



Climate finance and sustainable cities.



United Nations
Climate Change



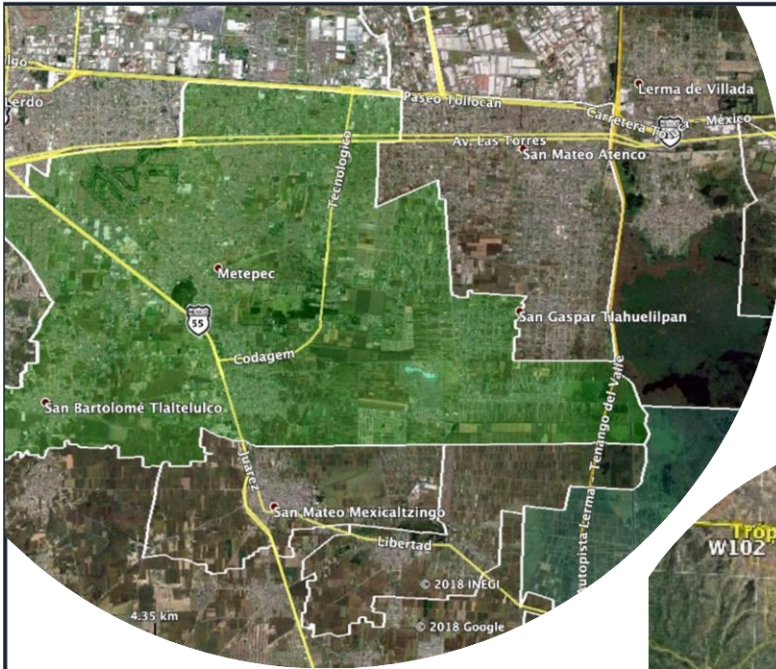
2019 SCF Forum: Climate Finance and Sustainable Cities

Metepec, Local strategy to reduce the impact of climate change.

Beirut, Lebanon, September 12-13



Metepec, Magic Town, State of Mexico



Geography

- 227,827 hab. (2015).
- 67.5 km² municipal Surface
- Density: 3,041 hab/km²

Land use

- 67.7% urban use land
- 32.0% agricultural land
- 0.3% grassland and Woodland

6.6 m² green area/ habitant (33.5% municipal y 66.5% state)



Presentation

- A town with a long history.
- Strengthened by its culture, parties and traditions.
- With values of honesty, transparency, discipline and passion for work.
- Its goal is the fulfillment of the 2030 Agenda
 - With sustainable development policies.
 - Developing actions to adapt and mitigate climate change.





We have signed the World Agreement of Mayors (date)

We have made his inventory of greenhouse gas generation (GHG), 2012.

We have a Municipal Climate Action Plan (PACMUN, 2017)

We are member of the International Environment Agency for Local Governments (ICLEI) (date)

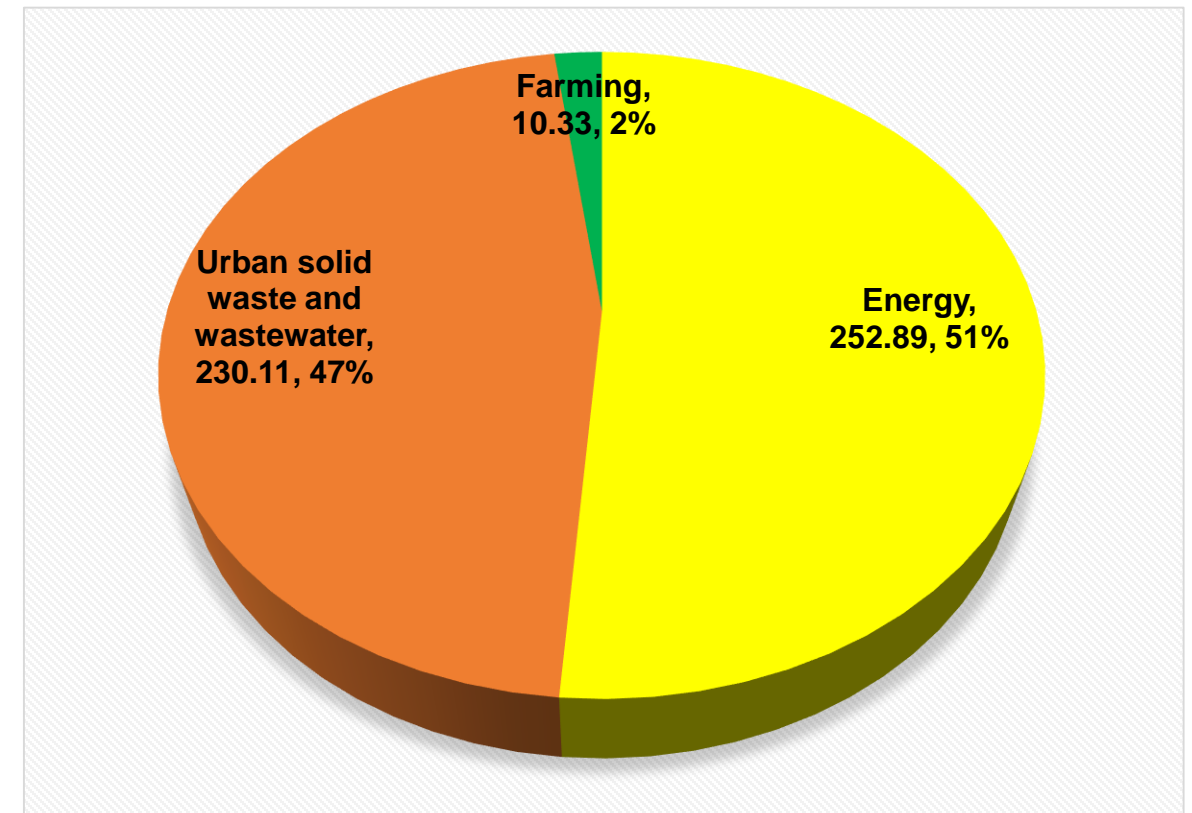


Metepec Emissions Inventory and Climate Action Plan (PACMUN, 2017)

From 100% of greenhouse gases (GHG):

- 51% comes from the burning of L.P. and natural gas, predominantly from home room; of this, 10% is the product of transport (diesel and gasoline).
- 47% originates from improper management of urban solid waste and wastewater.

**Total Emission of Greenhouse Gases by sector in Metepec
(Megaton. Of CO₂ Eq.)**



FUENTE: PACMUN, 2017

Municipal Actions Oriented to Mitigation and Adaptation to Climate Change (69.25 MUSD)



SDG 6.
Clean Water and Sanitation
 (10.67 MUSD)

- 35 rainwater collection systems in schools (4.60 MUSD)
- 2 Wastewater treatment plants with quality for direct use (irrigation) with a capacity of 100 and 60 liters per second, respectively (6.07 MUSD)

SDG 7.
 • Affordable and non-polluting energy
 (10.11MUSD)

- Change to 6,000 solar heaters (3.03 MUSD)
- Change of 9,584 public luminaires to LED technology (5.76 MUSD)
- Change of use of conventional electric energy by solar energy in 10 water wells (1.26 MUSD)
- Operation of gas ovens for clay crafts and inventory of baked partition producers (0.04 MUSD)

SDG 9.
Industry, innovation and infrastructure
 (5.56 MUDS)

- Construction of collector system for wastewater and storm surplus (2.02 MUDS)
- First stage of installation of micro measurement of household and commercial drinking water consumption (1.52 MUSD)
- Construction of a purple line for treated wastewater for irrigation and services (2.02 MUSD)

SDG 11.
Sustainable cities and Communities
 (42.11 MUSD)

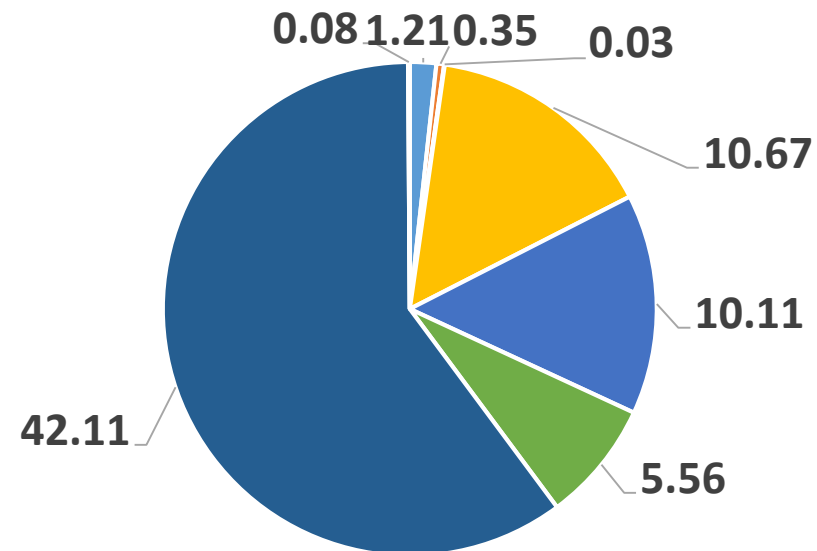
- Municipal program for the integral management of urban solid waste (12.89 MUSD)
- Second stage of sanitation of former municipal landfill (Undercut) (0.66 MUSD)
- Improvement of the cultivation of urban green areas (2.53 MUSD)
- Comprehensive alternative mobility program. Cycleway Network (23.63 MUSD)
- Strengthening of plant production capacity in municipal nursery (.61 MUSD)
- Conclusion of the 1st stage of administrative building construction (1.77 MUSD)

SDG 13.
Climate Action
 (0.8 USD)

- Identification of urban vacant lots to apply tax policy that stimulates cleaning, afforestation and fire prevention (0.08 MUSD).



Budget required for Climate Change Mitigation and Sustainable Development actions in Metepec (70.12 MUSD)



- 2. Hunger zero
- 3. Health and well-being
- 4. Quality education and sustainable development
- 6. Clean water and sanitation
- 7. Affordable and non-polluting energy
- 9. Industry, Innovation, and Infrastructure
- 11. Sustainable cities and communities
- 13. Climate action

CONCLUSIONS



Metepec is a municipality determined to comply with the 2030 Agenda.

Also committed to carrying out adaptation and mitigation actions to climate change.

We have a inventory of emissions, a Climate Action Plan (PACMUN) and we are member of the World Agreement of Mayors.

We count a selection of comprehensive projects amounting to 70.12 million dollars, of which 97.7% are oriented to climate change.

However, due to the administrative and fiscal regime of the Mexican Government, it is not feasible for a municipality to sign direct financing contracts, so we are looking for contributions to carry out these actions.



THANK YOU

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