

Methane to Markets

Global Methane Initiative

COP16 - Mexico

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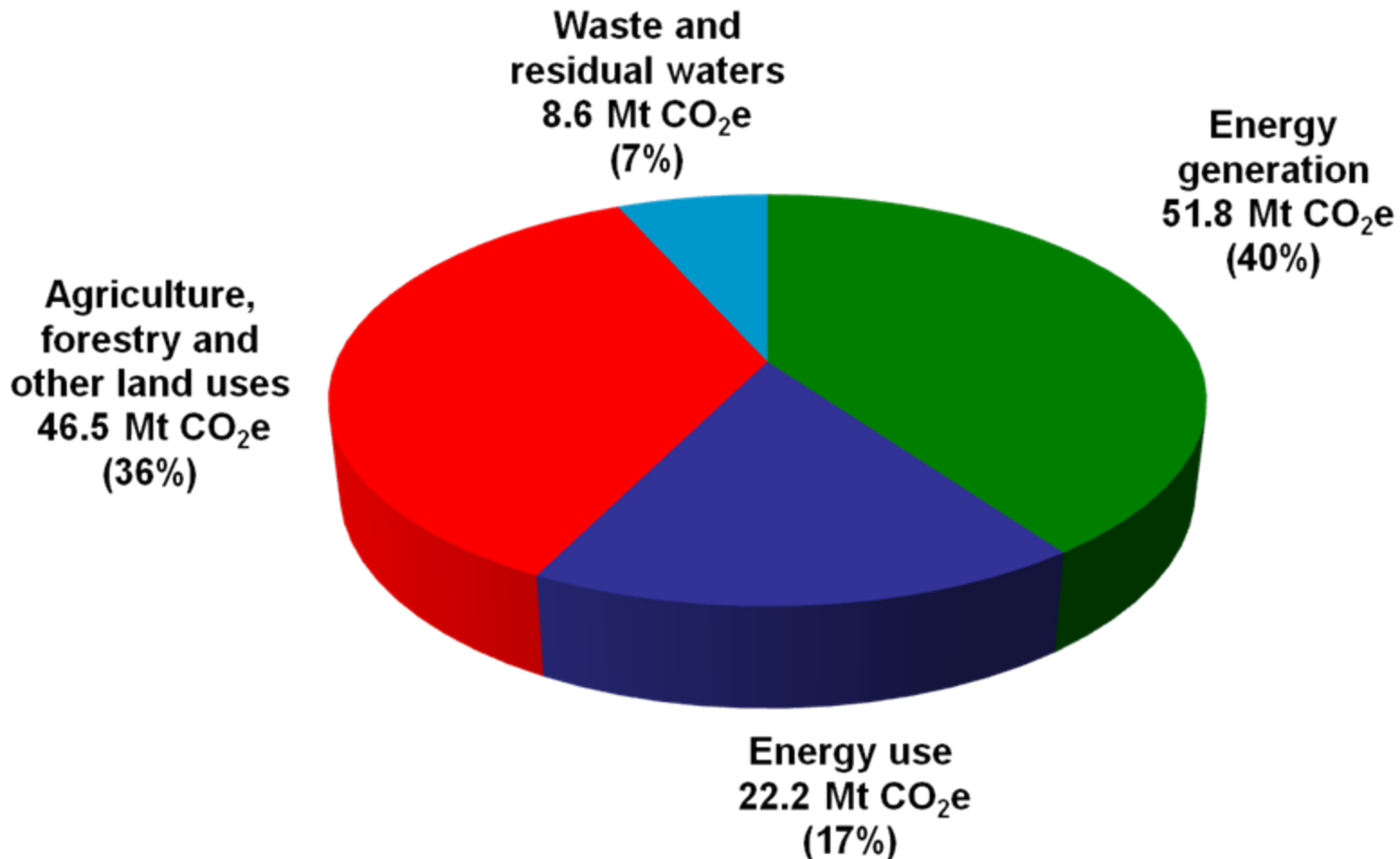
Special Programme for Climate Change (PECC)

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 1,264,183 Tons CO₂e/year and 8 MW of maximum potential of energetic generation

▪ Waste Water Treatment:

- In 2006, 35% of waste water was treated
- 1,593 WWTP in Operation with 74,388 L/s
- 2 cities treat 100% of their residual waters
- At least there are 40 potential WWTP for methane recovery and use.

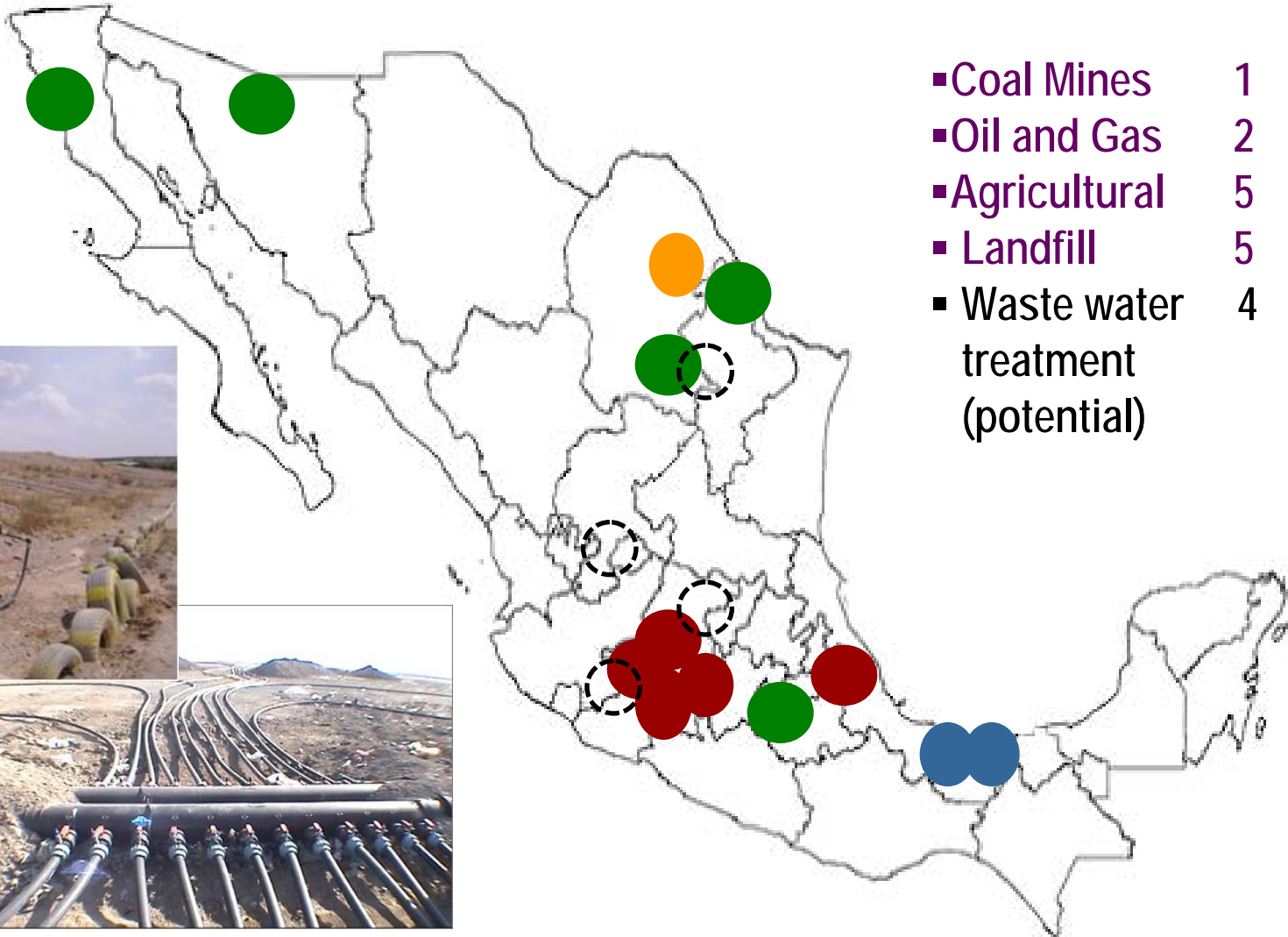
- In 2010, 45.8% of waste water was treated
- 2,029 WWTP in Operation with 88,127 L/s
- From January to June 2010, 3 WWTP enter in operation with 1,050 L/s (BCS, Jalisco and Queretaro)

- 60% of water treated for 2012 (national goal)
- Morelia, Aguascalientes, Queretaro and Monterrey are possible projects with high potential.



M2M / GMI Current Projects in Mexico

- Mexico, member country since 2005



Mexican Policy's for Clean Energy

- **With the objective of Regulate and promote the participation of the private sector in the Renewables and Clean Energy generation and use:**
 - **In November 2008, was published the Renewable Energy Develop and Energetic Transition Law.**
 - **And in September 2009, the Renewable Energy Develop and Energetic Transition Regulation.**
- **In this Law and it's Regulations are included the methane capture and use and the “grisu” gas as energy generation source.**
- **With this regulation there's considered the private energy generation and the Interconexion with the National Electric Company.**



The Future of the GMI ...

- **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 abatement, 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.**
- **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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SEMARNAT
Secretaría de Medio Ambiente y
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