



Methane to Markets

Ecuadorian Projects Development

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A Partnership is Formed

- Ecuador joined Methane to Markets *November 2005*
- Ministerio de Ambiente, Ecuador (MAE) formed a partnership with U.S. EPA's Landfill Methane Outreach Program (LMOP) *June 2006*
- LMOP and MAE launched activities under the partnership *August 2006*



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LANDFILLS

Activities we have done

With the support of USEPA

- Development of Ecuadorian landfill biogas model, based on particularities of waste composition and environmental conditions in Ecuador.
- Conducted two training workshops to introduce the using of the new model, which were addressed to people involved with solid waste management in municipalities



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Activities we have done

- Two pre-feasibility studies with pump test:
 - *Las Iguanas in Guayaquil (7,061m³/hr of biogas at 50% CH₄; 560,513 CO₂ -eq Tons /yr average)*
 - *Pichacay in Cuenca (504 m³ /hr of biogas at 50% CH₄; 75,187 CO₂ - eq Tons /yr average)*
- Two assessment reports of Landfill Gas Project opportunities:
 - *Chabay in Azogues (30 m³/hr of biogas at 50% CH₄; 3,692 CO₂ - eq Tons /yr)*
 - *Loja in Loja city (127 m³/hr of biogas at 50% CH₄; 14,643 - eq Tons /yr average)*



Activities we are doing

- Conducting a survey in order to obtain preliminary information to know the possibility to develop new projects. This will be finished at the end of this year with EPA assistance.
- Giving technical support to previous projects for the starting of CDM process.



Activities we are planning

- Full implementation of the previous four projects.
- Look for new opportunities to develop pre-feasibility studies in other landfills all over Ecuadorian territory.





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OIL & GAS

Activities we have done

- Conducted a workshop organized by PETROECUADOR with the GGFR (global gas flaring reduction) association, initiative addressed to the oil sector.
- Additionally a M2M mission was visiting all the oil facilities and had meetings with private oil companies in order to introduce the M2M opportunities.



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Activities we are doing

- Looking for establishing synergies among oil & gas association whose Ecuador is member.
- Developing feasibility studies for gas flaring reduction in three PETROECUADOR's oil productions fields.



Activities we are planning

- Create a greenhouse gases emission inventory in the Ecuadorian oil sector.



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AGRICULTURE

Activities we have done

- Registered three PDDs of manure waste management projects under the CDM Executive Board.



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Activities we are doing

- Validation of a project related with the burning of biogas generated by an anaerobic oxidation process to treat agriculture rejects.



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Activities we are planning

- Development of the PIN of a couple of projects related to the use of rice husk, as an alternative fuel for energies production.



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THANK YOU

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