

The Energy Council 2001 Global Energy and Environmental Issues Conference

Gas and Power Growth in Mexico: a North American Perspective

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Mexico at the Crossroads



• FISCAL REFORM

• Increase tax revenues

Lower oil tax (35-40%)

Increase social spending

• FINANCIAL REFORM

Increase savings

Increase investment

• ENERGY REFORM

 Increase & secure energy supplies

 Increase infrastructure investment

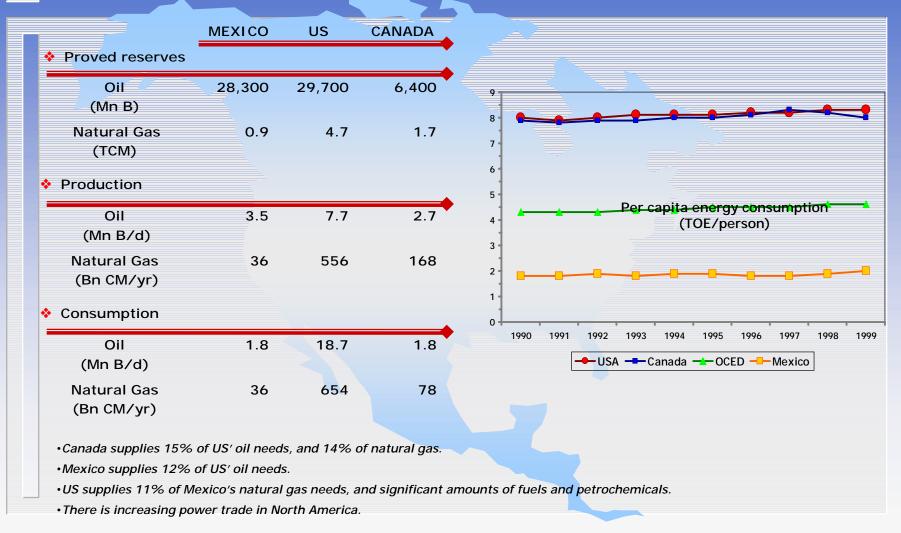
• ENVIRONMENTAL PROTECTION

• Clean-up

Prevention

Enforcement

North American Energy Background



Energy reforms in Mexico (1992-1995)

General objectives:

- ♦ Allow private investment in power generation and natural gas (transmission, distribution and storage).
- ♦ Overcome lagging energy infrastructure and bottlenecks.
- ♦ Promote electricity development and gas use in industry, power generation and houses.
- ♦ Substitute for dirty fuels.

Legal Institutional Reforms

- Electricity laws (self-supply, "IPP", cogen, small-scale, import-export)
- Gas regulations (transmission, distribution & storage)
- Energy Regulatory Commission

Outcome (1995 - 2001)

- New gas industry and markets
- ➤ More than 50 private companies (domestic and foreign) are active in gas and electricity projects.
- ➤ Natural gas infrastructure has expanded greatly. Significant private power generation projects have been completed.

Electricity

- 175 permits
- 15,779 MW new capacity authorized by the CRE (+/- US\$ 9.0 bn)
- 1,546 MW operating (excluding "IPP's and PEMEX)

Natural Gas

- 103 permits (21 distribution and 82 transportation)
- 39,766 Km of pipelines
- Investment commitments for US \$2.2 bn



National Pipeline System is fully regulated (MOA, regulated rates, SCADA, safety & efficiency)

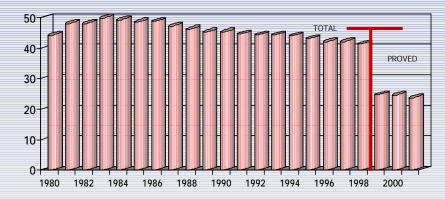
New actors, more competition, and more energy supplies to new users (e.g., LDC's customers and power self-suppliers)

Further reforms on LPG and power are under discussion

However, serious problems remain...

Diminishing oil reserves (lack of exploration & new methodology: 23.7 bn bbl

 excluding condensates)



Increasing energy imports:

11% of natural gas

29% of LPG

26% of gasoline

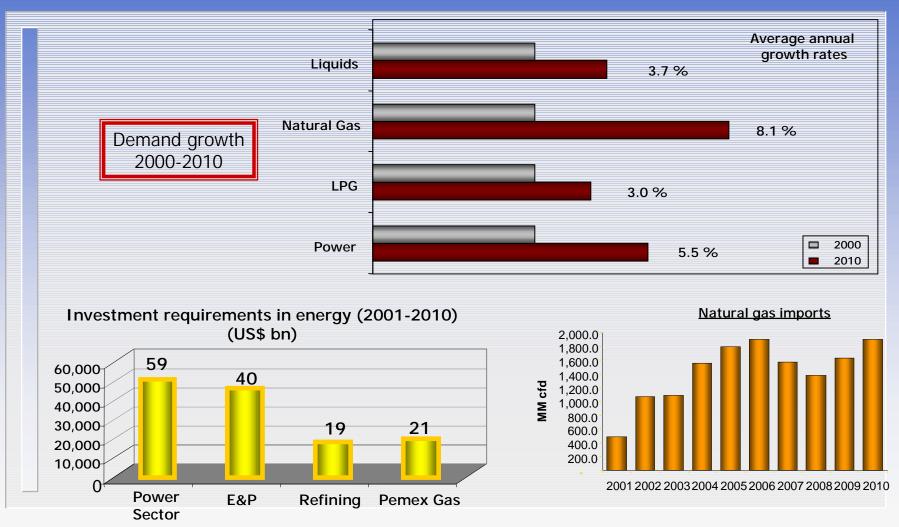
20% of fuel oil

US\$ 5 bn trade deficit in petrochemicals

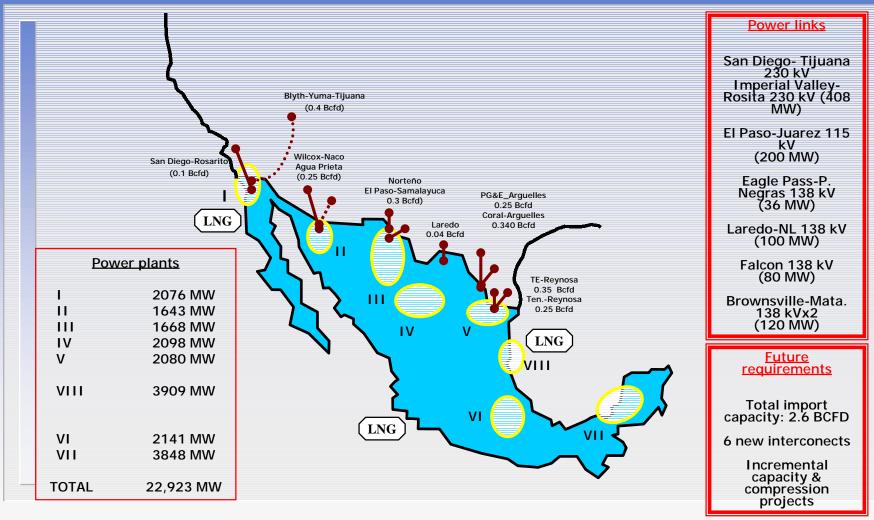
◆Power capacity under construction could meet 2005 demand, but gas transmission and supplies are uncertain.

- ✓ Inadequate electricity reforms have limited "real" independent private generation (e.g. only state utility can buy power, purchase price biased, unavailable transmission, etc.)
- ✓ International bids imply state warranties and contingent public debt (PIDIREGAS for energy sector investment represent +/- 60 bn).

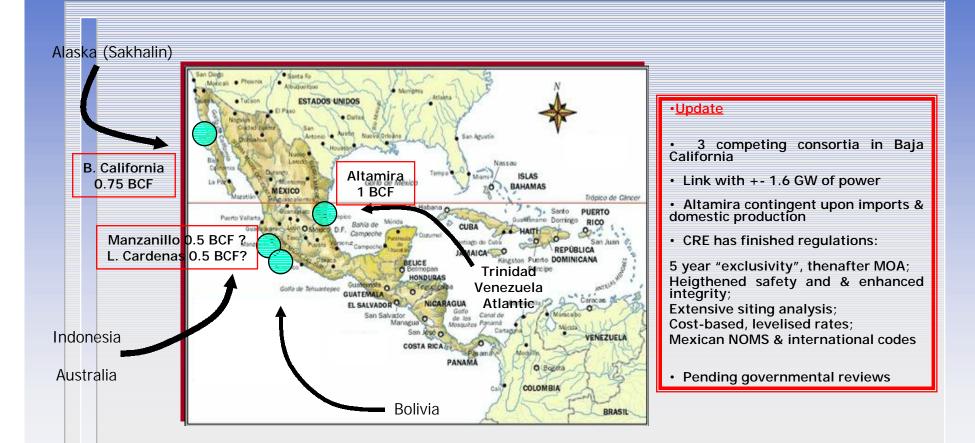
Growth, investment, and gas imports



Power - Gas: links, pipes & loads



LNG in Mexico



CONCLUSIONS

- *Energy reforms in Mexico are contributing to new gas infrastructure and convergence in gas & power development.
- *Increased private investment and more interconnections accompanied by regulatory coherence across North America. At the same time, energy policies respond to national priorities.
- *Cross-border energy trade and interconnections will expand significantly.
- *Coordination is necessary to deal with contingencies, siting, permitting, energy corridors, PR, data requirements, etc.
- *To insure adequate energy supplies in a competitive environment, Mexico needs wider and deeper structural reforms in the energy sector. CRE contribution to these goals will be as important as ever.