



Methane to Markets

M2M - Mexico

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Climate Change and Mexico's Efforts

- **Main environmental challenge for the 21st Century.**
- **Mayor treat for global development and human wellbeing.**
- **Mexico particularly vulnerable to the effects of climate change.**
- **Mexico has joined most international efforts to face climate change.**
- **Mexico's policy to face Climate Change:**
 - **National Development Plan**
 - **National Strategy for Climate Change**
 - **Special Programme for Climate Change**
- **Mexico is willing to:**
 - **Reduce emissions in 50% by 2050 with respect to 2000, depending on:**
 - **Financing and Technical Assistance**



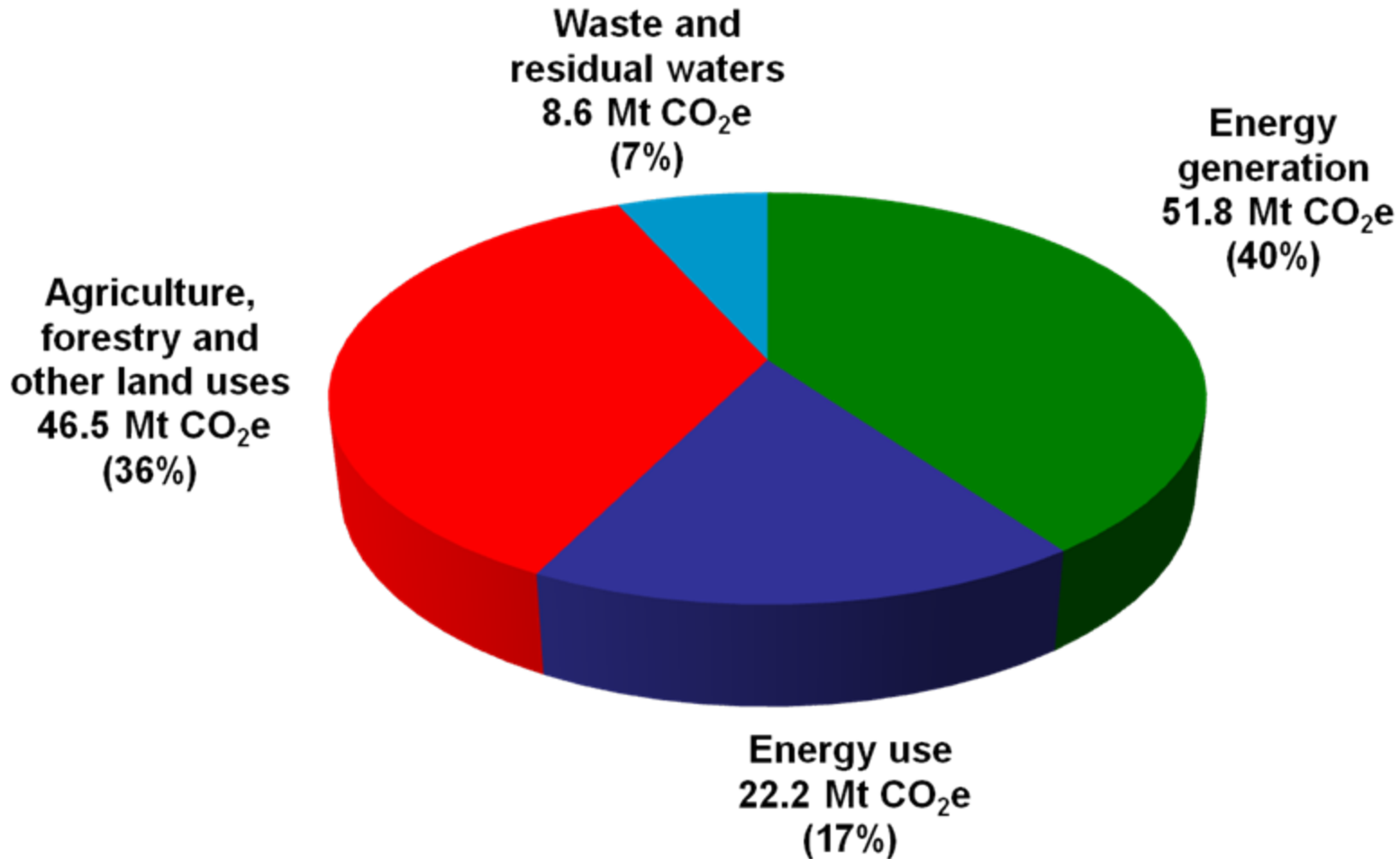
Special Programme for Climate Change (PECC)

PECC published on August 28th, 2009.

- **Long term vision (mitigation and adaptation)**
 - **Address to modify social behaviour and a long term policy according to international efforts.**
- **Mitigation**
 - **Actions to build inventories on energy generation; energy use; agriculture and forestry; waste management; and industry.**
- **Adaptation policies**
 - **Systems approach: human and natural systems; and risk analysis**
- **Trans-sectoral policies to support mitigation and adaptation**
 - **Foreign policy; capacity building; economics of climate change; education and training; information and communication; and research and technological development.**

PECC's Mitigation Goals 2008 - 2012

Accumulated reductions by 2012: 129 MtCO₂e



Mexico's Methane Potential

■ Coal mining:

- 56.1 million cubic meters of methane per year (7 years projects)
- 392.7 million cubic meters of methane total
- 606,630 Tons CO₂e per year for the life of the project (7 years)
- 4'246,411 Tons CO₂e total



■ Oil & Gas:

- Emission of approx. 64.0 million Tons CO₂e by 2010
- 111.4 million Tons CO₂e by 2020
- 34,930 Ton CO₂e/year, over the next 3 years in estimated emission reductions from the implementation of a series of projects in PEMEX.



Mexico's Methane Potential

■ Agricultural:

- Swine Production: Biogas production is nearly 4,100 million of m³/year.
- Dairy Production: Biogas production is over 264.5 million of m³/year.
- Swine Production: Reduction potential is 36.6 million Ton CO₂e/year.
- Dairy Production: Reduction potential is 2.4 million Ton CO₂e/year

- 143 methane recovery and use projects in swine and dairy farms participating in the CDM Programme,
- Reduction potential of 3,490 million ton CO₂e/year.



Mexico's Methane Potential

■ Landfill:

- At least 85 potential sites for biogas recovery and use
- Potential of 31 million Tons CO₂e.
- 5 prefeasibility studies
- Total emission reduction potential of these projects is 281,000 Tons CO₂e/year

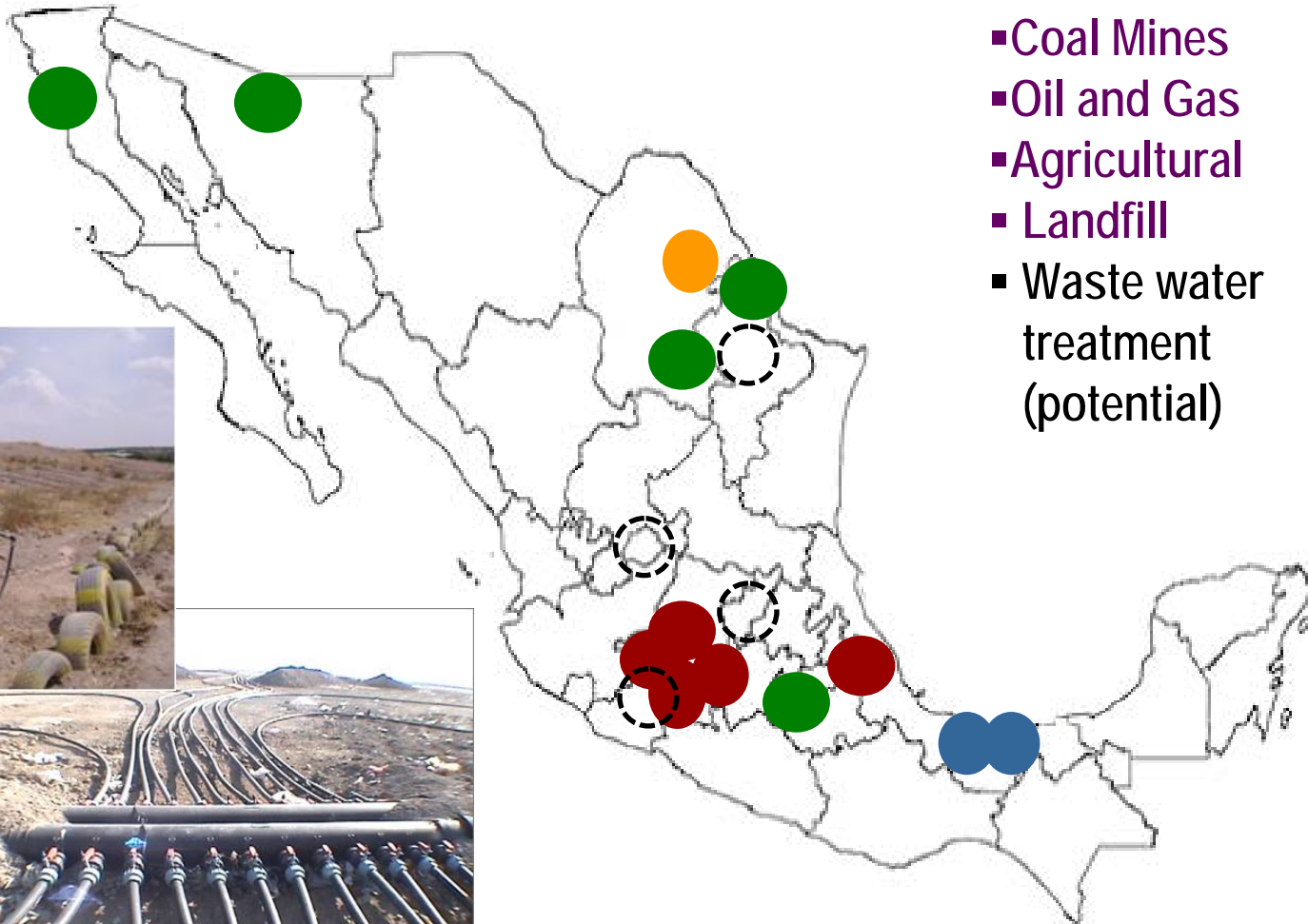
■ Waste Water Treatment:

- Currently 35 % of waste water is treated
- 2 cities treat 100% of their residual waters
- At least 40 potential waste water treatment plants for methane recovery and use.
- 60 % of water treated for 2012 (national goal)
- Morelia, Aguascalientes, Queretaro and Monterrey, among possible projects with high potential.



M2M Current Projects in Mexico

- Mexico, member country since 2005



The Future of the M2M Initiative ...

- Consolidated international network addressed to:
 - Support local capacity building addressed to local governments, potential investors, industrial enterprises, farmers, mining industry and developers.
 - Develop a set of best practices and implementation guidelines for project development and implementation.
 - Develop schemes to replicate pilot projects developed under the M2M Initiative at national, regional or international level.
 - Promote recovery and use of methane as source of clean and cheap energy for local production.
 - Reach the interest of national and international financiers and developers.



The Future of the M2M Initiative



- **Promote the implementation of a larger number of projects in the different areas of the Initiative.**
- **Integrate new areas to the Initiative, such as water treatment.**
- **Facilitate financing for pilot projects in new areas feasible for the widening of the initiative.**
- **Promote broader carbon markets.**
- **Promote the participation of projects in regional and international carbon markets.**
- **An International network that supports worldwide policies and efforts to reduce GHG emissions, to use methane as a clean source of energy and face climate change.**



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