



SEMARNAT

SECRETARÍA DE MEDIO AMBIENTE
Y RECURSOS NATURALES

**MEXICO'S INDC'S ,
STRATEGIES AND ETS /
NATIONAL EMISSIONS
REGISTER
MITIGATION COMPONENT**

September, 2015



December 1st



January 29
**CLIMATE CHANGE
INTER-MINISTERIAL
COMMISSION**
14 Secretariats



June 3
**NATIONAL
STRATEGY FOR
CLIMATE CHANGE**
Vision 10-20-40



April 28
**SPECIAL CLIMATE
CHANGE PROGRAM
2013-2018**

2012

October 10
LGCC

December 5
**CLIMATE
CHANGE
FUND**

May 14
**CLIMATE CHANGE
COUNCIL**



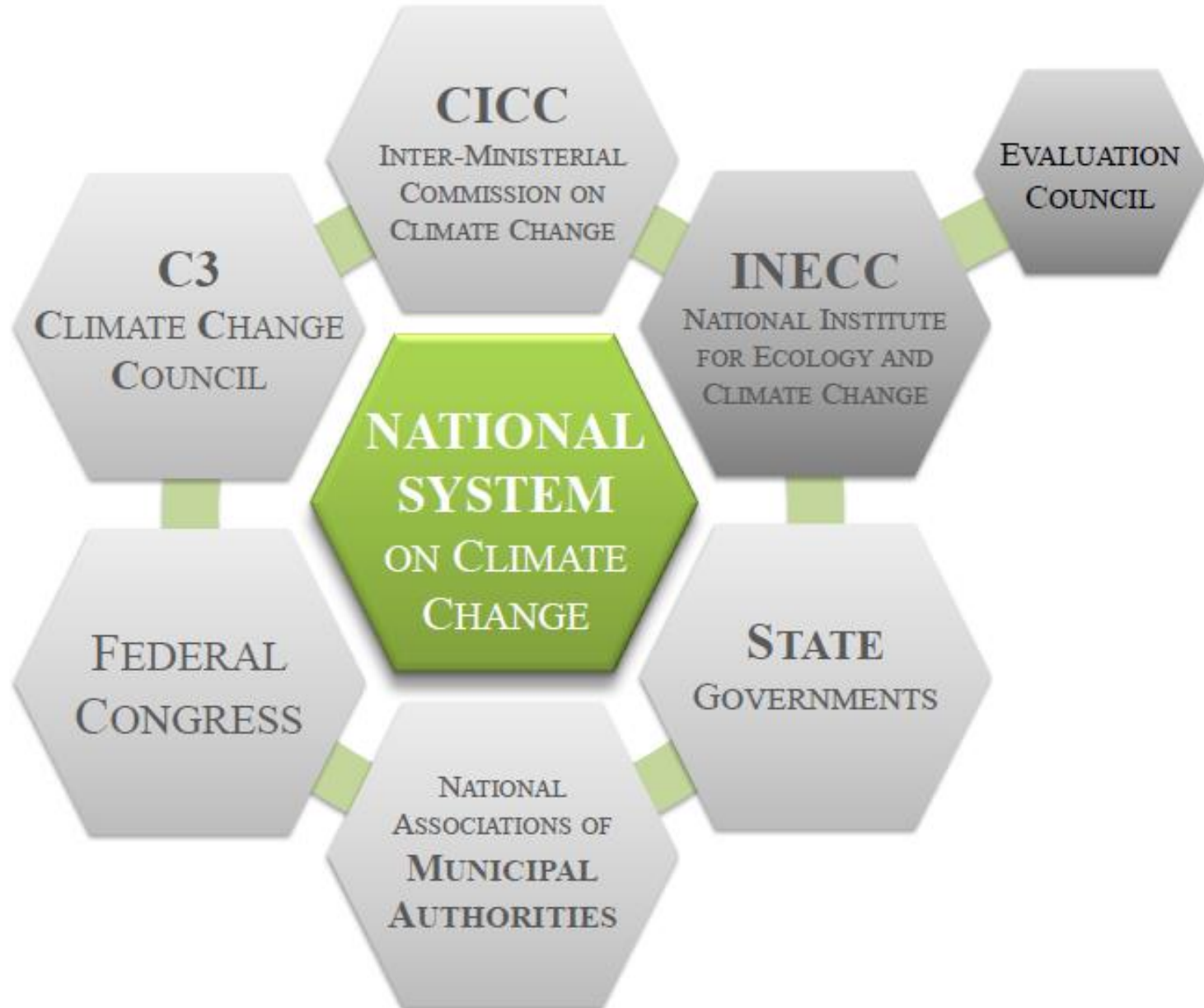
2013

November 14
**CARBON TAX
for fossil fuels**

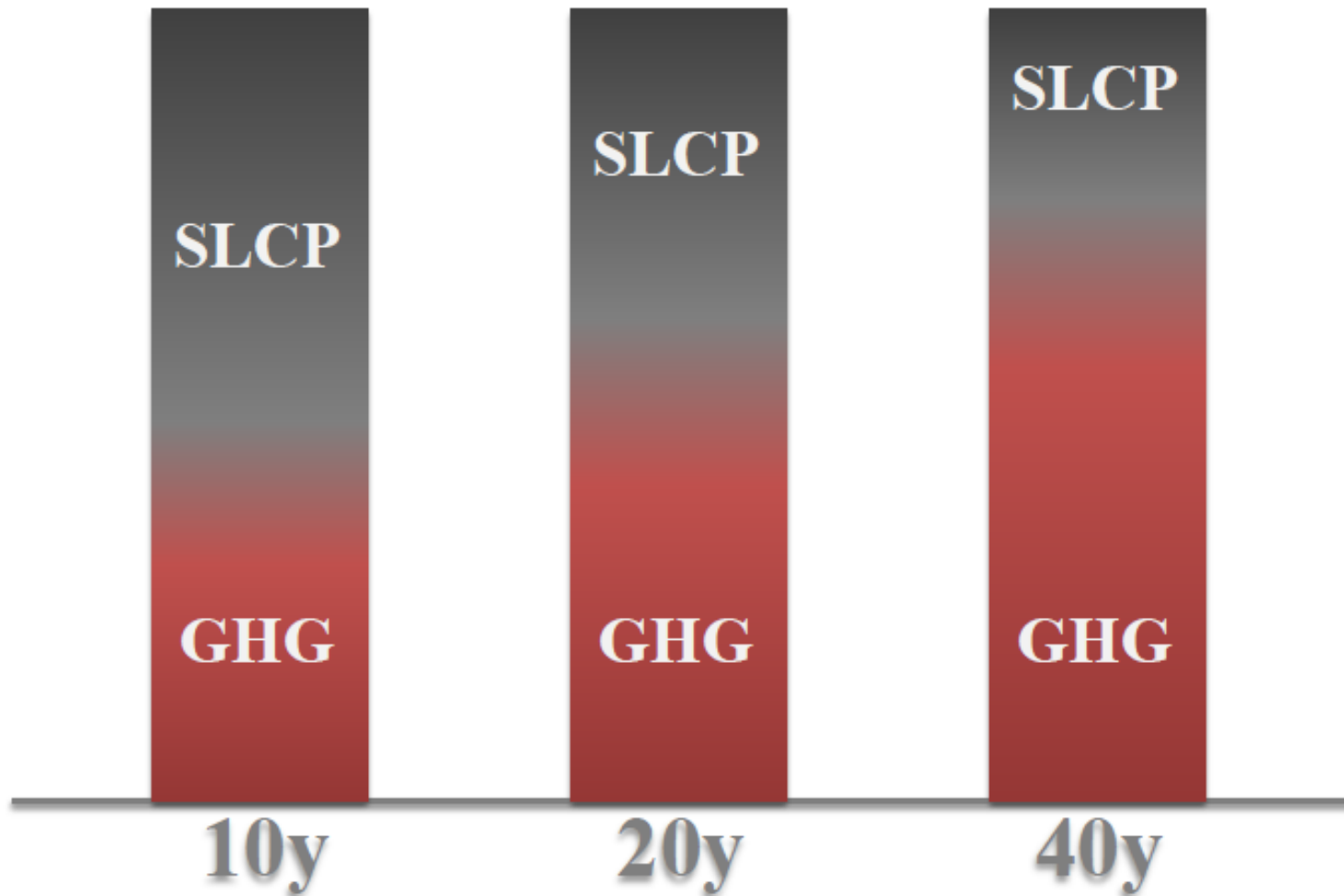
2014

December
**CONSTITUTIONAL
ENERGY REFORM**

June
**ENERGY
REFORM
SECONDARY
LEGISLATION**



MITIGATION EFFORT



		Greenhouse gases MtCO ₂ e	Black carbon 1000 tons MtCO ₂ e		TOTAL MtCO ₂ e
TRANSPORTATION		148	42	38	186
ELECTRICITY GENERATION		126	9	8	134
RESIDENTIAL AND COMMERCIAL		26	19	17	43
OIL AND GAS		87	2	2	89
INDUSTRIAL		141	35	32	173
AGRICULTURE		80	10	9	89
RESIDUALS (residual water and urban solids)		31	<1	≈0	31
USCUSS (use of land, change in use of land and silviculture)		33	3	3	36
DIRECT EMISSIONS		672	121	109	781
USCUSS	absortions	-173			-173
TOTAL		499	121	109	608

Black Carbon Objective: -51%

BASE LINE

	2013	2020	2025	2030
TRANSPORTATION	42	29	31	34
ELECTRICITY GENERATION	9	4	3	3
RESIDENTIAL AND COMMERCIAL	19	15	16	16
OIL AND GAS	2	2	3	>3
INDUSTRIAL	35	62	70	80
AGRICULTURE	10	11	12	>12
RESIDUALS (residual water and urban solids)	<1	<1	<1	<1
USCUSS (use of land, change in use of land and silviculture)	3	3	3	3
DIRECT EMISSIONS	121	127	139	152

Emissions in 1000 square tons

OBJECTIVE
for 2030

NON
Conditional

2030	Δ
10	-72%
<2	-41%
7	-58%
3	-1%
41	-49%
9	-22%
0	-88%
3	0%
75	-51%

*CN=900 CO₂

GHG Objective: -22%

Emissions in
MtCO_{2e}

**OBJECTIVE
for 2030**

**NON
Conditional**

	BASE LINE			
	2013	2020	2025	2030
TRANSPORTATION	148	185	205	229
ELECTRICITY GENERATION	126	143	181	202
RESIDENTIAL AND COMMERCIAL	26	27	27	28
OIL AND GAS	87	123	132	137
INDUSTRIAL	141	154	177	202
AGRICULTURE	80	88	90	93
RESIDUALS (residual water and urban solids)	31	40	45	49
USCUSS (use of land, change in use of land and silviculture)	33	32	32	32
DIRECT EMISSIONS	672	792	888	973

2030	Δ
181	-21%
139	-31%
23	-18%
118	-14%
194	-4%
86	-8%
35	-28%
-14	-144%
762	-22%

*CN=900 CO₂

Merged Objective: -25%

Emissions in
MtCO₂e

**OBJECTIVE
for 2030**

**NON
Conditional**

	BASE LINE			
	2013	2020	2025	2030
TRANSPORTATION	186	211	233	260
ELECTRICITY GENERATION	134	147	18	205
RESIDENTIAL AND COMMERCIAL	43	41	41	41
OIL AND GAS	89	125	134	140
INDUSTRIAL	173	209	239	274
AGRICULTURE	89	98	101	112
RESIDUALS (residual water and urban solids)	31	40	45	49
USCUSS (use of land, change in use of land and silviculture)	36	36	36	36
DIRECT EMISSIONS	781	906	1,013	1,110

2030	Δ
189	-27%
141	-31%
28	-31%
120	-14%
232	-15%
95	-9%
35	-28%
-11	-131%
829	-25%

*CN=900 CO₂

Conditional objective 2020-2030

If an agreement is reached at the COP21 in Paris, which accelerates the financial support and technological transfer to developing countries, Mexico reiterates its Law commitment to reduce in 30% its emissions by 2020, which implies a conditional objective to 2030:

CONDITIONAL OBJECTIVES

-40% on baseline

Compound effect of reduction:

-70% black carbon

-36% greenhouse gases

With this commitment of climate management, MEXICO will have a peak in maximum emissions by 2026 and will achieve a reduction on carbon's intensity by 40%

✓ Reduction from 40 to 24 kgCO₂ e/1,000 pesos from 2013 to 2030

I. GHG REPORTING PROGRAM (**MANDATORY**)



- ANNUAL REPORT
- VERIFICATION (EVERY THREE YEARS)

II. REGISTRATION OF MITIGATION ACTIVITIES (**VOLUNTARY**)



- CDM
- VCS, CLIMATE REGISTRY, CAR, PLAN VIVO, MEXICO'S FORESTRY STANDARD (NMX)

- **SOURCES:** STATIONARY AND MOBILE
- **TYPE:** DIRECT AND INDIRECT EMISSIONS
- **THRESHOLD:** > 25,000 TONS CO₂e/YEAR, PER FACILITY OR COMPANY
- **MRV:** VERIFICATION EVERY 3 YEARS
- **SECTORS:** ENERGY, INDUSTRY, COMMERCIAL, WASTE, AGRICULTURE, TRANSPORTATION
- **GHG & COMPOUNDS:** CO₂, CH₄, N₂O, **BC**, HFCs, HCFCs, PFCs, SF₆, NF₃, HALOCARBONS, HALOGENATED ETHERS
- **FINES**
 - 2,200USD - 13,500 USD (for not submitting the GHG report)
 - 13,500 USD - 45,000 USD (for any forged, counterfeit, altered, or falsely made document)

**First phase.
Voluntary registration**

- **To act as a database**
 - All projects occurring across Mexico
 - Units that have been verified by SEMARNAT-recognized standards
 - Completely independent of any system

**Second phase. Certification scheme
(scope to be defined)**

- **To record reductions based on direct-measurement methods**
 - All GHG reductions obtained from direct measurement can be accounted as emissions reductions
- **Potential link to REDD+ and Forestry Standard**
- **Link with carbon tax**
 - Carbon tax accepts compensations from CDMs. Operation rules are still pending.



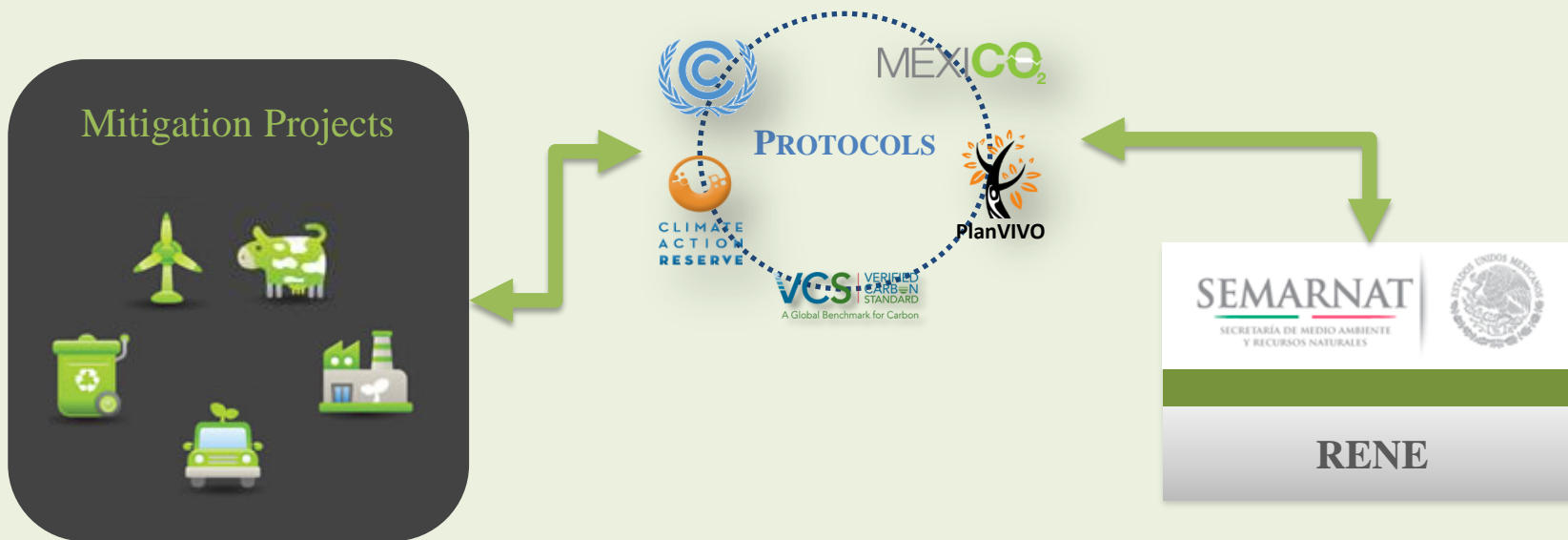
Timeline

Concept	Time											
	Year 1 (2015)		Year 2 (2016)				Year 3 (2017)					
	III	IV	I	II	III	IV	I	II	III	IV		
A. Regulatory analysis												
i. Comparative analysis of existing regulations (GCCL, INDC, LEI)												
ii. Definition of regulatory framework (what legal instrument?)												
B. Economic analysis												
i. RENE Data analysis (historic data)												
ii. Micro and macro modelling												
iii. Cost-benefit analysis												
C. Institutional analysis												
i. Assessment of institutional capacities (who will run the C&T programme?)												
ii. Proposal for institutional arrangements (who will take part?)												
iii. Assessment of financial capacities (existing and potential)												
D. Design of the cap												
i. Scope definition												
ii. Definition of sectors												
iii. Implementation of the cap (rules published)												
iv. C&T simulation												
E. Design of the web platform												
i. Preparation of TORs (functionalities and necessities of the system)												
ii. Development of the system												
iii. Pilot testing												

Stakeholder engagement

Registration Process 1st Phase

The 1st phase involves the registry of projects in Mexico verified by international standards



Strengths on current actions to develop an ETS in Mexico

- Significant advancements on Mexico's Institutional architecture and climate policy structure (ENACC, PECC, LAERFTE)
- Mexico's energy reform – Mexico's overhaul on the oil and electricity monopolies
- The passage of the new carbon tax => key precursor to a future ETS.
- Clean Energy certificates starting in 2018
- By 2024 - 35 % of electricity sources coming from clean energy

Areas of opportunity

- Cap & Trade timeline – capacity development
- Goal by 2050 - 50 % GHG emissions reductions -
Continuous economic growth – stress on current
infrastructure
- Ambitious targets conditional on international support
- REDD+ development challenges

Challenges

- Achieving timeline objectives
- Forging the base financial structure of the Cap & Trade to foster allowances
- Capacity building on all the stages of the timeline – generating an institutional architecture strong on information analysis, including technical, economical and institutional assessments to support decision-making on the design of specific policies

Social sector

Adaptation based on ecosystems

Strategic Infrastructure and Productive sectors

Reduce by 50% the number of vulnerable municipalities (160 municipalities)

- Incorporate a climatic approach, gender equality and human rights in all the territorial and risk management planning instruments
- Increment the financial resources for the prevention vs the attention to disasters
- Establish the regulation in land use in risk zones
- Integral management of basins to guarantee water supply and access
- Make sure that public participation is part of adaption policies and capacity building strategies

By 2030 reach a 0% deforestation rate

- Reforestation in low, medium and high basins, considering the areas native species
- Increment ecological connectivity to carbon capture through conservation and restoration
- Increment carbon capture and coasts protection through coastal ecosystem conservation
- Synergies with REDD+ actions
- Guarantee integral management of water through its different uses (agriculture, ecological, urban, industrial, domestic)

Install early alert systems and risk management at the 3 levels of government

- Guarantee and monitor urban and industrial residual water treatment in population areas of more than 500,000 inhabitants
- Guarantee strategic infrastructure security
- Incorporate climate change programs in fish and agriculture programs
- Apply the environmental protection and adaptation norm to the development of coastal touristic real state development
- Incorporate adaptation criteria to public investment projects geared towards construction and infrastructure maintenance.



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GRACIAS