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CHALLENGES TO LANDFILL BIOGAS PROJECTS IN MEXICO

Cesar Rafael CHAVEZ

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M2M PURPOSE

Promoting projects that capture and profit biogas in order to reduce effects of GHG

M2M INITIATIVE IN MEXICO

SEMARNAT, in charge of co-ordinating sub-committees tasks and activities. EPA supports M2M through technical assistance and demonstrative projects in order to promote the initiative and create a multiplying effect in interested sectors

LANDFILL SUB-COMMITTEE WORKING PLAN INCLUDES:

- ✓ Supporting the making of landfill country assessment
- ✓ Identifying barriers (institutional, legal, economic) to power generation projects.
- ✓ Identifying alternative uses for biogas schemes
- ✓ Making of an international fund guide for biogas projects, including alternatives on commercialising carbon bonds
- ✓ Developing landfill pre-feasibility studies





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Barriers to power generation projects

Information sought in order to provide specific support to power generation (e.g., SIMEPRODESO en Monterrey) and biogas burning schemes (e. g. Aguascalientes y León)

International funds guide

A specific analysis included in CC programme.

Feasibility studies

- ✓ SEMARNAT - EPA general format developed; technical and economic assessment included; monitoring and modelling
- ✓ Identification of landfills for pilot schemes (features and potential)
- ✓ Legal paperwork design

Pre-feasibility studies available for Nogales and Saltillo

Both in planning phase for biogas capture and use project implementation

Next sites to be included in prefeasibility phase: Cuautla and Yecapixtla, Morelos





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M2M Mexico guidelines

- 1.- To promote closure of open dump land sites including the facilities for combustion or use of biogas
- 2.- To promote 8 potential projects in final disposal sites
- 3.- To develop a new capture and use model for biogas in Mexico (Monterrey, León, Aguascalientes y Ciudad Juárez)
- 4.- To make and update the project list according to interest, market niches and national and regional priorities
- 5.- Some cities analysed are
 - a) NOGALES
 - b) SALTILLO
 - c) HERMOSILLO
 - d) CUAUTLA
 - e) NUEVO LAREDO
 - f) YACAPIXTLA
 - g) ATIZAPAN DE ZARAGOZA
 - h) ENSENADA





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CDM Projects

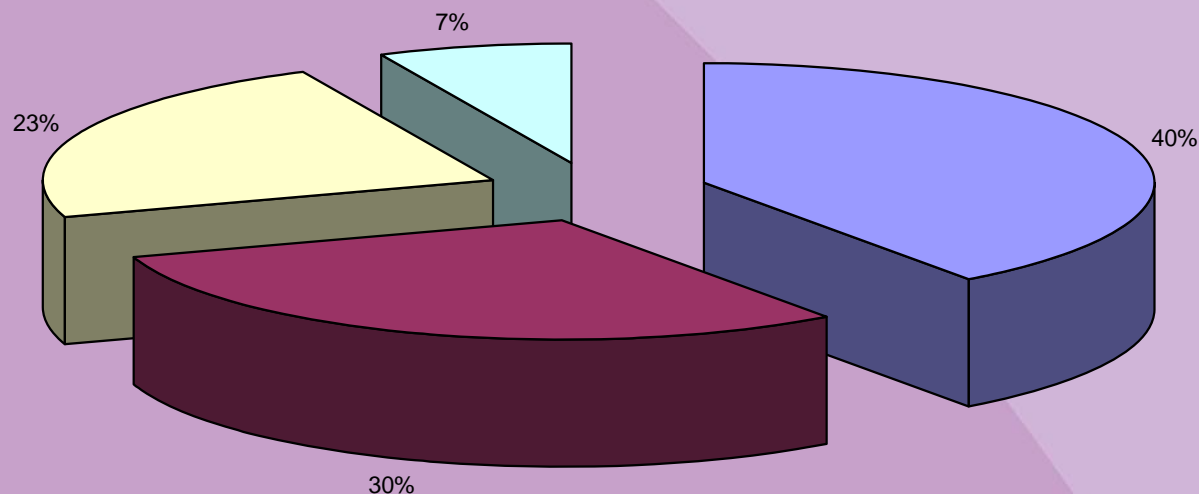
Methane projects in draft: **40%**

Methane registered projects: **23%**

New methane projects: **7%**

Methane projects being assessed: **30%**

PROYECTOS MDL





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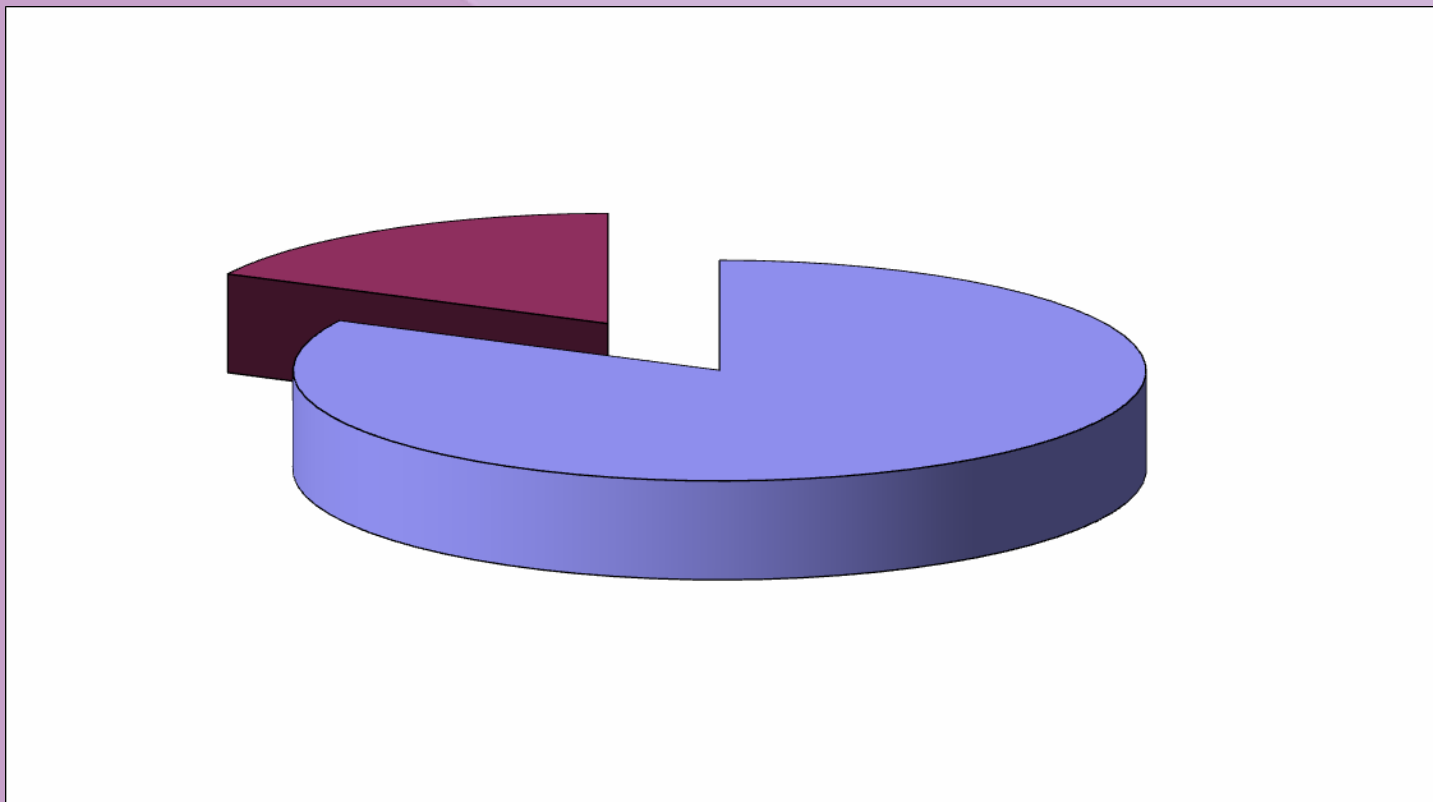


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Potential market

CDM projects: **30**

CDM potential projects: **141**





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Some constraints to M2M projects

1. Insufficient enforcement to comply with regulations
2. Land tenure conflicts
3. Energy law prevents private selling of electricity
4. Insufficient knowledges of local authorities on Carbon Markets
5. M2M experience in Mexico has focused only in Prefeasibility and feasibility studies and supporting bidding process





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Some opportunities to M2M projects

1. 87% of viable landfills still not covered
2. A new Waste National Programme with new policies which promotes openness to the markets and stringent measures for GHG control
3. A new Climate Change National Programme with specific issues regarding methane from landfills and agriculture facilities
4. Prefeasibility studies financed by BANCOMEXT and BANOBRAS
5. National programmatic framework for landfills in process by Bancomext
6. Increased interest of local authorities





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