

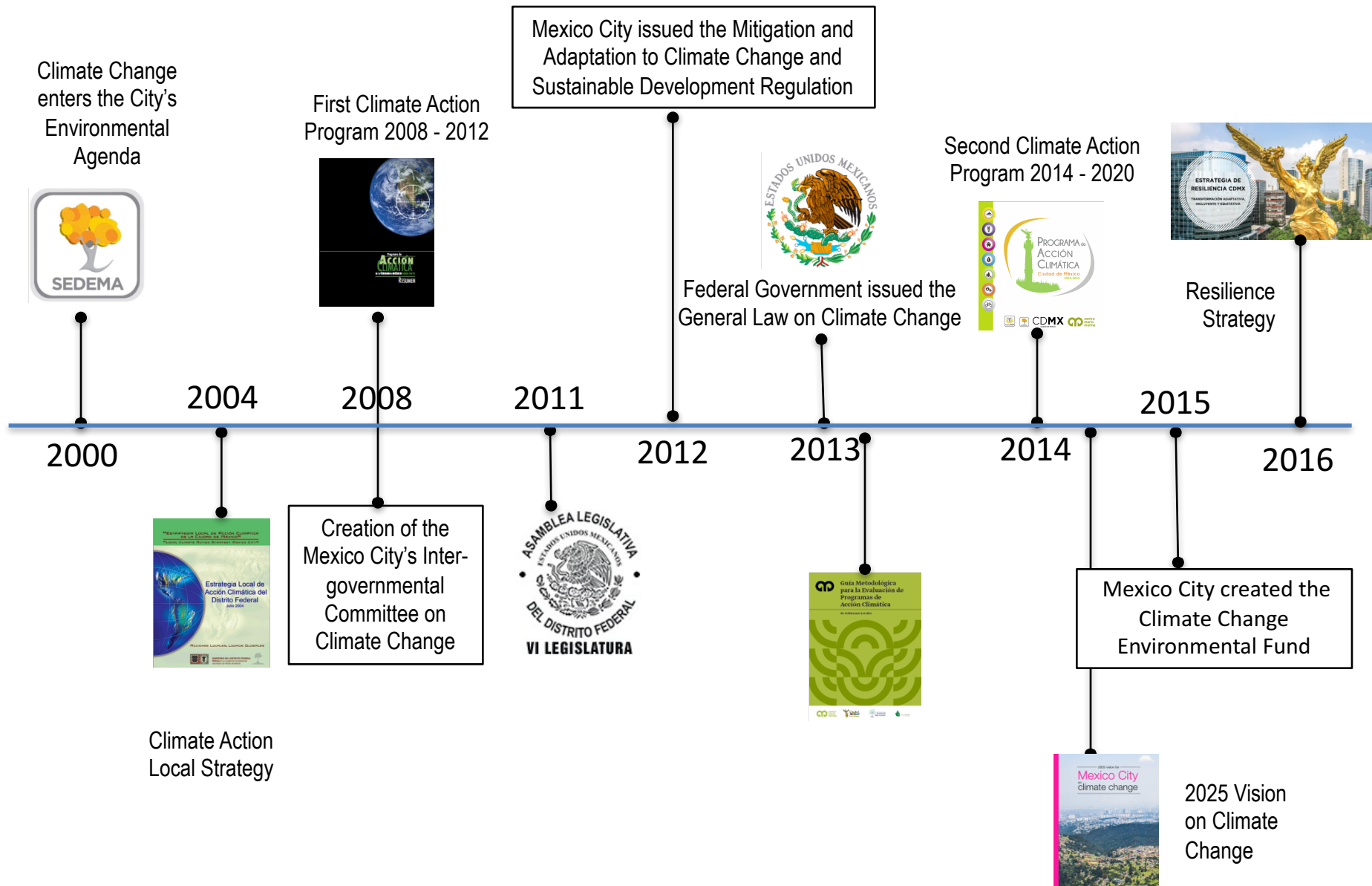


Mexico City's Building Energy Efficiency Activities

Mexico City's Perspective

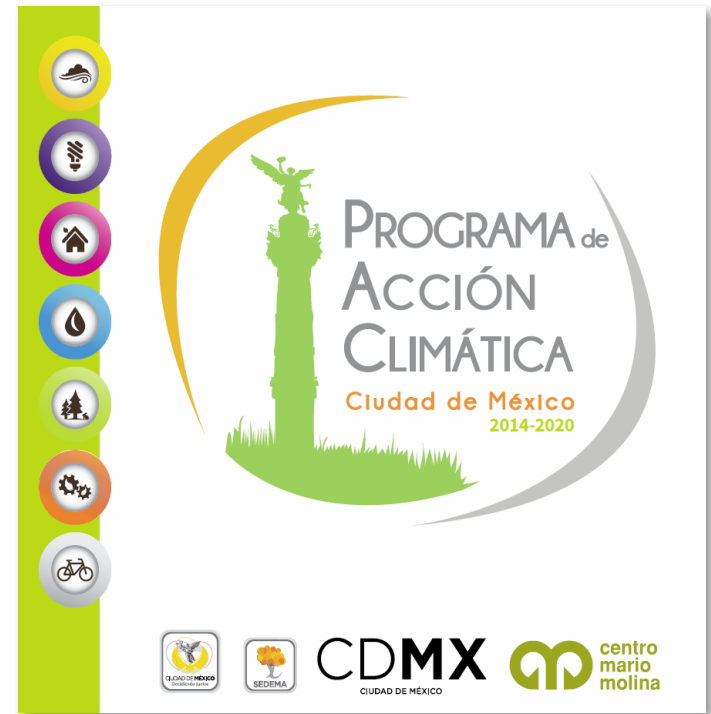
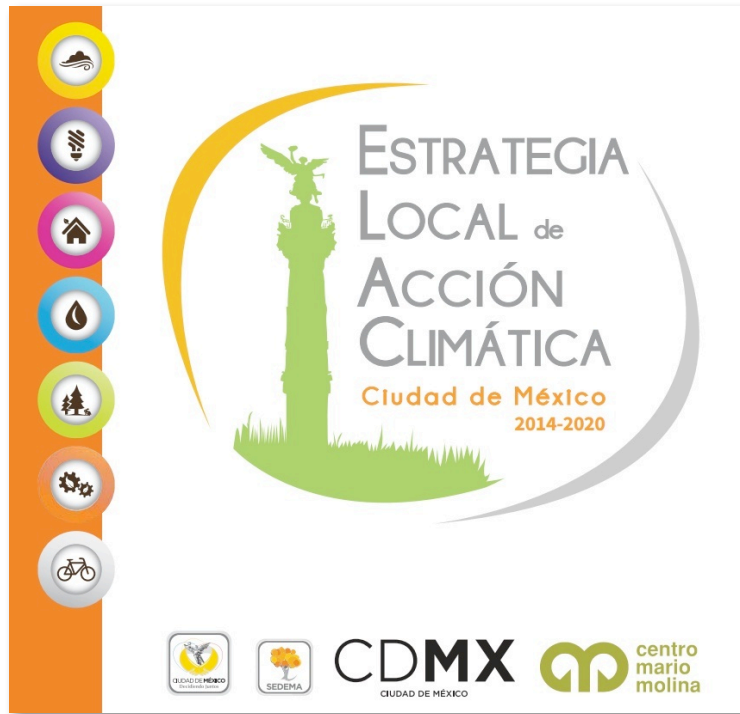
- Reflections on the BEA process in Mexico City:
- How this process has helped meet Mexico City's goals on climate change or other high-level goals
- How has the process been helpful? Are there ways to improve the process? Are there pieces that worked particularly well? Details of outcomes so far

Climate Change Policy Evolution



Mexico City's CC Perspective

- Climate Action Local Strategy 2014 – 2020 (ELAC)
- Climate Action Program 2014 – 2020 (PACCM)



PACCM Goals

A light gray circle with a dark gray border, containing the word "Mitigation" in bold black text.

Mitigation

10 million tons of CO₂e
accumulated to **2020**

A light gray circle with a dark gray border, containing the word "Adaptation" in bold black text.

Adaptation

Reduce Climate Risk to **5.6 millions of inhabitants** identified in vulnerable situation to climate change and build increased resilience.

PACCM Main components

1

**GHG and
Black
Carbon
emissions
mitigation**

2

**Adaptation to
Climate Change**

3

**Education
And
Communication**

PACCM Strategic themes

1

- Energy efficiency
- Renewable energy

2

- Urban planning instruments
- Mobility and transport infrastructure
- Intra-urban green spaces

3

- Integrated management of water resources
- Reduction of pollutant emissions
- Integrated waste management

4

- Conservation land
- Native species and wildlife

5

- Prevention and risk mitigation

6

- Empowering citizenship
- Adequacy of processes and content

7

- Strengthening of implementation
- Strengthening the monitoring and evaluation

Climate Action Program has 109 actions

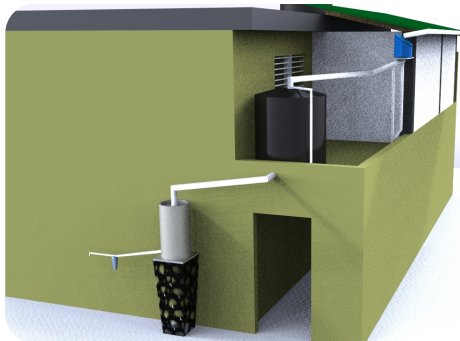
Mexico City's Perspective

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- Establish Mexico and Mexico City as leaders in SE4All
- Having results in policies and projects for buildings in BEA SE4All
 - *Market Development:* renewal pilot projects in buildings, municipal, commercial, including financing.
 - *Leadership:* change procedures and budgets to encourage investment in energy and technology.
 - *Regulation:* Implement a local building code.
 - *Measurement:* Measure progress towards carbon mitigation targets and other.

Building Energy Efficiency Actions

Actions	Total Cost (USD)
Systems modification and institutional buildings energy consumption habits	\$143,300
Water Saving Program in public schools buildings, Rain water capture	\$143,300
Renewable Energy Use in 12 public hospitals	\$889,000
Building Codes Modifications to include sustainability criteria	ND
To develop and publish the Sustainable Audit Program	ND
To encourage energy efficiency improvement in the service sector	ND
Low Carbon Schools	ND



Building Efficiency Actions

Sustainable Housing Program



- 15,000 existing houses
- 5,362 tCO₂e

Renewable Program



- **Solar Water Heater Mandatory Rule (Mexico City's Environmental Ministry)**
- By 2010, 10,000 SWH panels equals \pm 20,000 m².

Environmental Administration System (SAA, in spanish)

50

Registered Institutions



64

Buildings

150

Diagnostics

37

Solid Waste

34

Water

39

Energy

40

Green Procurement

SAA Results

Solid Waste

791

Generated Tons



164

Recycled Tons

33% of the institutions have a Management Plan

Energy

21,024,434

Total Consumption Kwh



2,735,073

Saved Kwh

SAA Env. Benefits

Solid Waste

558

Reduced Ton
CO₂

Energy

1,461

Reduced Ton
CO₂

Water

19

Reduced Ton
CO₂

Green
Procurement

1,297

Reduced Ton
CO₂

TOTAL

3, 335

Reduced Ton
CO₂

Case studies

LEED-EBOM Certification – “Palacio Virreinal” Building

Daily Waste
Generation

70.2 kg

Organic, inorganic, recyclable
and special management

Annual
Reduction
Forecast

19

Ton de CO₂



SWH System - Pediatric Hospital “La Villa”

32

SWH Panels



34

Reduced Ton de CO₂

22,460 lt

Diesel use
consumption

\$15,454 USD

Annual economic
savings



Next steps: Building efficiency audit-investment grade



Urban Development and Housing
Ministry Building



Finance Ministry Building



“New Government Building”



Metro Project



Thank you!!

Mexico City's Environmental Ministry

sedema.cdmx.gob.mx