

Assessing the Benefits of Super Depo Sutorejo as a Model of integration of Waste Pickers in a Sustainable City Waste Management

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Abstract : Surabaya, the second largest city in Indonesia, has been struggling for years with waste production and its management. Nearly 11,000 tons of waste are generated daily by domestic, commercial and industrial areas. It is predicted that approximately 1,300 tons of waste overflow the Benowo Landfill daily in 2013 and projected that the landfill operation will be critical in 2015. The Super Depo Sutorejo (SDS) is a pilot project on waste management launched by the government of Surabaya in March 2013. The project is aimed to reduce the amount of waste dumped in landfill by sorting the recyclable and organic waste for composting by employing waste pickers to sort the waste before transported to landfill. This study is intended to assess the capacity of SDS to process and reduce waste and its complementary benefits. It also overviews the benefits of the project to the waste pickers in term of satisfaction to the job. Waste processing data-sheets were used to assess the difference between input and outputs waste. A survey was distributed to 30 waste pickers and interviews were conducted as a further insight on a particular issue. The analysis showed that SDS enable to reduce waste up to 50% before dumped in the final disposal area. The cost-benefits analysis using cost differential calculation revealed the economic benefit is considerable low, but composting may substitute tangible benefits for maintain the city's parks. Waste pickers are mostly satisfied with their job (i.e. Salary, health coverage, job security), services and facilities available in SDS and enjoyed rewarding social life within the project. It is concluded that SDS is an effective and efficient model for sustainable waste management and reliable to be developed in developing countries. It is a strategic approach to empower and open up working opportunity for the poor urban community and prolong the operation of landfills.

Keywords : cost-benefits, integration, satisfaction, waste management

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