



ASEA


AGENCIA DE SEGURIDAD,
ENERGÍA Y AMBIENTE

Establishing a Culture of Safety and Environmental Protection in the Hydrocarbons Sector in Mexico

CNH. June 19th, 2018.

- Energy Reform
 - New Institutional Arrangement
 - Scope
- Risk Management Model
- Goal Oriented Technical Regulation
- Final remarks

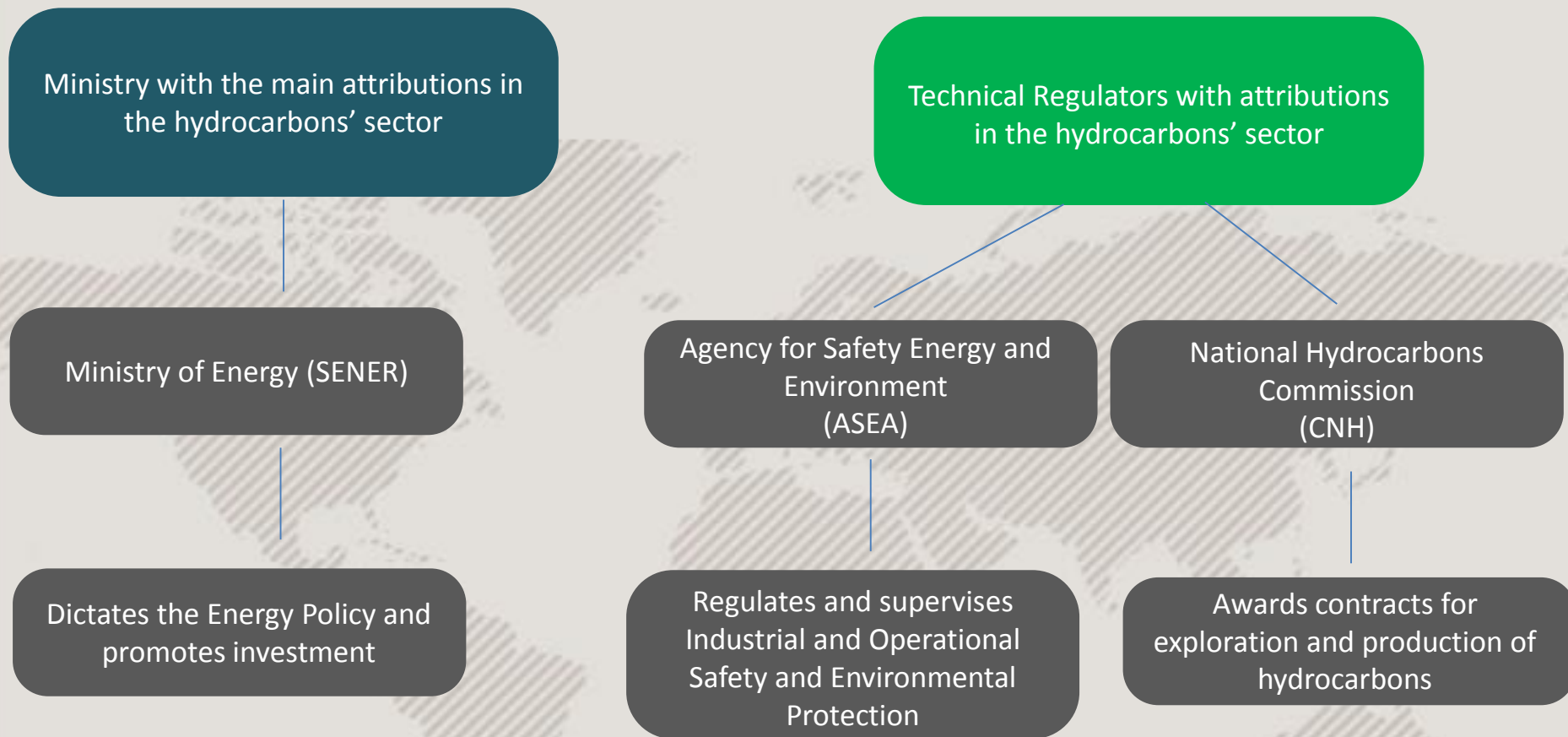
Article 19th Transitory of the Constitution



“...to regulate and supervise in terms of industrial and operational safety and environmental protection, the facilities and activities of the hydrocarbons’ sector...”

- A decentralized agency from the Ministry of Environment (SEMARNAT) is created starting operations in March 2015.
- The responsibilities of hydrocarbon resources management and those of industrial safety are separated.

Energy Reform: New Institutional Arrangement



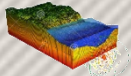
To Regulate

To Supervise

- Process and Industrial Safety
- Environmental protection

H y d r o c a r b o n s

Exploration



+2,900 Km
Seismic 2D

+6,100 Km²
Sesismic 3D

Drilling



+30,000
Onshore
wells

300
Offshore
platforms

Production



1.98
Millions
barrels per
day*

5.25
Billion
ft³ per day *

Industrial Transformation



6
Refineries

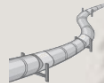
9
Gas Processing
Facilities

Distribution and Retail



+12,000
Service
Stations

Transportation



+60,000
Km of
pipelines



1,485
Pipes



520
Tankers

Storage



111
Terminals



+3,300
Gas
Distribution
and
Carburation
Centers

ASEA's Mission

To guarantee individuals' safety and environmental integrity with legal, procedural and cost-effectiveness certainty in the hydrocarbons sector.

Systemic Management of Industrial
Safety and Environmental
Protection

Sufficient Financial Responsibility
(Insurance)

Goal-Oriented
Technical Regulation

Risk Management

Corrective Legal Policy

Risk-based Inspection

Third parties

Administration by processes

Digital platform for permits and authorizations

Preventive Regulatory Guidelines:

- Safety and Environmental Management Systems (SEMS)
- Exploration and Production
 - Insurance
- Exploration and Production in non-conventional fields

Reactive Regulatory Guidelines:

- Incidents and Accidents Report (IAR)
- Root Cause Investigation (RCI)

- ASEA: Technical Regulator with a comprehensive Constitutional mandate for regulating and supervising the entire value chain of the hydrocarbons industry in Mexico.
- Clear objectives on risk management: The Regulated Entities are responsible for managing the risk inherent to their activities.
- Total preventive approach: Technical guidelines that allow Regulated Entities to operate under safe conditions.
- ASEA collaborates closely with other entities of the federal administration in the implementation of the Energy Reform.