



M2M IN MEXICO IN THE FRAMEWORK OF THE NATIONAL POLICY FOR CLIMATE CHANGE

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Potential impacts in Mexico of Climate Change

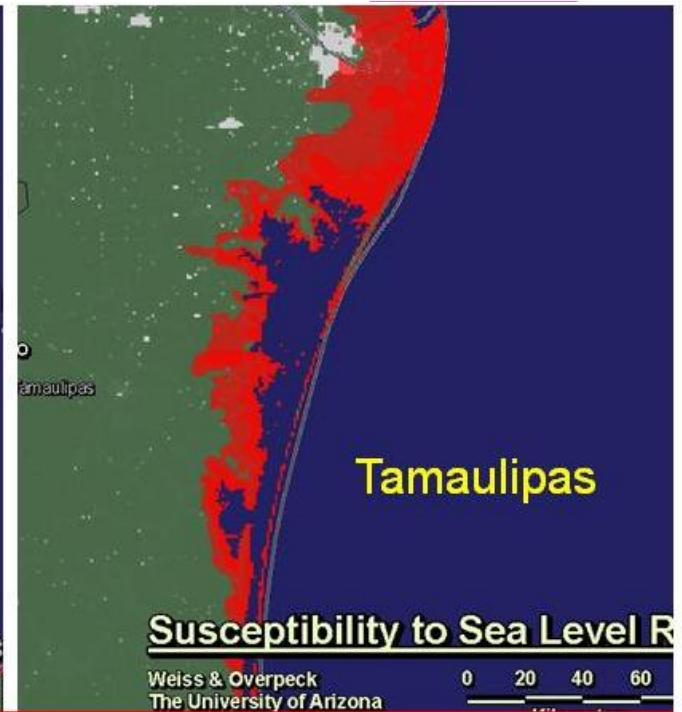
- Mexico is considered the fourth mayor bio-diverse country in the world.
- Highly vulnerable to the effects of climate change:
 - Temperature of the sea surface in Caribbean Sea, Gulf of Mexico and Pacific Ocean could rise between 1 and 2°C, accordingly;
 - The number and strength of severe storms and hurricanes could increase dramatically,
 - Draught periods could be longer and more extreme,
 - Possible increase in the number of forest fires,
 - Grasslands, semi-desertic vegetation, woodlands and forests could be severely damaged, deriving in the
 - Modification and loss of habitats as well as extinction of flora and fauna.



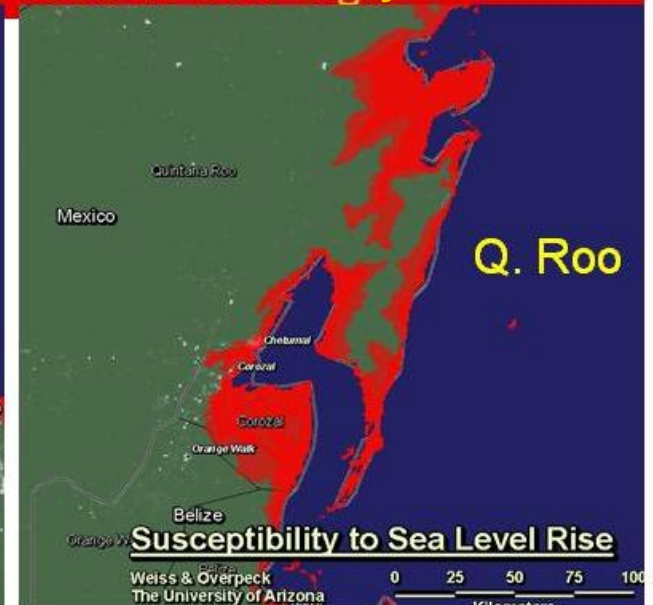
Current effects

- Annual average temperature have risen in Mexico in almost 0.5°C in the last 100 years.
- This increase in temperature has also derived in the increase of:
 - Heat waves,
 - Severe draughts,
 - Water scarcity in some areas,
 - Floods in low areas,
 - Forest fires,
 - More severe hurricanes,
 - Increase in sea level in low coastal areas, and
 - Glaciers melting





**Increase in sea level from 2 to 5 meters in different coastal areas of Mexico
Forecast: Increase of 40 cm from now to the end of this century.**

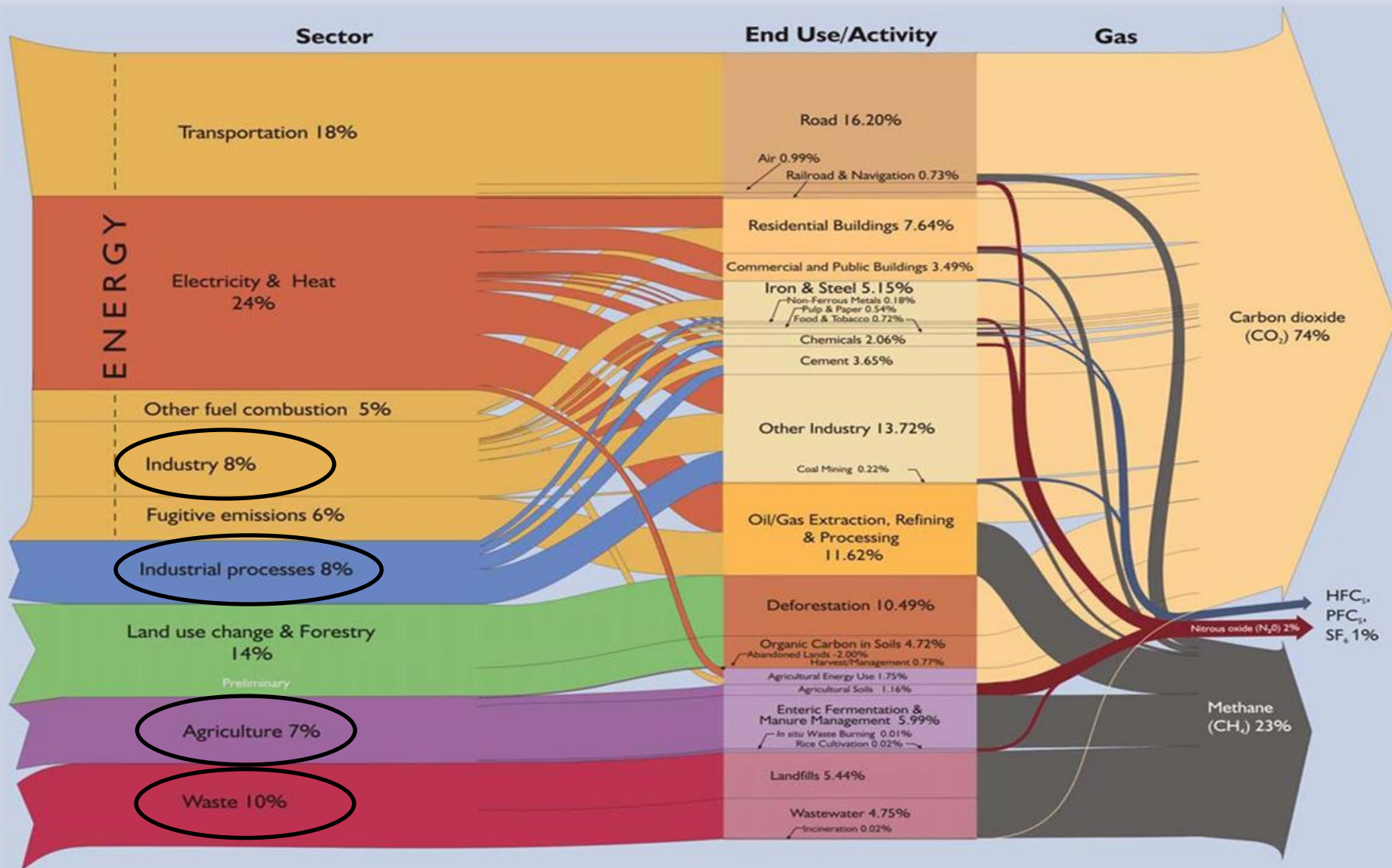


GHG Mexico's Contribution

- 750 million Tons of GHG (National Inventory);
- 1.5% of the global emissions;
- 13th place of global emissions;
- 93rd place in per capita emissions
- Accumulated GHG emissions from 1950 and 2000:
 - 15th place by energy use and generation;
 - 16th place by deforestation;



GHG emissions, by source and gas, in Mexico



Mexico's Efforts

- Main environmental challenge for the 21st Century.
- Mayor treat for global development and human wellbeing.
- Mexico is particularly vulnerable to the effects of climate change.
- Mexico has joined most international efforts to face climate change (including M2M)
- 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



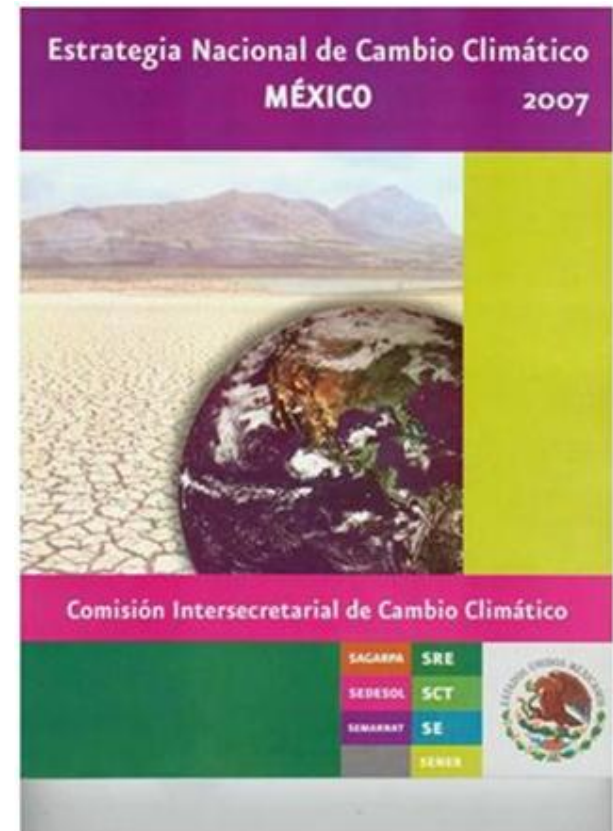
National Strategy for Climate Change

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- In 2007, Mexico issued the National Strategy on Climate Change (NSCC), which identifies:
 - Estimates Mexico's potential for emission reduction,
 - Proposes a suite of research objectives as a tool for laying out more precise mitigation targets, and
 - Specific measures for mitigation,
 - Outlines national requirements for capacity building for adaptation to the effects of climate change.



Special Programme for Climate Change (SPCC)

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Published in August 2009, as the strategy orienting Mexico's efforts to contribute to face Climate Change.

- Long term vision (mitigation and adaptation)
 - Addressed to modify economic and social behaviour and to establish a long term policy to match international efforts.
- Mitigation
 - Actions to produce inventories on emissions and reduction programmes for the different sectors: energy; agriculture and forestry; waste management; water treatment and industry.
- Adaptation policies
 - Systems approach: human and natural systems; and risk analysis
- Trans-sectoral policies to support mitigation and adaptation
 - International cooperation, capacity building; economics of climate change; education and training; information and communication; and research and technological development.
- Methane to Markets (M2M) was included as one of the strategies in the Mexico's Special Programme for Climate Change.

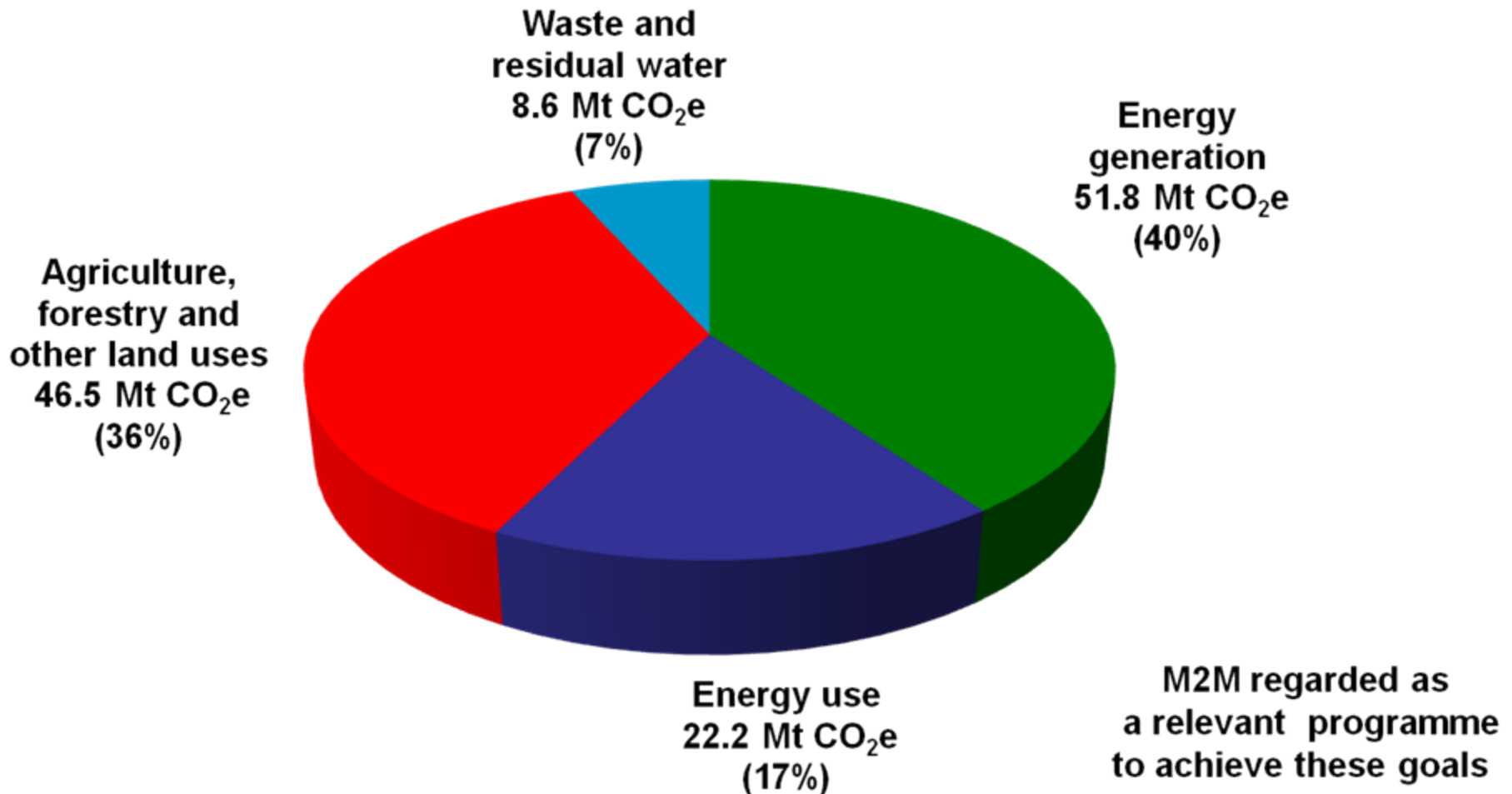
PECC's Mitigation Goals 2008 - 2012

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Accumulated reductions by 2012: 129 MtCO₂e



M2M in Mexico's C.C. policy

- Mexico takes part in the partnership since 2005, as a mean to participate in worldwide efforts to mitigate green-house gases emission and climate change.
- Mexico sees the opportunity to implement projects addressed to the recovery and use of methane as a valuable source of clean energy, to advance in guarantying energy security, improve environmental quality and reduce green-house gas emissions.
- Since 2006, SEMARNAT, USAID and EPA established a programme to implement a series of projects addressed to reduce methane emissions and use methane as a renewable source of clean and low-cost energy.
- 2009, strategy of Mexico's policy for Climate Change, included in the Special Programme for Climate Change.



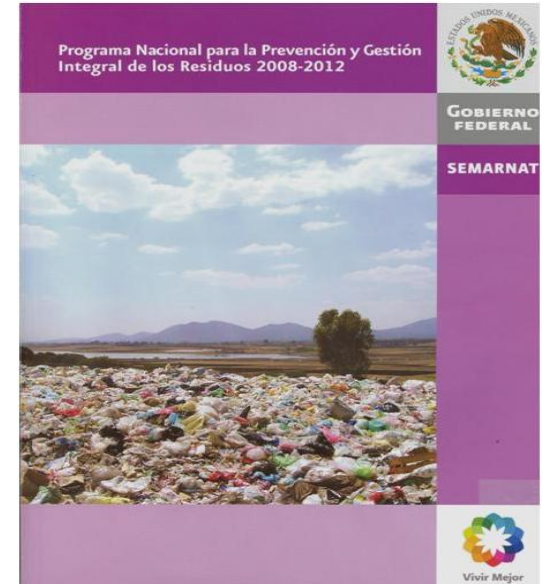
National Programme for Waste Management

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- April 2009, SEMARNAT issued the National Programme for Waste Management.
- Consistent with the Special Programme for Climate Change in terms of setting specific goals for GHG emission reduction.
 - Development of 29 landfill projects
 - Estimated reduction of 7.5 MtCO₂e in the period 2008 - 2012;
 - 4.44 MtCO₂e per year only in 2012.
 - Reduction of methane emissions by mitigation and electricity generation projects on three waste water treatment plants.
 - Estimated reduction of 1 MtCO₂e per year in the period 2008-2012.



M2M objectives in Mexico

Specific line of action within the Mexico's National Strategy for Climate Change.

- Contribute to achieve national and international objectives related to Climate Change.
- Stimulate regional growth by promoting development of regional and local capacities,
- Guaranty energy supply in the mid-term,
- Develop technical schemes for cost effective projects for methane recovery and use,
- Promote participation of the private sector, agencies and other interested sectors in project development and implementation,
- Improve local air quality
- Reduce green-house gas emissions facing Climate Change



The Future of M2M in Mexico



- Consolidated programme addressed to:
- Support local capacity building through specific training programmes addressed to local governments, potential investors, enterprises, farmers, mining industry and developers.
- Develop a set of best practices and implementation guidelines for project development and implementation.
- Replicate pilot projects developed under the M2M Initiative at national, regional or international level.
- Promote recovery and use of methane as source of clean low cost energy for local production.
- Contribute to meet the goals established in the Mexico's policy for Climate Change (SPCC).

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