

PROJECT FACTS



Tsunami Recovery Waste Management Programme (TRWMP)

• Total budget	: USD 52,460,592
- Phase I	: USD 14,431,105
- Phase II	: USD 10,571,591
- Phase III(a)	: USD 14,993,512 (under discussion)
• Available budget	: USD 39,996,208
• Unfunded budget	: USD 12,464,384 (Phase III(b))
• Project period	: December 2005 – September 2007 (Phase I) : September 2007 – December 2009 (Phase II) : January 2009 – December 2010 (Phase III)
• Donors	: Multi-Donor Fund for Aceh and Nias (MDF), French Red Cross (FRC)
• Location	: Aceh and Nias

Background

In January 2005, UNDP's Tsunami Recovery Waste Management Programme (TRWMP) was conceived to provide a coordinated, pragmatic response to the public health and environmental concerns associated with tsunami/earthquake debris and municipal solid waste management following the 2004 earthquake and tsunami.

TRWMP was implemented in Aceh through UNDP's Emergency Response and Transitional Recovery (ERTR) Programme, in partnership with the Rehabilitation and Reconstruction Agency (Badan Rehabilitasi dan Rekonstruksi - BRR). It is currently being executed through partnership with local government sanitation departments in thirteen districts: Kota Banda Aceh (KBA); Aceh Barat; Nagan Raya; Pidie; Aceh Jaya; Aceh Besar; Nias; Nias Selatan; Lhokseumawe; Aceh Utara; Bireuen; Sabang; and Simeulue.

Objectives

TRWMP's initial aims included debris clearance, restarting essential solid waste management services, creating immediate temporary employment, and recovery of recyclable materials for use in reconstruction. These aims have been completed and are now superseded by the longer-term goals:

- strengthening the capacity of local government to conduct effective and efficient collection, recovery and disposal of municipal and tsunami waste
- rehabilitation of critical waste management infrastructure
- supporting local enterprises in the creation of livelihoods opportunities in recovery, processing and recycling of waste, and clearance and rehabilitation of tsunami- impacted agricultural land.



Plastic Recycling programme in Banda Aceh

Key Results

Recovery/Collection and Processing of Tsunami/Municipal Solid Waste

A support and capacity-building programme to 13 district government sanitation departments is in operation. This includes interim financial support for the operation of waste collection and disposal systems, rehabilitation/construction of interim landfills, capacity building to district government staff through training, financial support, on-site counterpart staffing support and public-awareness programmes.

TRWMP rented heavy equipment and hired some 400,000 person days of temporary labour to carry out essential clean-up and construction work. This included:

- Clearance of more than one million cubic metres of tsunami waste in urban areas, together with the recovery of recyclable

Donors:





Provision of heavy equipment for waste disposal

materials used to rehabilitate 100km of roads. This was utilized to produce 10,000 units of wooden furniture.

- Clearance of some 900 ha of tsunami-impacted agricultural land, which is now productive and benefited 1,400 households.
- Demolition of 550 earthquake/ tsunami-damaged buildings.
- Support for street and drainage clearance.
- Provision of temporary waste collection vehicles until permanent replacement vehicles were provided by UNDP's partners.

UNDP continues to support the agricultural land clearance project (target 3,000 ha) and to provide day-to-day technical support to 13 districts for waste collection activities. It also develops sustainable integrated district waste management strategies with the local Dinas.

Restoration and Creation of Livelihoods in Waste Management

The Waste Management Livelihoods project commenced in May 2007 to create and/or strengthen private sector Small and Medium-Sized Enterprises (SMEs) in waste-related businesses. This includes collection and processing of recyclable waste, which creates income and reduces waste going into landfills.

The Waste Management Livelihood projects now supports 10 NGOs, 12 CBOs and 120 SMEs in a wide range of activities including composting, mushroom production, collection, sorting

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and transport of recyclables including plastics, metal, glass and paper, processing of recyclable material and organic detergents, and small scale bio-gas from waste production. As of August 2008, there were 1,829 direct (entire livelihood) beneficiaries, and 6,664 indirect (partial income) beneficiaries. In addition to the distribution of working equipment, small grants are also being distributed, now totaling IDR 1.3 billion.



Learning about recycling and composting in Aceh

Preparation, Design and Construction of Permanent Regional & District Landfills

TRWMP has supported the feasibility studies, design and construction of district landfills in all 13 programme districts. Major progress includes:

- Construction/ rehabilitation of 10 district interim landfills. They provide safe, controlled waste disposal sites for eight TRWMP districts with storage capacity of up to five years.
- Design, environmental and social studies by TRWMP, and ongoing construction by BRR, of the Gampong Jawa Landfill extension in Banda Aceh, and its new mechanical workshop.
- Site selection, Environmental Impact Assessment, land acquisition and ongoing Detailed Engineering Design for the Blang Bintang regional landfill for Banda Aceh/Aceh Besar.
- Ongoing feasibility studies, site searches and design of sustainable, permanent waste disposal facilities for 11 districts, to be constructed by the end of 2009.