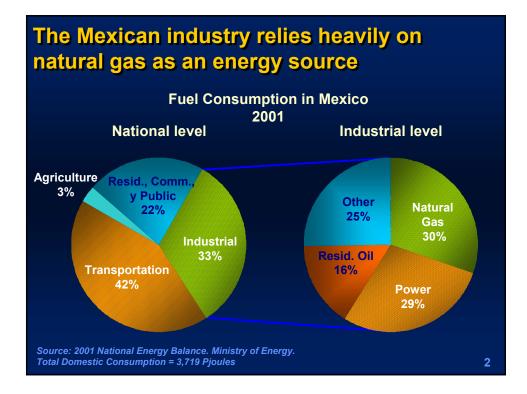
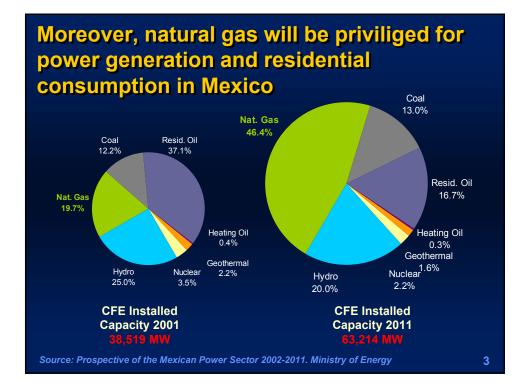


Integrating the Energy Markets in North America: Issues & Problems, Terms & Conditions

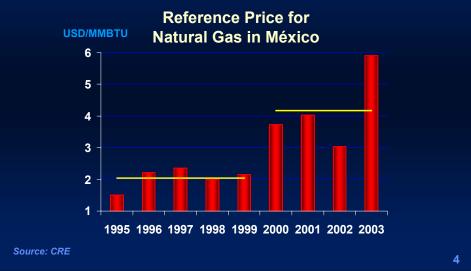
#### Perspectives of Natural Gas in Mexico

Mexico City October 20, 2003

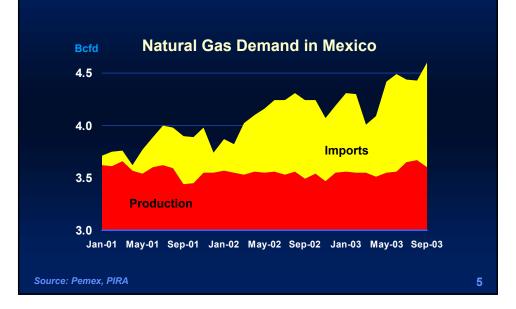




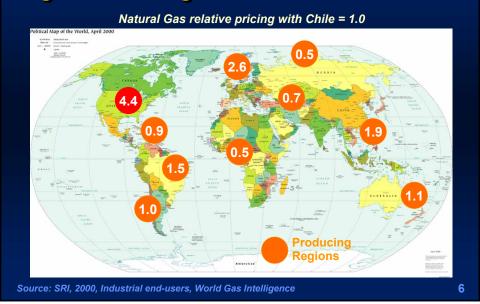


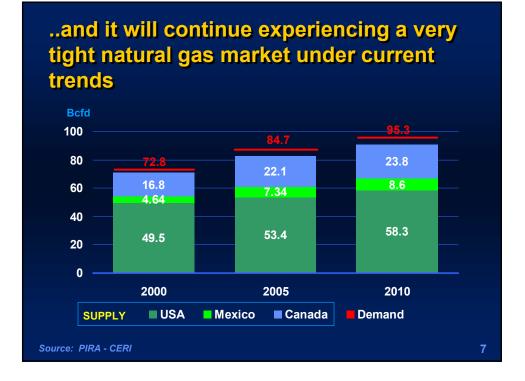


# Mexico has not been able to increase its natural gas production albeit high prices

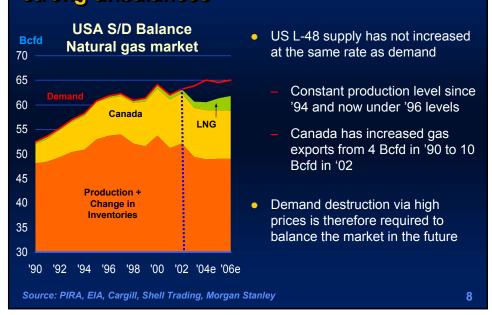


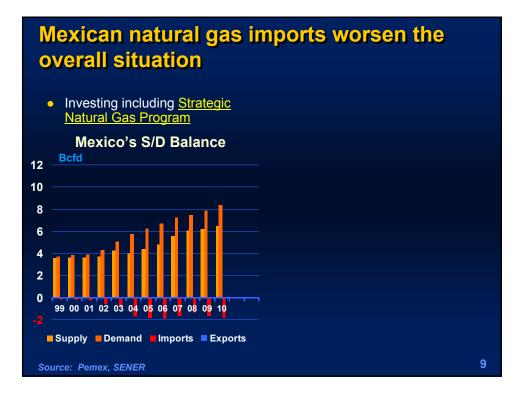
#### North America became the market with the highest natural gas cost in the world...



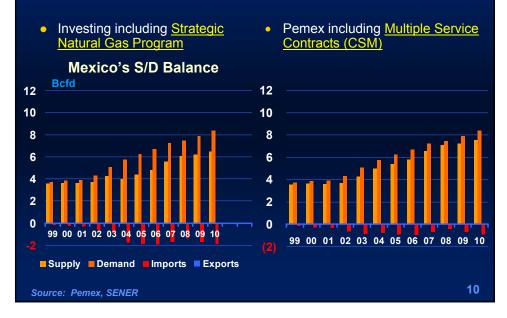


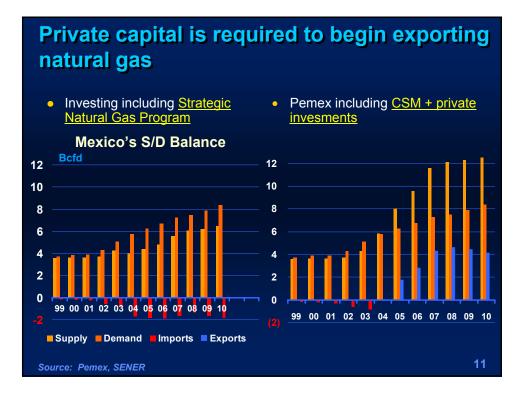
# Total supply in the US has declined causing strong unbalances

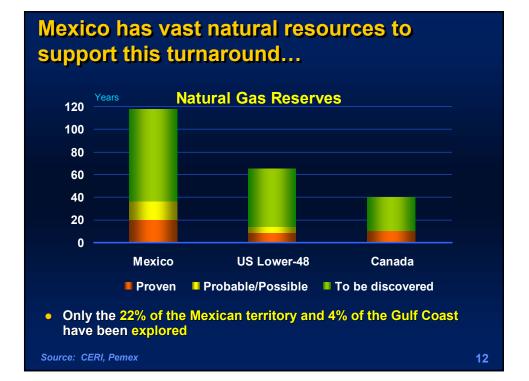


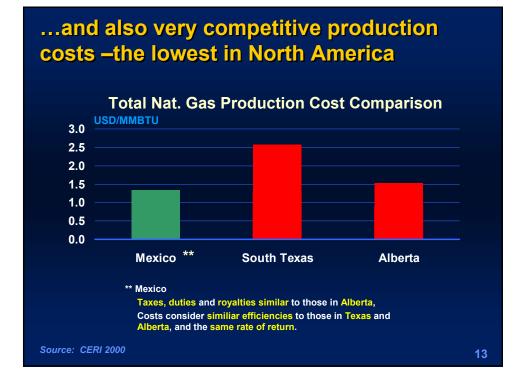


# Even with the CSM's, Mexico will continue importing continental natural gas









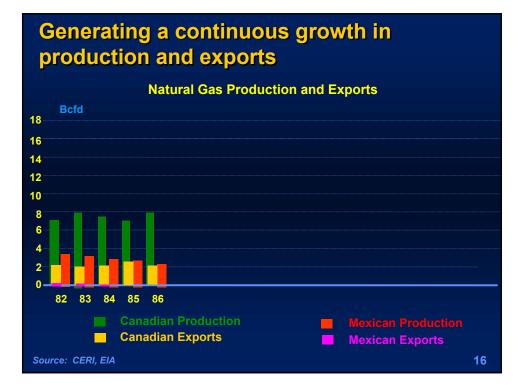
#### Canada is an adequate example to measure the benefits of private capital in the gas industry

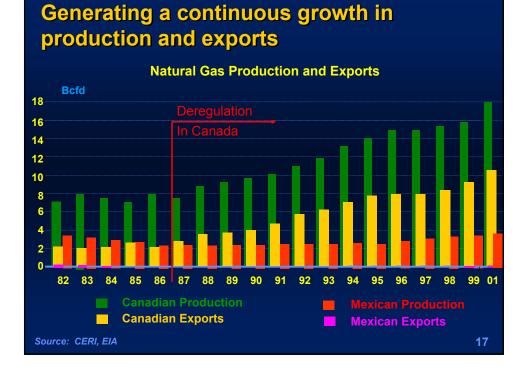
- The provinces or the State retain ownership of natural gas
- Clear legal and regulatory framework
- Production is unregulated encouraging internal competition by having more participants

#### Canada is an adequate example to measure the benefits of private capital in the gas industry

- The provinces or the State retain ownership of natural gas
- Clear legal and regulatory framework
- Production is unregulated encouraging internal competition by having more participants
- Simple fiscal and tax structure that supports continuous investments
- Simple rules for exporting
- Independent regulatory body with clear objectives that protect final customers

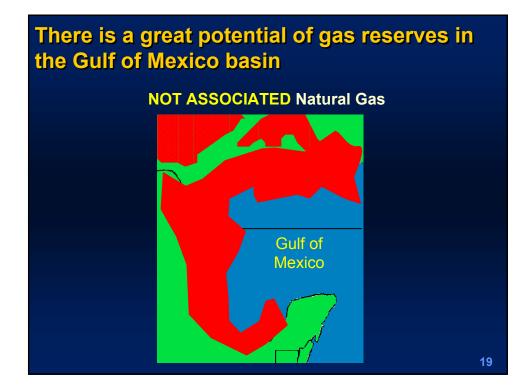
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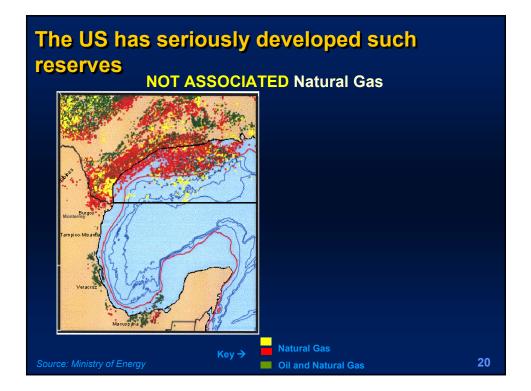


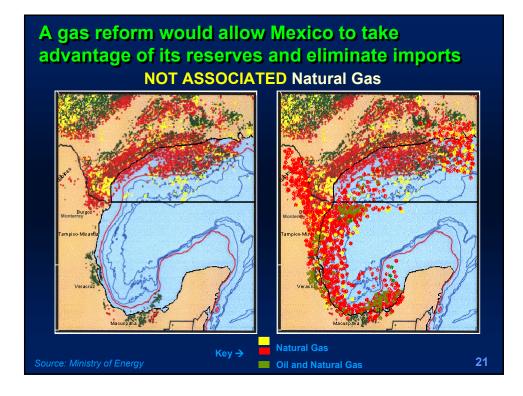


# Mexico has not yet developed its full potential in the gas sector

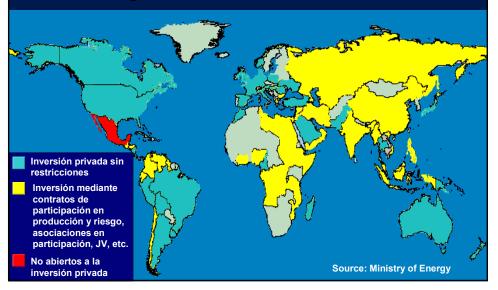
2000	Mexico	Canada
Reserves (Tcf)	55.7	60.7
Production (Bcfd)	3.3	16
Natural gas wells (estimated)	300	9,200
Annual Capex (Million US\$)	200	6,000
Export Sales (Million US\$)	35 a	10,000
Players in nat. gas sector	1	600
a) From January to September 2003, natural gas imports total US\$1.1 Billion		







Mexico would no longer be the ONLY country in the world that does not allow private capital in the oil and gas industries



#### Having augmented its domestic production and internal competition, Mexico could stabilize gas prices and increase its competitiveness



#### Straightforward proposals to turn around current situation on the long run (1)

- Strengthen Pemex operations endorsing E&P gas programs as well as authorizing CSM's efforts
  - Fiscal framework that would allow Pemex to re-invest in gas rigs
  - Clear mandate for Mexico to register natural gas surplus in 2005

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- Strengthen Pemex operations endorsing E&P gas programs as well as authorizing CSM's efforts
  - Fiscal framework that would allow Pemex to re-invest in gas rigs
  - Clear mandate for Mexico to register natural gas surplus in 2005
- Open the natural gas sector to private capital to balance Pemex investments in natural gas exploration, production and distribution
  - The State continues to have title and ownership of the natural gas
  - The Government would receive economic benefits in royalties and duties per unit of natural gas production, in addition to income tax
    - Transfer to the states and municipalities involved some of the generated fiscal income to support their individual infrastructure and social development

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#### Straightforward proposals to turn around current situation on the long run (2)

- The Government remains responsible for the planning and investment promotions
  - Regulation and surveillance of E&P activities by a technical committee to protect and preserve natural gas reserves and local environment

# Straightforward proposals to turn around current situation on the long run (2)

- The Government remains responsible for the planning and investment promotions
  - Regulation and surveillance of E&P activities by a technical committee to protect and preserve natural gas reserves and local environment
- Independent regulatory body with clear mandates that protect customers
  - Industry-wide competitive contractual terms
  - Appropriate natural gas price formula until sufficient internal competition has been developed
  - Secure national supply at competitive prices before exporting natural gas
- Clear legal and regulatory framework

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#### A thorough energy reform would create important direct and indirect benefits

- 1.5-2.0% GDP growth
- Annual direct investments of US\$10 Billion generating over 40,000 permanent job opportunities
- Virtuous cycle that would generate 300 thousand job opportunities and additional investment for US\$ 10 billion per year

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- Greenhouse emissions reduction by approx. 160 kton/year
- Imports that allow people to become employed and attract investments somewhere else are avoided
- Local development and fight against poverty

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