MAIN WASTE BANK

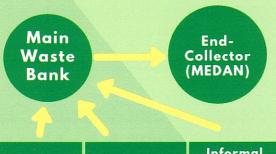
To market the inorganic wastes that are saleable, especially the plastics waste such as PET-bottles and PP-glasses, a waste bank has developed that will managed independently by the community, under the name:

BANK SAMPAH INDUK - IAS TOBA indah - Asri - Serasi

Under the auspices of the Tobasa Regency Government, which as an effective program in the effort to reduce waste systematically. This Main Waste Bank functions are to:

- Receive valuable wastes from the surrounding community
- Receive valuable wastes from other sources such as from the informal sectors, from the Lake Toba recreation area in Balige City, or from waste collection crews, especially PET-bottles and PPglasses.
- Develop the member waste banks, especially in Balige Sub-Regency.
- Receive deposits for sales of plastic waste, especially the PET- bottles and the PP-glasses from the member waste banks.

By utilizing the available processing equipments at the Balige Recycling facility, the saleable wastes, especially PET-bottles and PP-glasses, is processed so that the selling price will be better, and can be marketed directly to buyers who need it (recyclers).



Community

Waste Bank Members Informal sectors waste truck crews

Several parties have contributed to the development of this waste bank, especially the Danone-Indonesia

TUNTAS (complete): almost all waste is handled in one place:

- in one place:

 * unsaleable plastics;
- sauce plastics wrap and the like, instant noodle
 - multi-laver wrap;
 - · diapers and the like;
- rejects are stored in mini landfill.

EFEKTIF (effective): be a useful product:

- saleable wastes are marketed;
- bioprocess technology for biodegradable waste;
- un-saleabale combustible wastes are converted into energy (solar-diesel, charcoal, syngas)
- specific waste that so far has no solution in Indonesia (diapers and the like) can be treated

TESAsystem

the real integration the real zero waste

SEHAT (healthy): work safety, and local pollution are minimized

AMAN (safe):

building design, on-site infrastructure, process equipment used are safe for the environment:

- using NON-COMBUSTION technology (no dioxin);
- BTEX-aromatic are converted into CO2 by flaring:
- specific wastes that are not treated in Indonesia (diapers and the like): are processed;
- rejects not thrown anywhere;
- infiltration wells as the reservoir for runoff.

FACILITY
Daur-Ulang
(recycling)
BALIGE

Jalan Somba Debata Kelurahan Balige III Kecamatan Balige Kabupaten Toba Samosir











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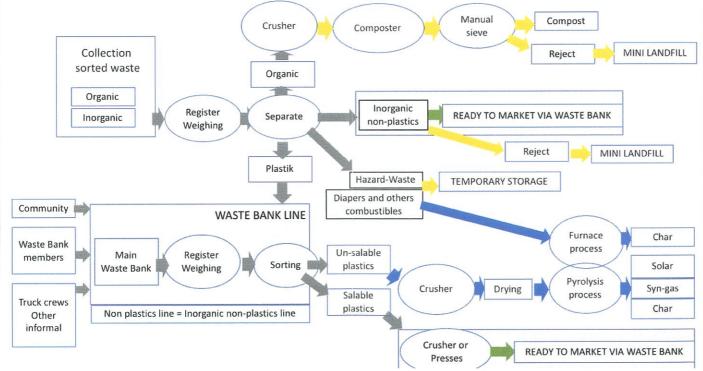
THE FACILITY

The Balige recycling pilot was built from a grant from the Japan Global Environment Strategy Institute (IGES) which has a collaboration center with UNEP, the Center for Cooperation in Environmental Technology (CCET). IGES/CCET study center was established with the aim of assisting local, regional and national governments in developing waste management systems that are able to reduce negative impacts on health and the environment, and seek a transition to more efficient and sustainable resources. Coordinating with the Ministry of Environment and Forestry (KLHK), the pilot is located in Toba Samosir Regency, North Sumatera Province, Indonesia. The realization of the development of this recycling facility was in collaboration with the Solid and Hazardous Waste Laboratory, Institut Teknologi Bandung (ITB).

The Balige Recycling Facility is under the management of the Tobasa Regency Environmental Agency, which aims to:

- Provide waste collection services around the area with a maximum capacity of 1.5 tons/day.
- Treat the incoming organic waste by composting the waste using hollow brick systems.
- Separate the inorganic valuable waste, especially plastics waste.
- Treat the unsaleable plastics waste into diesel fuel like.
- Temporarily store the hazardous waste in collected waste container such as batteries, fluorescent lamps, anti-mosquito cans, until special facilities for handling this specific waste are available in this area.

Waste Management Scheme



WASTE PROCESSING FACILITIES the waste processing in this facility uses the Tuntas (completed) - Efektif (effective) - Sehat (healthy) Aman (safe) approach: motorbike Waste press Syn-gas Pyrolisis furPIRO-ED140