

Ministerio de Ambiente y Desarrollo Sostenible

República de Colombia

Delegate Update: Colombia

GMI Municipal Solid Waste Subcommittee Meeting

Regulatory Background (I)

- 2003 A two year period was established for regional authorities to close any dumps or inadequate waste disposal sites.
- Today: most of the final disposal has shifted towards the use of landfills.

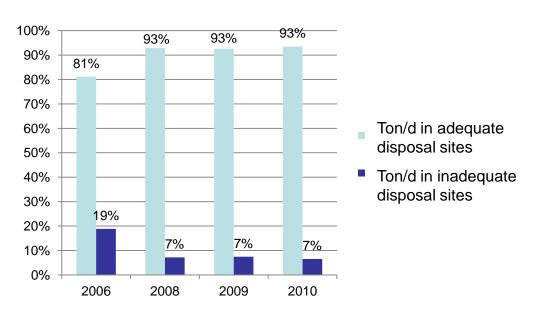


Figure 1. Final disposal in Colombia 2006 - 2010.

Source: Colombian Ministry of Housing, City and Territory.

Regulatory Background (II)

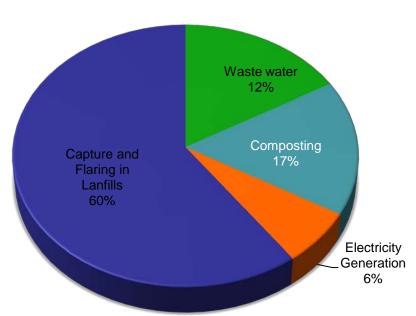
- Although great progress has been done the reality is not ideal...
- 78% of towns have implemented their waste Management plan.
- Went from 81% of adequate disposal (2006) to 93% (2010)
- Experts suggest that only 50% of the landfills are operating in technically suitable conditions.

Type of disposal	Daily tons		 Percentage
	2010	2011	2011
Landfill	21600	24600	92.87%
Provisional cells	1000	290	1.09%
Dumps	1400	1300	4.91%
Plant integrated	330	190	0.72%
Bury	180	80	0.30%
Water bodies	21	20	0.08%
Fires	9	9	0.03%
Total	24540	26489	100%



CDM Projects Colombian waste sector

- Several projects of capture and flaring of biogas have been implemented in landfills through CDM projects.
- **12** Colombian projects form all sectors have Issued CERs (**4** projects from the waste sector).
- Waste sector represents 17% of the Colombian CDM portfolio.
- Potential annual reductions of almost 3.000.000 tonCO2e
- Low percentage of waste-derived electricity generation projects.





Colombian Biogas Model

- Colombian Biogas Model was presented on December 2011.
- Data base of different landfills was obtained.
- The model was calibrated with collected data and parameters can be chosen according to existing regions and climates within the country.
- The model is being used to calculate landfill emissions within the Colombian Low Carbon Development Strategy to construct the abatement cost curves for the priorization of mitigation actions.





Methane Action Plan

Not developed yet due to financing issues during 2012.

Waste Sector NAMAs

- Financing and technical support from Environment Canada and the Center for Clean Air Policy (CCAP) for development of:
 - 1. Integrated Municipal Solid Waste Management NAMA (includes organic waste separation, recycling and tariff incentives study).
 - 2. Construction and Demolition Waste C&D (divert construction waste away from landfills through reuse, recycling and/or waste-to-energy processes).

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