

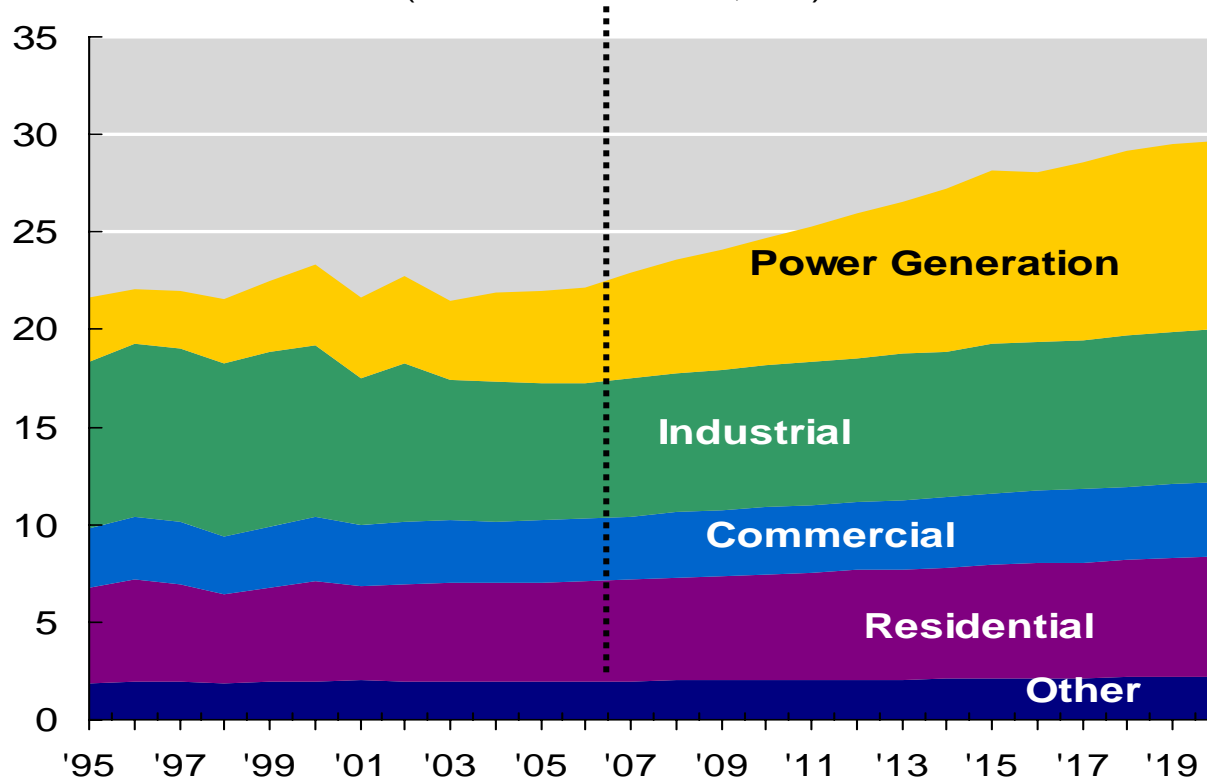


America's Natural Gas Market Challenge

American Gas Association
2005

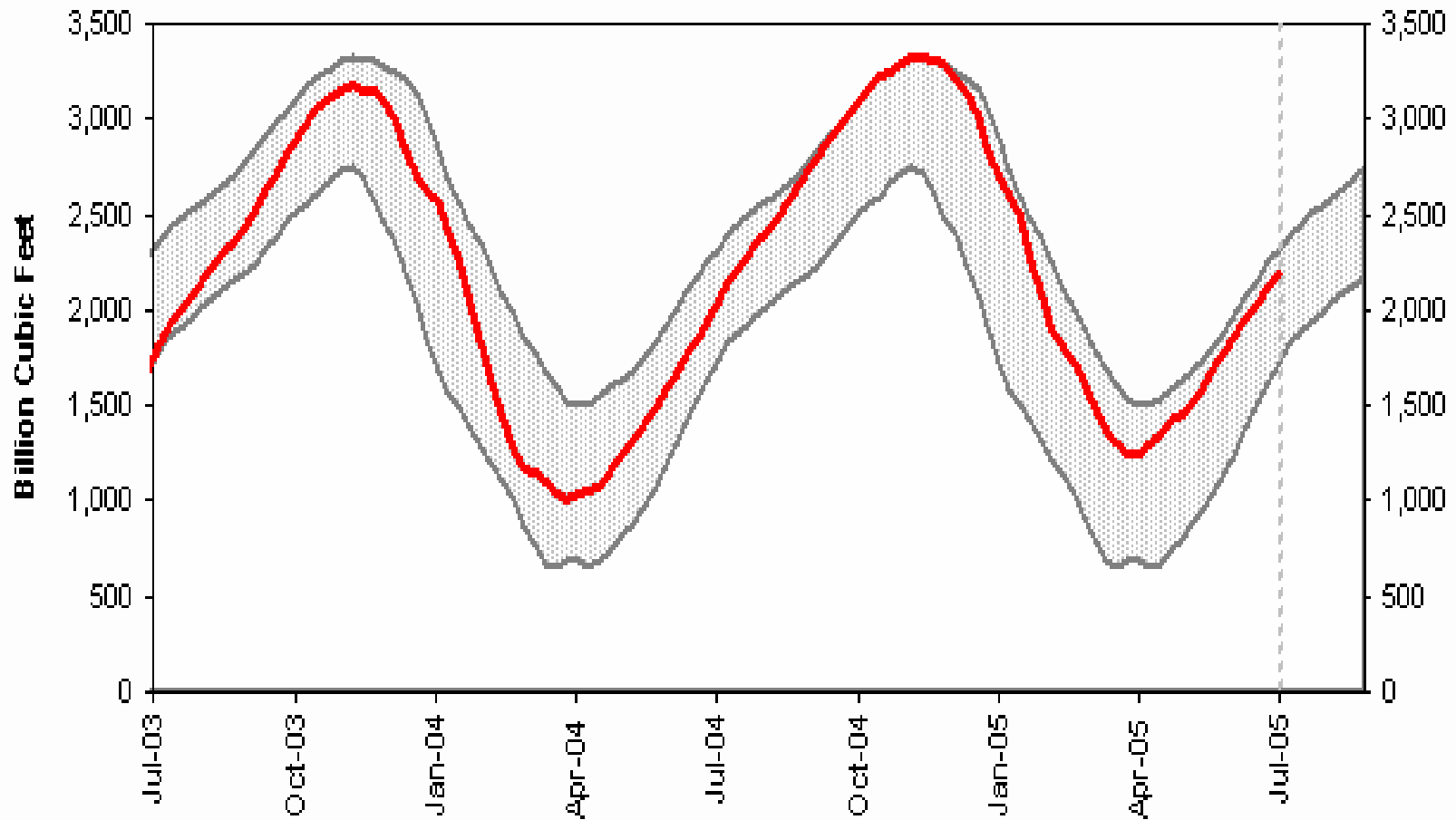
Gas Demand Outlook

Gas Consumption
(Trillion Cubic Feet, Tcf)



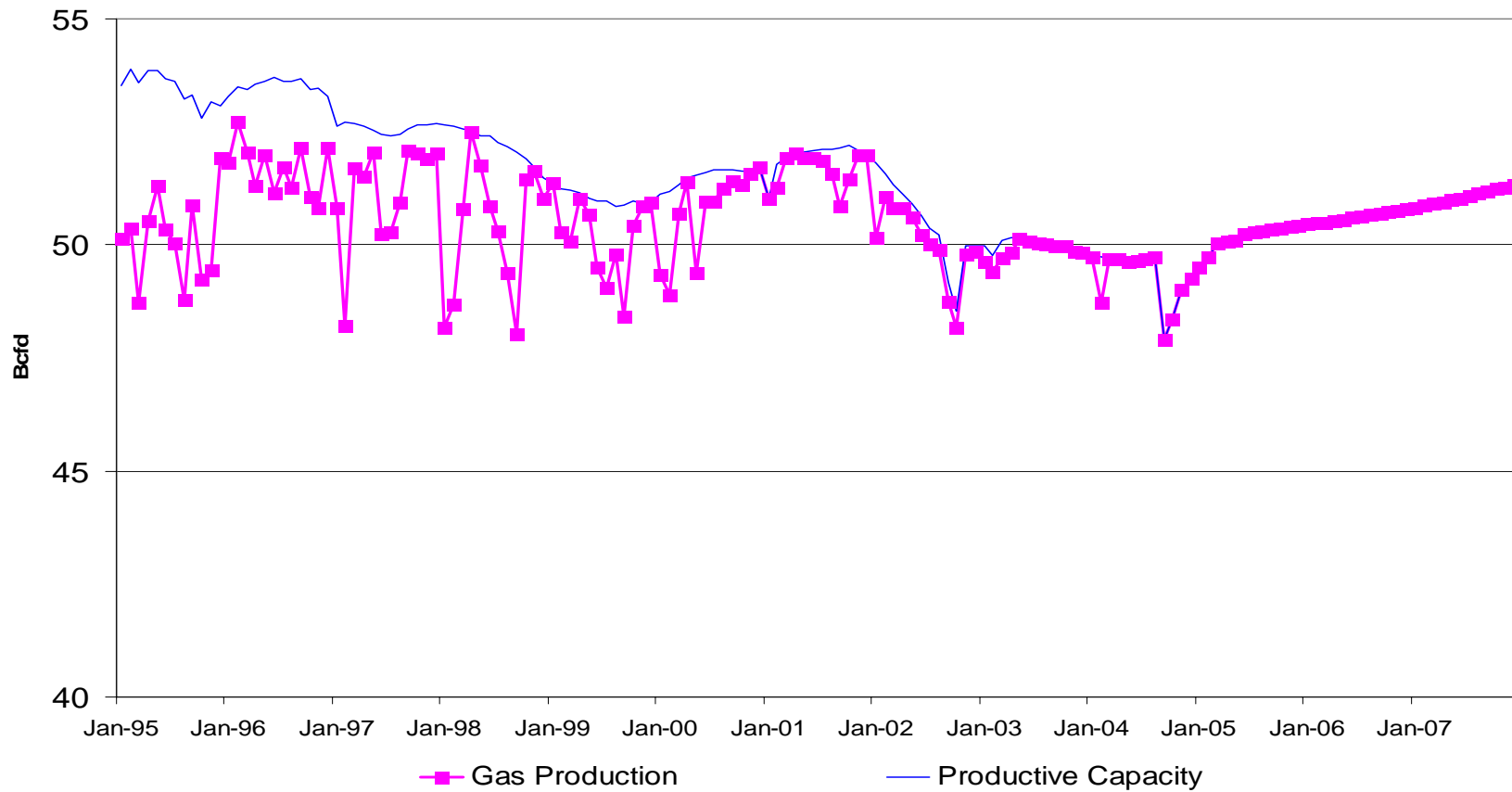
Source: Energy and Environmental Analysis (EEA)

Working Gas in Underground Storage Compared With 5-Year Range (EIA)



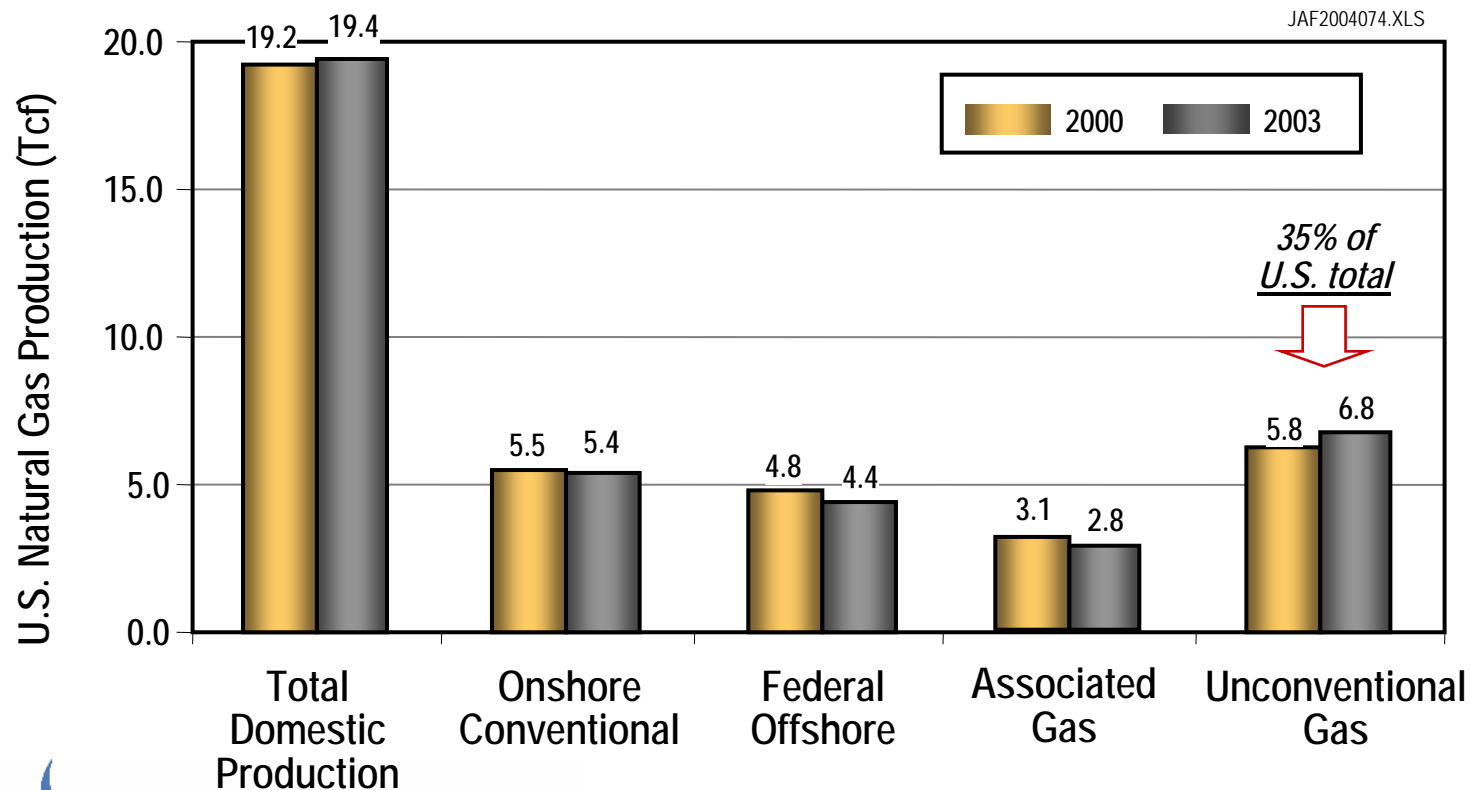
Lower-48 Dry Gas Production vs. Dry Gas Productive Capacity

Source: Energy and Environmental Analysis, Inc.



STATUS OF U.S. UNCONVENTIONAL GAS PRODUCTION

In the past three years, unconventional gas has helped maintain U.S. production and now accounts for 35% of U.S. natural gas supplies.

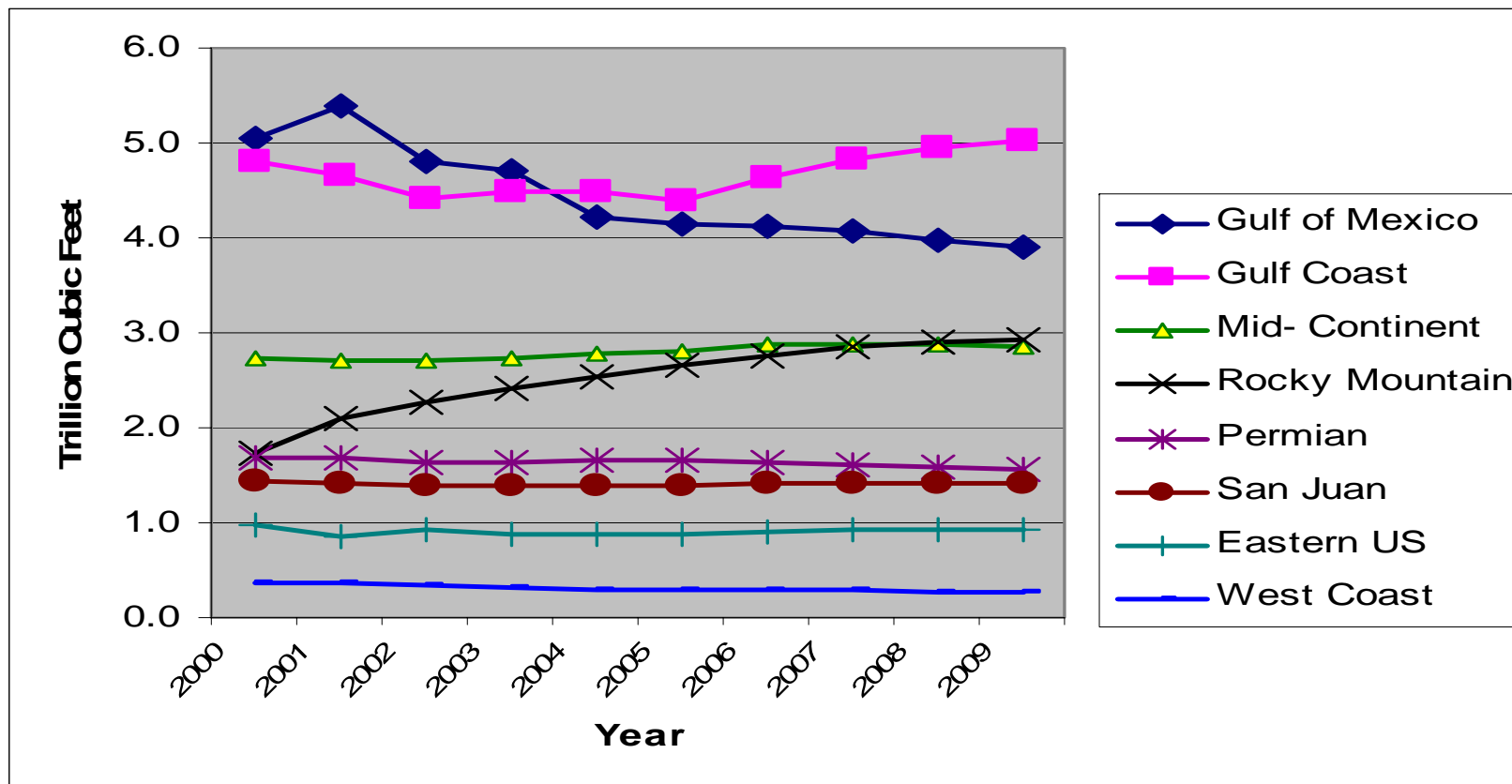


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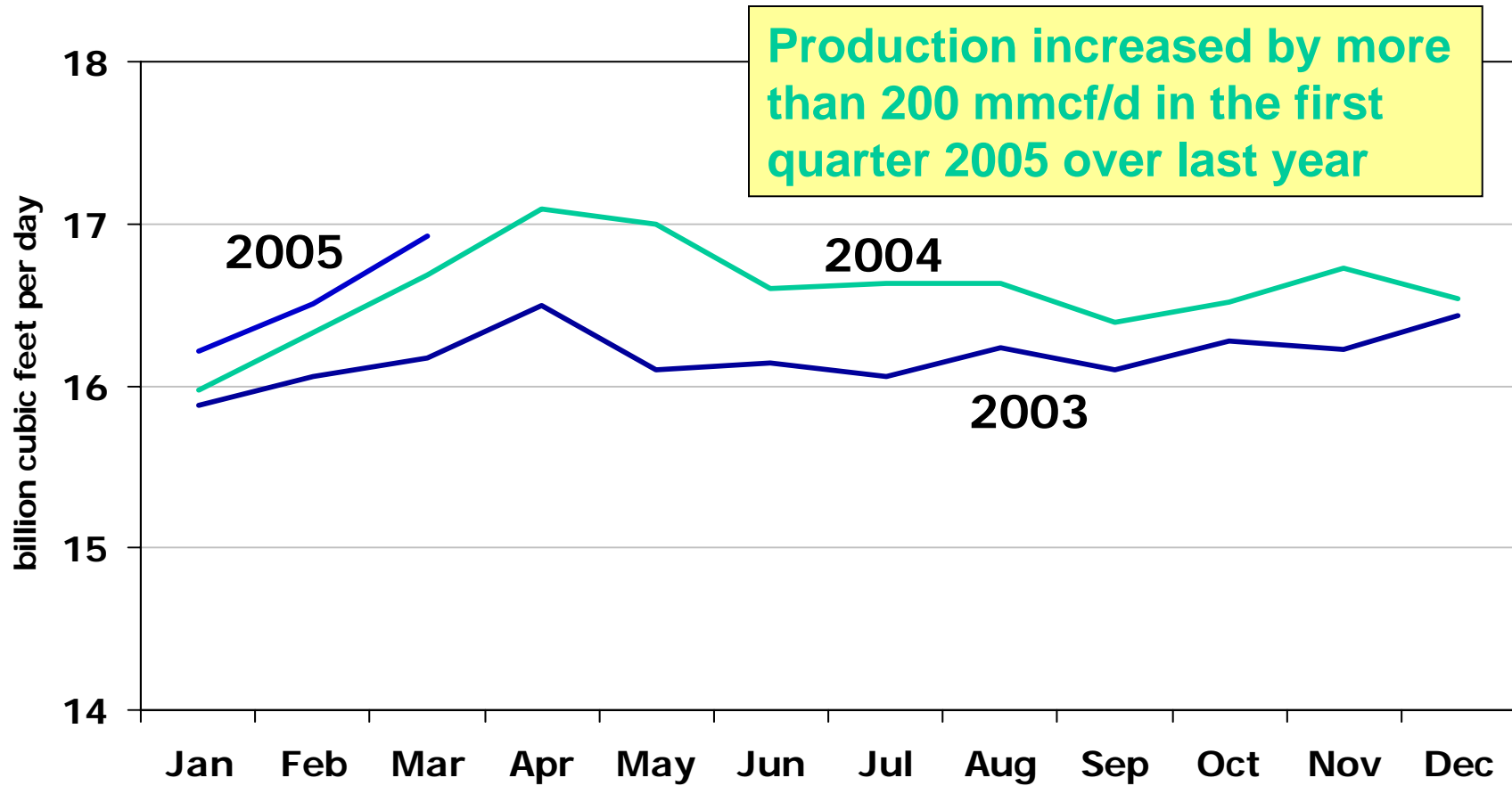
- Conventional/Offshore – EIA Annual Reserve Reports.
- Unconventional – Advanced Resources International data base.



Lower-48 Annual Gas Production By Region 2000-2009



Western Canada Natural Gas Production



Source: FirstEnergy Capital

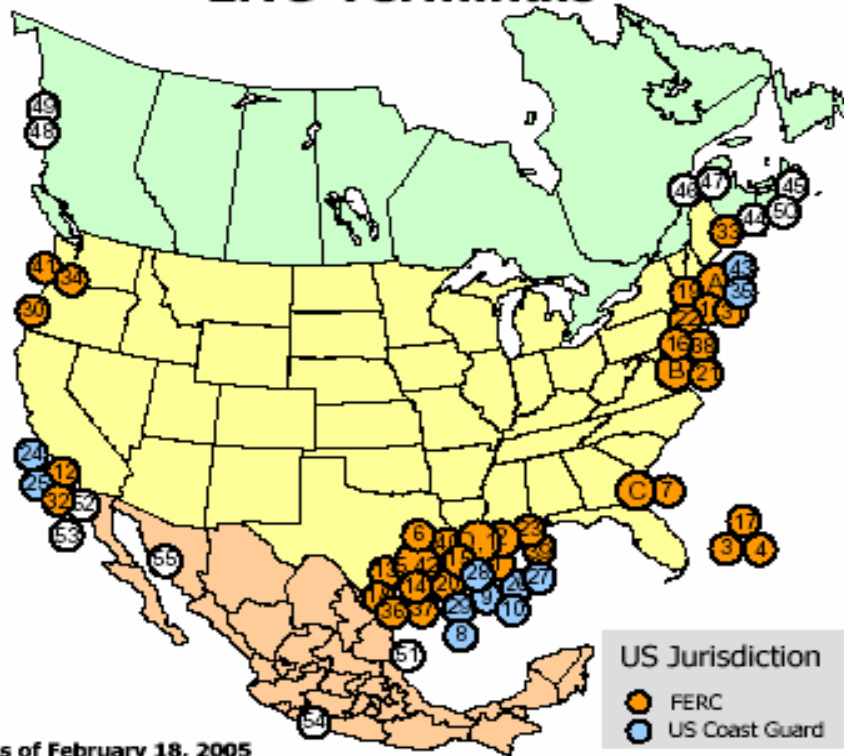
New Supply Must Come From New Areas...

...But Will Only Come at a Price that Supports Development.



FERC

Existing, Proposed and Potential North American LNG Terminals



As of February 18, 2005

* US pipeline approved; LNG terminal pending in Bahamas
** These projects have been approved by the Mexican and Canadian authorities

Office of Energy Projects

Constructed

- A. Everett, MA : 1.035 Bcfd (Tractebel - DOMAC)
- B. Cove Point, MD : 1.0 Bcfd (Dominion - Cove Point LNG)
- C. Elba Island, GA : 0.68 Bcfd (El Paso - Southern LNG)
- D. Lake Charles, LA : 1.0 Bcfd (Southern Union - Trunkline LNG)

Approved by FERC

- 1. Lake Charles, LA: 1.1 Bcfd (Southern Union - Trunkline LNG)
- 2. Hackberry, LA : 1.5 Bcfd, (Sempia Energy)
- 3. Bahamas : 0.84 Bcfd, (AES Ocean Express)**
- 4. Bahamas : 0.83 Bcfd, (Calypso Tractebel)**
- 5. Freeport, TX : 1.5 Bcfd, (Cheniere/Freeport LNG Dev.)
- 6. Sabine, LA : 2.6 Bcfd (Cheniere LNG)
- 7. Elba Island, GA: 0.94 Bcfd (El Paso - Southern LNG)

Approved by MARAD/Coast Guard

- 8. Port Pelican: 1.6 Bcfd, (Chevron Texaco)
- 9. Gulf of Mexico: 0.5 Bcfd, (El Paso Energy Bridge GOM, LLC)
- 10. Louisiana Offshore : 1.0 Bcfd (Gulf Landing - Shell)

Proposed to FERC

- 11. Fall River, MA : 0.8 Bcfd, (Weaver's Cove Energy/Hess LNG)
- 12. Long Beach, CA : 0.7 Bcfd, (Mitsubishi/ConocoPhillips - Sound Energy Solutions)
- 13. Corpus Christi, TX : 2.6 Bcfd, (Cheniere LNG)
- 14. Corpus Christi, TX : 1.0 Bcfd (Vista Del Sol - ExxonMobil)
- 15. Sabine, TX : 1.0 Bcfd (Golden Pass - ExxonMobil)
- 16. Logan Township, NJ : 1.2 Bcfd (Crown Landing LNG - BP)
- 17. Bahamas : 0.5 Bcfd, (Seafarer - El Paso/PPL)
- 18. Corpus Christi, TX : 1.0 Bcfd (Ingleside Energy - Occidental Energy Ventures)
- 19. Providence, RI : 0.5 Bcfd (Keyspan & BG LNG)
- 20. Port Arthur, TX: 1.5 Bcfd (Sempia)
- 21. Cove Point, MD : 0.8 Bcfd (Dominion)
- 22. LI Sound, NY: 1.0 Bcfd (Broadwater Energy - TransCanada/Shell)
- 23. Pascagoula, MS: 1.0 Bcfd (Gulf LNG Energy LLC)

Proposed to MARAD/Coast Guard

- 24. California Offshore: 1.5 Bcfd (Cabrillo Port - BHP Billiton)
- 25. So. California Offshore : 0.5 Bcfd, (Crystal Energy)
- 26. Louisiana Offshore : 1.0 Bcfd (Main Pass McMoran Exp.)
- 27. Gulf of Mexico: 1.0 Bcfd (Compass Port - ConocoPhillips)
- 28. Gulf of Mexico: 2.8 Bcfd (Pearl Crossing - ExxonMobil)
- 29. Gulf of Mexico: 1.5 Bcfd (Beacon Port Clean Energy Terminal - ConocoPhillips)

Potential Sites Identified by Project Sponsors

- 30. Coos Bay, OR: 0.13 Bcfd, (Energy Projects Development)
- 31. Somerset, MA: 0.65 Bcfd (Somerset LNG)
- 32. California - Offshore: 0.75 Bcfd, (Chevron Texaco)
- 33. Pleasant Point, ME : 0.5 Bcfd (Quoddy Bay, LLC)
- 34. St. Helens, OR: 0.7 Bcfd (Port Westward LNG LLC)
- 35. Offshore Boston, MA: 0.8 Bcfd (Northeast Gateway - Excelerate Energy)
- 36. Galveston, TX: 1.2 Bcfd (Pelican Island - BP)
- 37. Port Lavaca, TX: 1.0 Bcfd (Calhoun LNG - Gulf Coast LNG Partners)
- 38. Philadelphia, PA: 0.6 Bcfd (Freedom Energy Center - PGW)
- 39. Pascagoula, MS: 1.3 Bcfd (ChevronTexaco)
- 40. Cameron, LA: 3.3 Bcfd (Creole Trail LNG - Cheniere LNG)
- 41. Astoria, OR: 1.0 Bcfd (Skipanon LNG - Calpine)
- 42. Freeport, TX: 1.5 Bcfd, (Cheniere/Freeport LNG Dev. - Expansion)
- 43. Offshore Boston, MA: 0.4 Bcfd (Neptune LNG - Tractebel)

Canadian Approved and Potential Terminals

- 44. St. John, NB : 1.0 Bcfd, (Canaport - Irving Oil)
- 45. Point Tupper, NS 1.0 Bcfd/d (Bear Head LNG - Anadarko)
- 46. Quebec City, QC : 0.5 Bcfd (Project Rabaska - Enbridge/Gaz Met/Gaz de France)
- 47. Rivière-du-Loup, QC: 0.5 Bcfd (Coccona Energy - TransCanada/PetroCanada)
- 48. Kitimat, BC: 0.61 Bcfd (Galveston LNG)
- 49. Prince Rupert, BC: 0.30 Bcfd (WestPac Terminals)
- 50. Goldboro, NS 1.0 Bcfd (Kebic Petrochemicals)

Mexican Approved and Potential Terminals

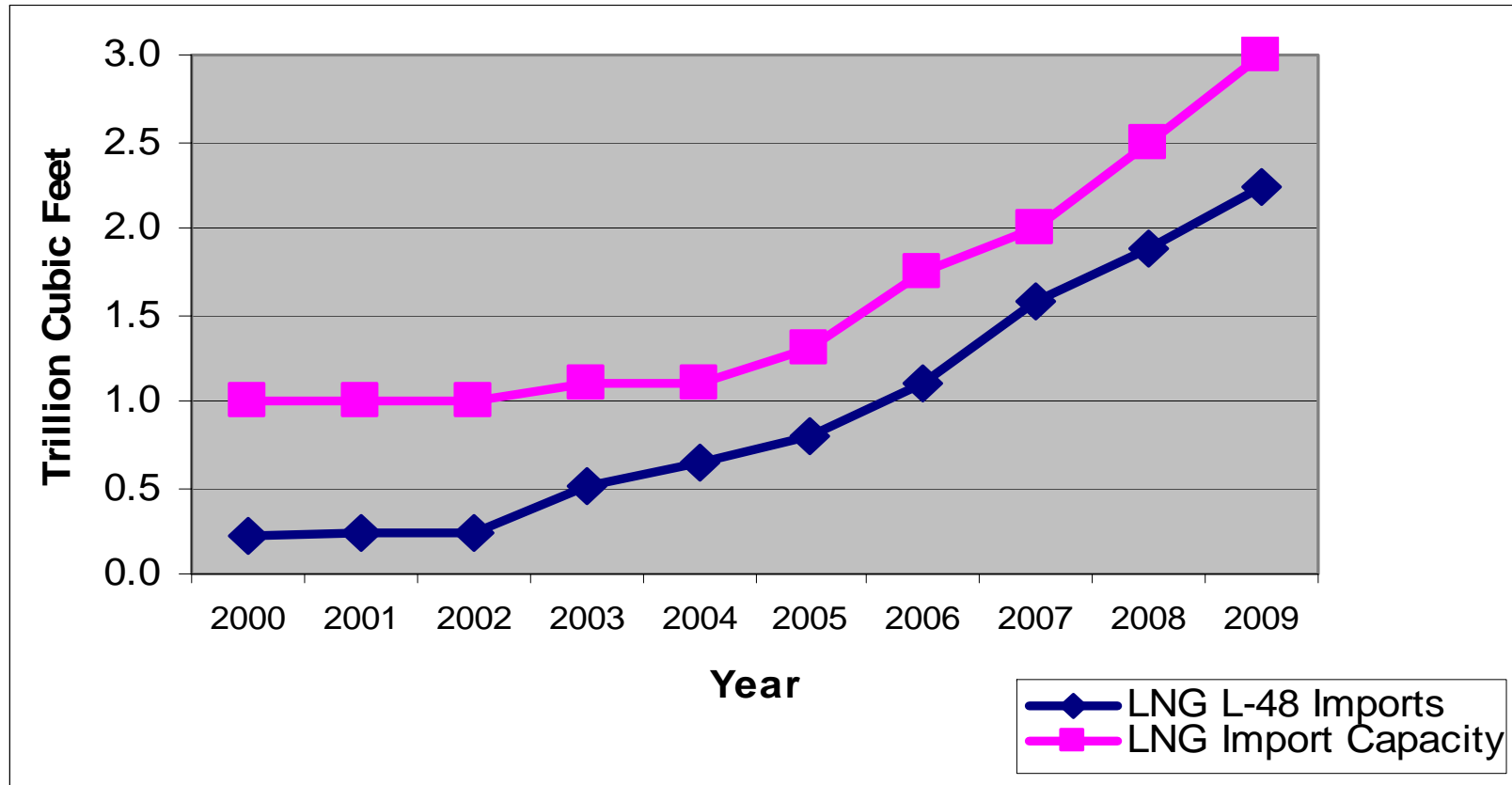
- 51. Altamira, Tamaulipas : 0.7 Bcfd, (Shell/Gaz/PSU)**
- 52. Baja California, MX : 1.0 Bcfd, (Sempia & Shell)**
- 53. Baja California - Offshore : 1.4 Bcfd, (Chevron Texaco)
- 54. Lázaro Cárdenas, MX : 0.5 Bcfd (Tractebel/Repsol)
- 55. Puerto Libertad, MX: 1.3 Bcfd (Sonora Pacific LNG)



American Gas Association



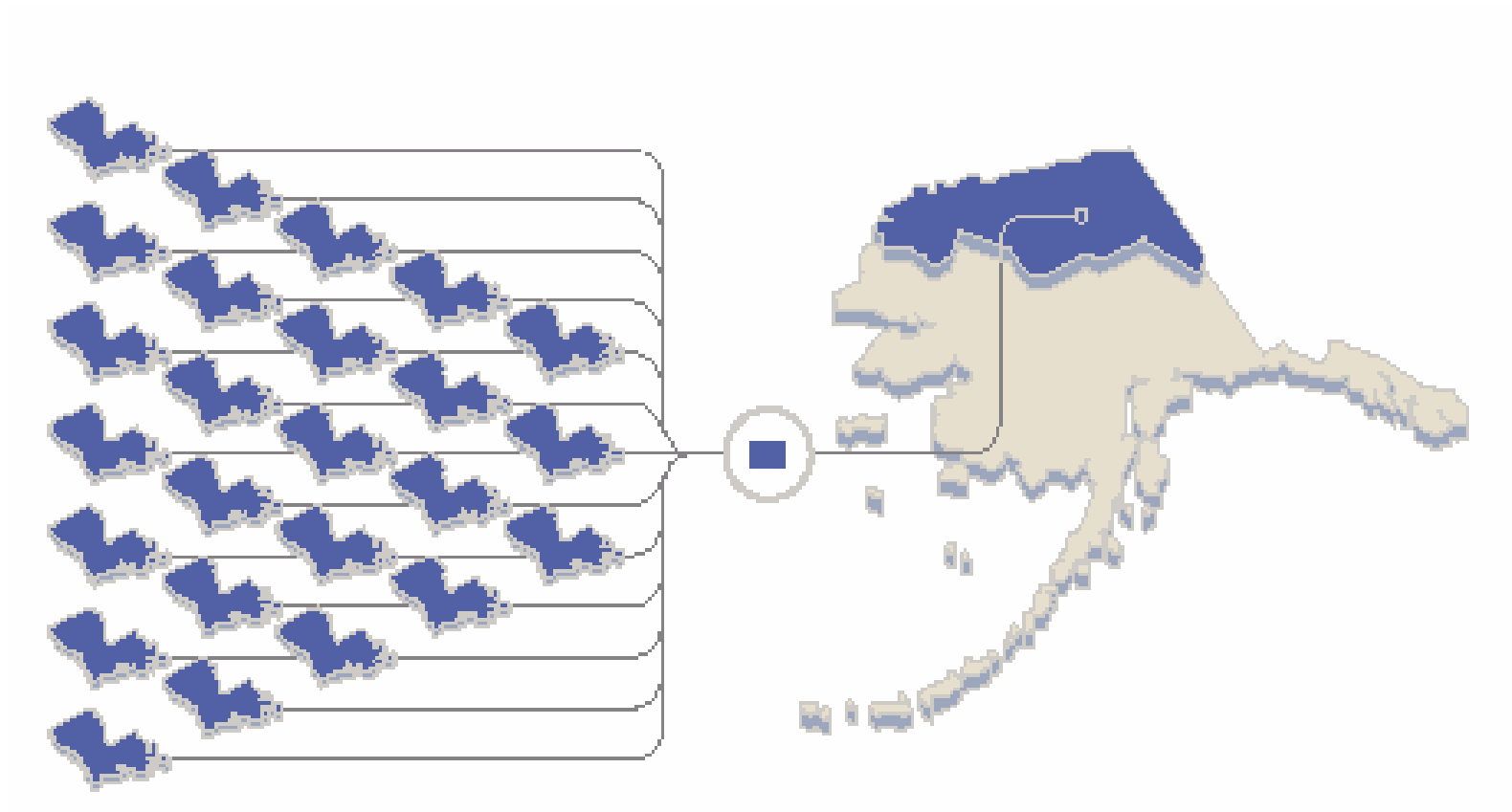
LNG Imports and Import Capacity 2000-2009



Northern Gas Market Options



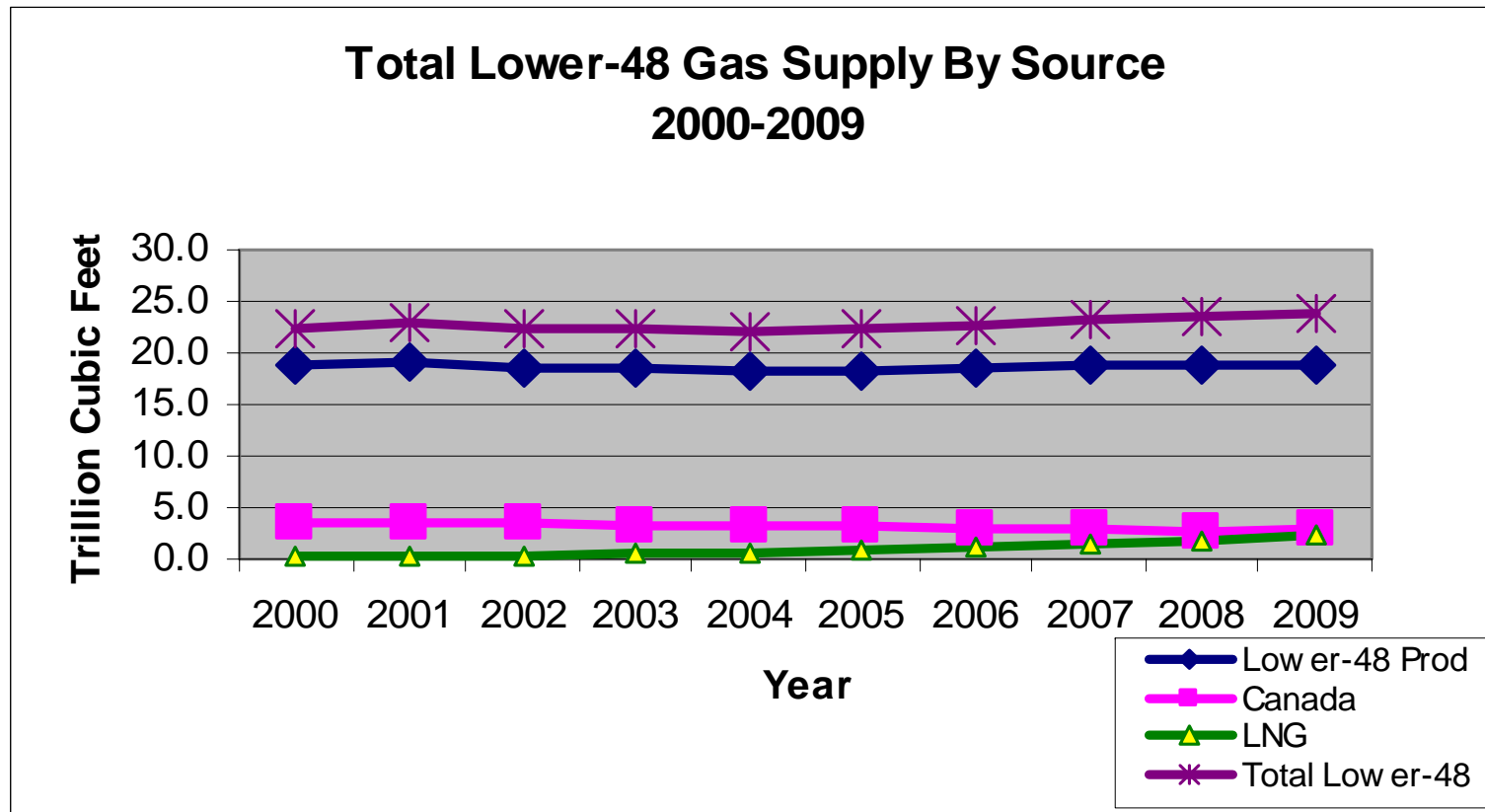
Alaska



25 years of production from onshore **Louisiana** is equivalent to proved gas reserves on the **North Slope of Alaska** alone.



Total Lower-48 Gas Supply By Source 2000-2009

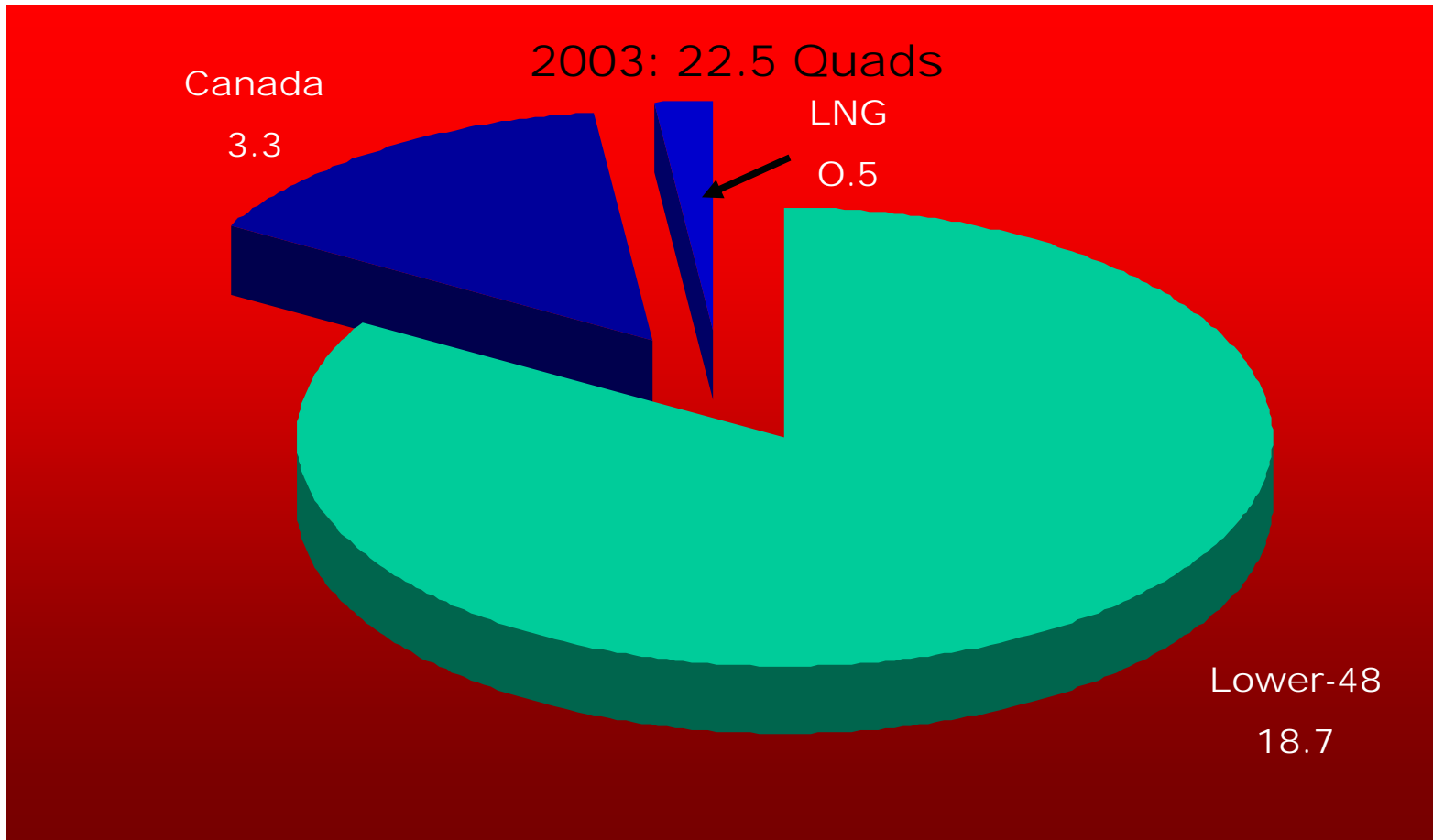


What Can We Do?

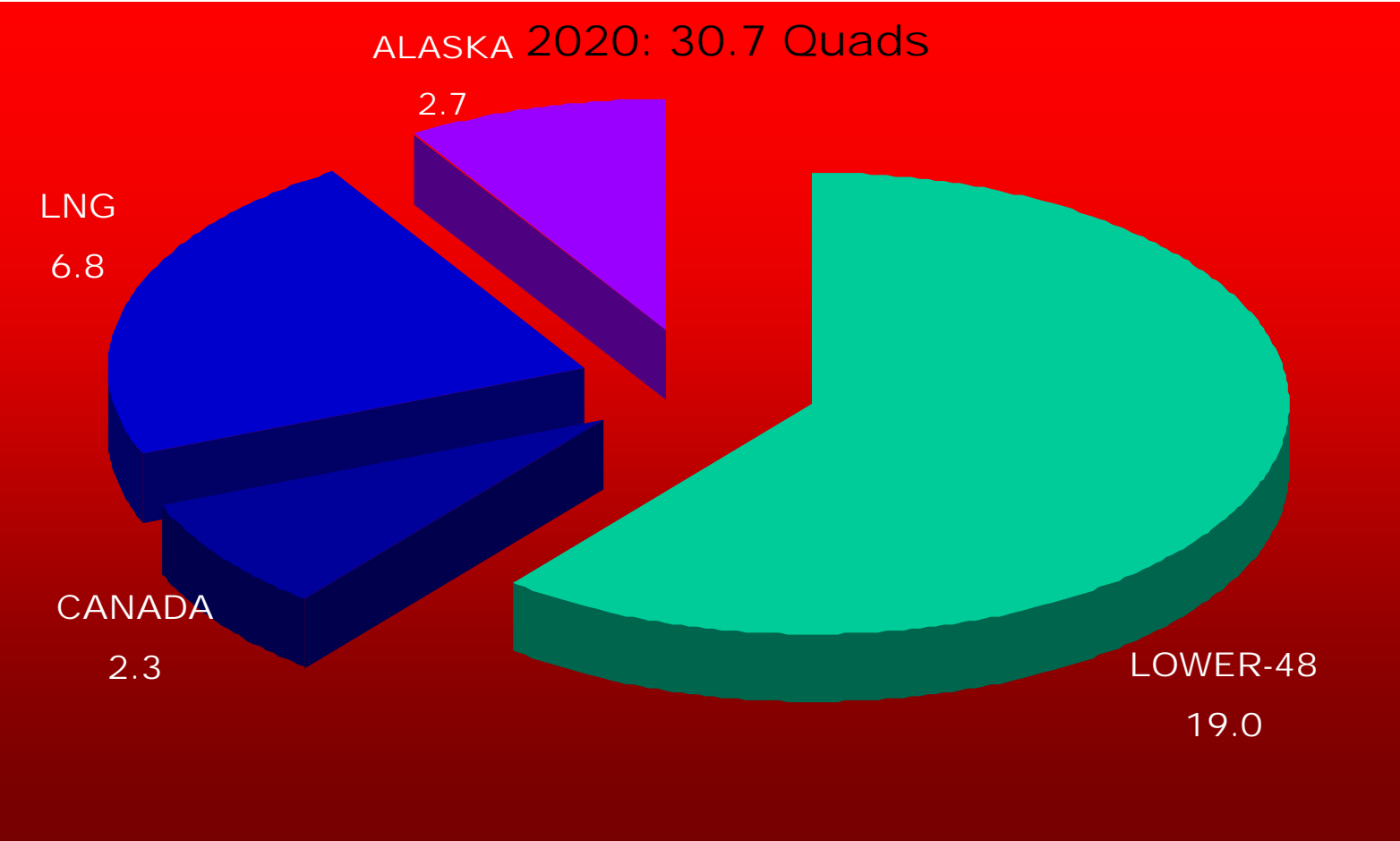
- ◆ Promote energy efficiency and conservation
- ◆ Encourage the development of storage
- ◆ Encourage balance between economic and environmental values
- ◆ Diversify sources of power generation
- ◆ Encourage Alaskan supply
- ◆ Encourage LNG supply



SOURCES OF CURRENT U.S. NATURAL GAS SUPPLY



SOURCES OF PROJECTED U.S. NATURAL GAS SUPPLY





Regarding U.S. Gas Supply and the role of LNG and/or Alaska.....

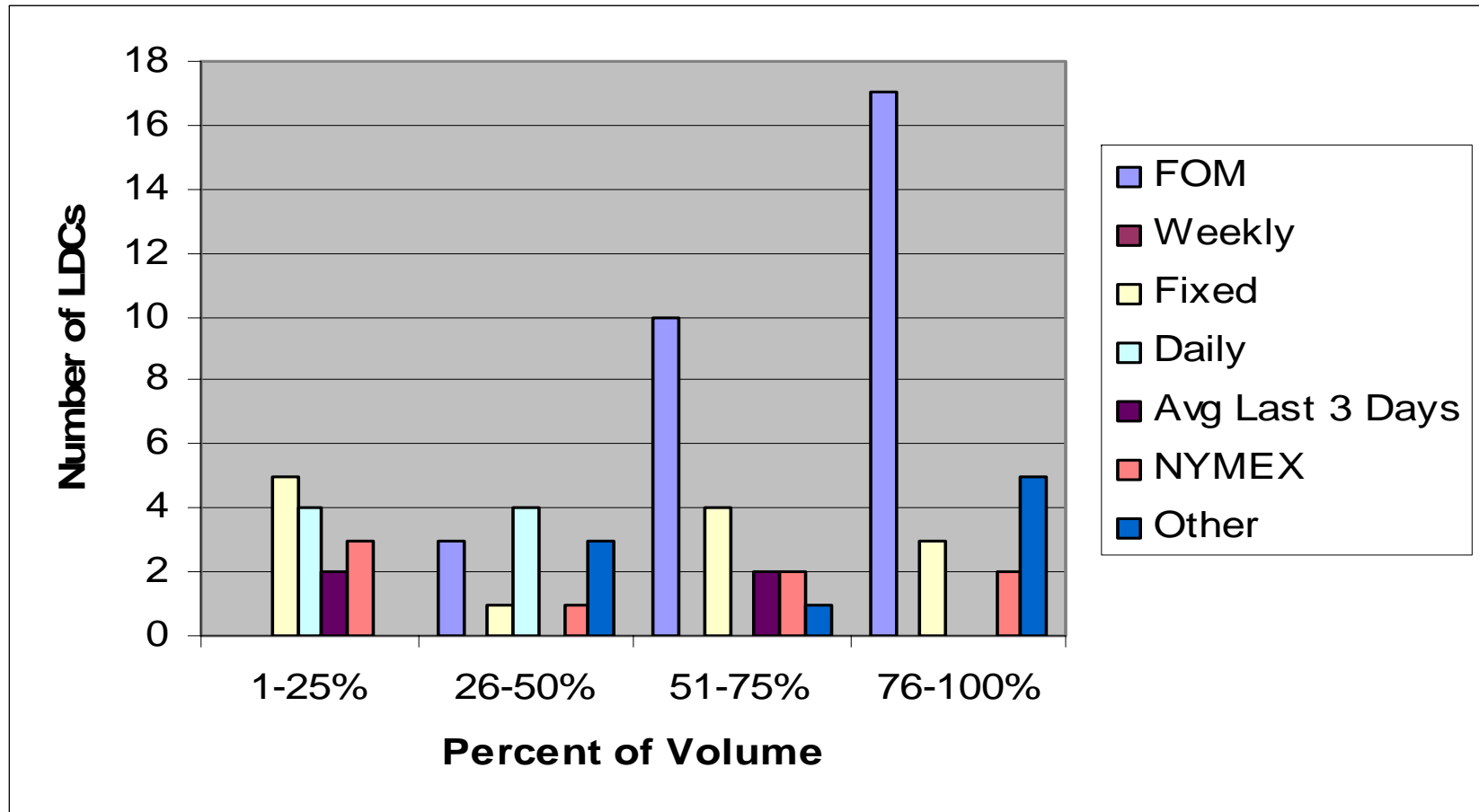
There is no Plan B!

Marie Fagan (CERA)

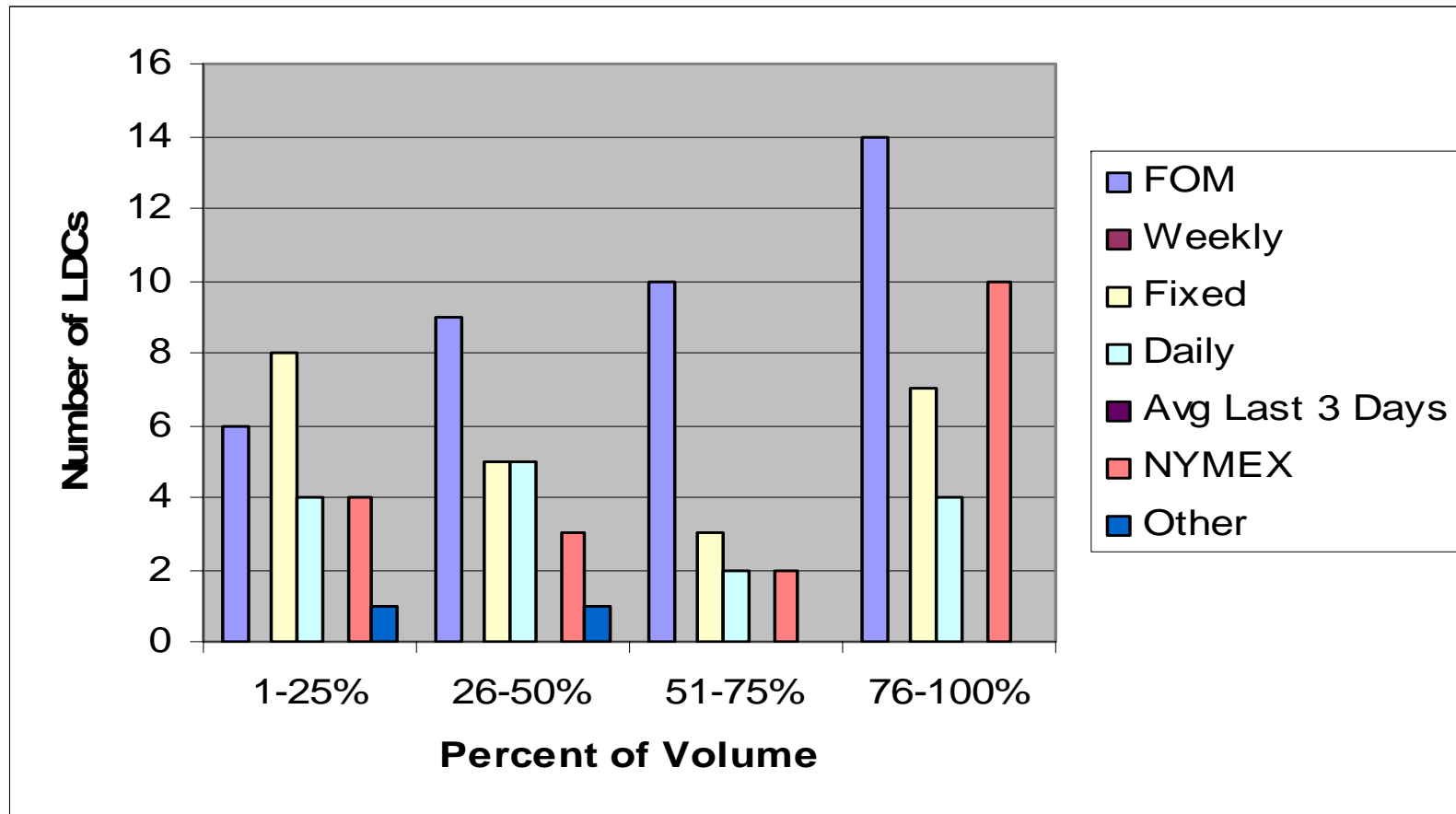
North American Gas Market

- ◆ North American supply/demand balance is and will remain tight.
 - ◆ Gas consumption grows.
 - ◆ “New frontier” gas supplies are necessary and take time.
- ◆ Gas prices remain relatively high.
 - ◆ High levels of gas price volatility continue.
 - ◆ LNG imports become an important player in natural gas pricing.

LDC Long-term Pricing Mechanisms 2004-05 Winter (49 LDCs)



LDC Mid-term Pricing Mechanisms 2004-05 Winter (52 LDCs)





Thank You!