

Mexico Energy Reform (2013-2018)



Five Year Natural Gas Pipeline Expansion Plan

Pipelines: █ CENAGAS █ Under Construction █ Privately Owned Operational

█ LNG Storage Terminals



Upstream Investment

Within 3 years, upstream oil and gas sector has attracted companies from over 20 countries with investment commitments of \$150 billion.

First Bidding Round

Phase	Date	Awarded	Investment†
1	7/15	2	2.7
2	9/15	3	3.1
3	12/15	25	1.1
4	12/16	8	34.3
Trion	12/16	T	7.4*

T=Trion Block in association with PEMEX
 *40% PEMEX, 60% BHP Billiton
 † Billion USD

Second Bidding Round

Phase	Date	Awarded	Investment†
2.1 ¹	3/17	10	8.2
2.2 ²	7/17	7	1.1
2.3 ²	7/17	14	0.95
2.4 ³	1/18	19	93

¹ E&P in Shallow Waters
² Onshore E&P
³ Deep Waters E&P

- Awarded**
1. Tuxpan-Tula
 2. La Laguna-Aguascalientes
 3. Tula-V. Reyes
 4. V. Reyes-Guadalajara
 5. San Isidro-Samalayuca
 6. Samalayuca-Sasabe
 7. Sur de Texas-Tuxpan

- 2017-2019 Period**
1. Jaltipan-Salina Cruz
 2. Lazaro Cardenas-Acapulco

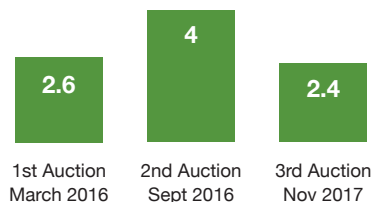
- Other**
1. Nueva Era (Midstream de Mexico)
 2. Salina Cruz-Tapachula
 3. Ramones-Cempoala

Lower Electricity Prices

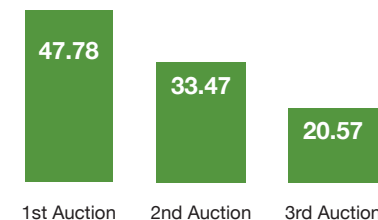
Electricity prices reduced by almost half from 2016 to 2017

Long-Term Electricity Auctions

Upstream Investment
Billion USD



Average Price
USD/MWH



Energy Reform Achievements

- Transparency
- Nationalized Energy Data
- Market Competition
- Foreign Direct Investment
- Private Retail Gasoline Market
- Lower Electricity Tariffs
- Increased Share of Clean Energy
- Off Grid Power Generation
- Job Creation
- International Energy Player (Member of IEA & IRENA)

\$170 Billion

Foreign Direct Investment (\$200 Billion by end of 2018)

~300K
of New Jobs

> 30

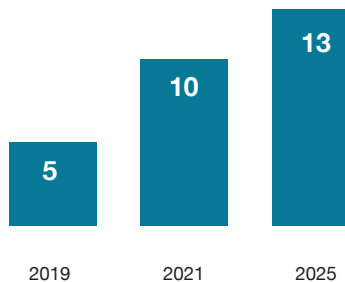
New Brands in 2,178 Gasoline Stations

19%

of Total Retail Gasoline Market is Occupied by Private Sector

Fuel Storage Capacity

by day



Power Generation

487
new generation plants

56 GW
additional by 2031

\$81 Billion
required investment

Transmission

23,772 km-c
of new transmission lines

2 new
HVDC lines

485K homes
electrified in 2017

Source: SENER, CNH, ASEA, CRE, PEMEX, CENAGAS