



GOBIERNO FEDERAL

SENER

Leonardo Beltran **Director-General, Information and Energy Studies**

IEA-SENER Workshop, CCS in Mexico: Policy Strategy Options for CCS March 7th, 2011



Gobierno FEDERAL

SENER

SE

SEMARNAT

















- 1 Introduction
- 2 CCUS in Mexico
- 3 National Energy Strategy 2012-2026
- 4 Prospects of CCUS in Mexico

Members of the Working Group

Ministries	National Companies and others	Regulators	Institutes
■ Energy	■ Comisión Federal de Electricidad	National Hydrocarbons Commission	■ Electrical Research
■ Economy	■ Petróleos Mexicanos		■ Oil Research
■ Environment	■ Conacyt	■ Energy Regulatory Commission	■ Ecology
	■ Conagua		Leology
	Mexican Geological Service		Mario Molina Center

International Commitments

Forum	Commitment
Global Carbon Capture and Storage Institute (Apr .09)	 Operate more than 20 CCS projects at industrial by 2020, supported through interchange of experiences, best practices and information.
North American Leader's Declaration on Climate Change and Clean Energy. (Aug. 09)	■ Elaborate an Atlas of CCS, in order to have a harmonized mapping methodology which will be useful for sharing information about large carbon emission sources and potential storage sites in North America.
Carbon Sequestration Leadership Forum (Oct.09)	• Mexico expressed the need to deepen global cooperation through information exchange, especially on demonstration projects.
Clean Energy Ministerial (Jul.10)	 Mexico endorsed the creation of the Carbon Capture, Use and Storage Group.

- 1 Introduction
- 2 CCS in Mexico
- 3 National Energy Strategy 2012-2026
- 4 Prospects of CCS in Mexico

Current status and trends	Background	ImportanceMexico's participationPurpose of the document
	CCS Technologies	Capture systemsTransportStorage
	Costs Comparison	CaptureTransportStorage
	International Experience	Commercial projects in operationPoliciesImplementation barriers
Diagnosis	Mexican Case	 Atlas of CO₂ storage Enhanced oil recovery Demonstration project
	International Position	 Storage permanence of CO₂ Measurement, reporting and verification Carbon market implications

Diagnosis – Mexican Case

Atlas

- Inclusion and exclusion areas
- Characterization of 11 basins:
 - Mexican Storage Atlas (March 2012)
 - North American Carbon Storage Atlas (April 2012)

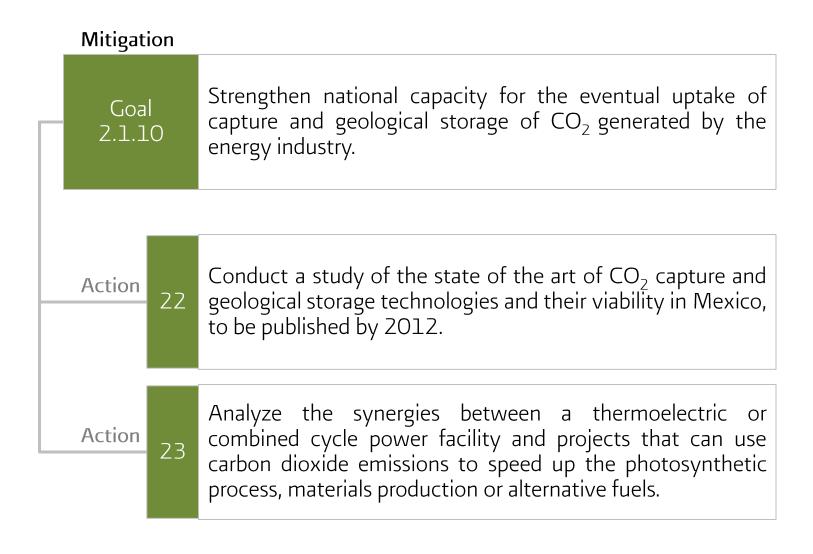
Enhanced Oil Recovery

- Experimental tests:
 - o Artesa field (2000) / Sitio Grande field (2005)
- Pilot projects in operation:
 - o CO₂ injection in Ogarrio field
 - o Enhanced oil recovery in Aceite Terciario del Golfo asset

Demonstration Project

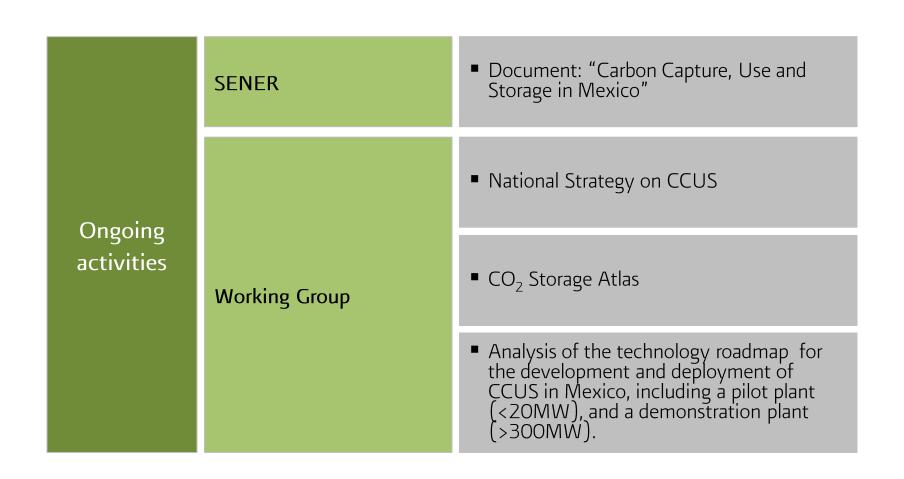
- Analyze the viability of capturing CO₂
 - o Poza Rica thermoelectric plant
 - O Use for EOR in Aceite Terciario del Golfo asset
 - o Possible injection in Coyotes or Poza Rica field

Special Program on Climate Change 2009-2012

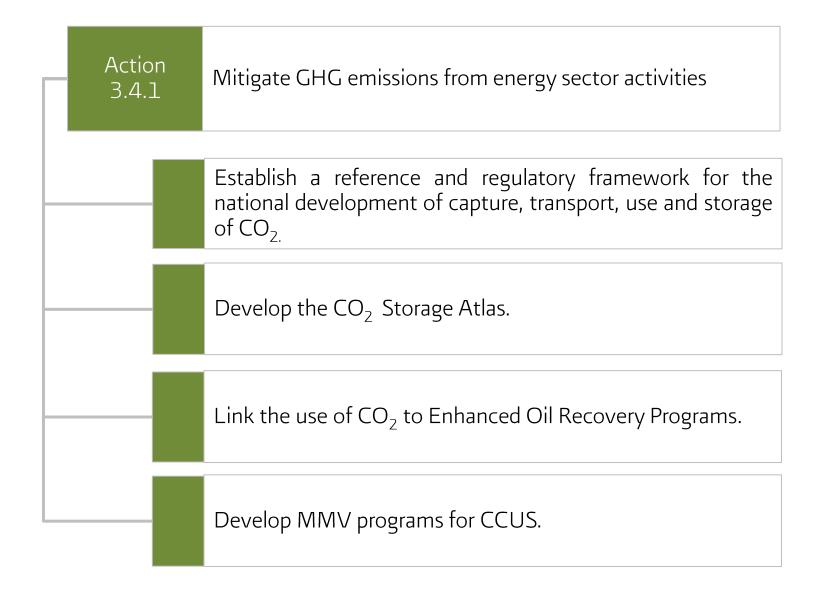


- 1 Introduction
- 2 CCS in Mexico
- 3 National Energy Strategy 2012-2026
- 4 Prospects of CCS in Mexico

National Energy Strategy 2012-2026

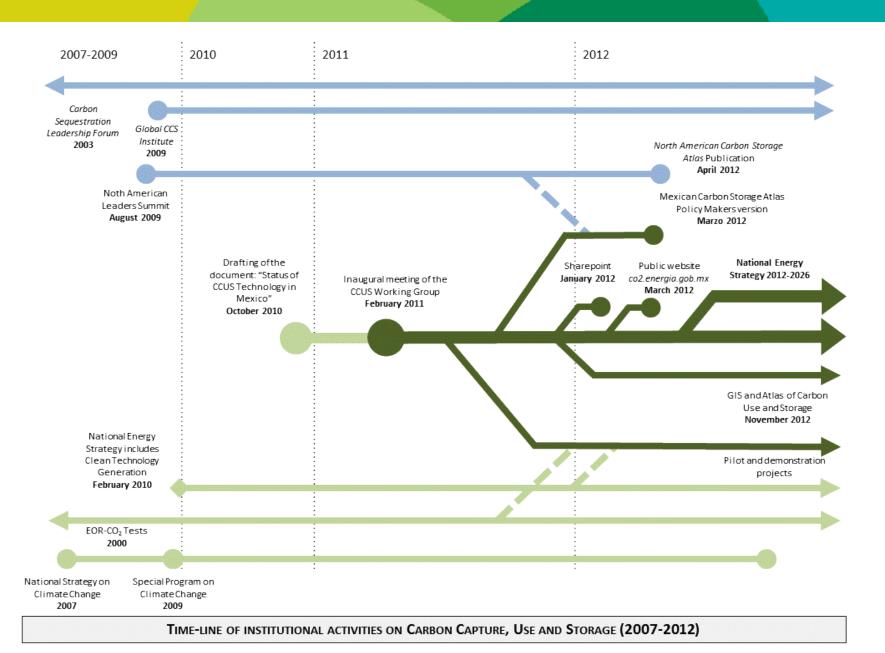


National Energy Strategy 2012-2026



- 1 Introduction
- 2 CCS in Mexico
- 3 National Energy Strategy 2012-2026
- 4 Prospects of CCS in Mexico

CCUS Time-line







GOBIERNO FEDERAL

SENER

Leonardo Beltran **Director-General, Information and Energy Studies**

IEA-SENER Workshop, CCS in Mexico: Policy Strategy Options for CCS March 7th, 2011



Gobierno FEDERAL

SENER

SEMARNAT

SE





















