docs/network_meetings/kin4/ppt/15.Kictham.pdf</a></p>
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