

OFFSHORE LNG TERMINAL ISSUES

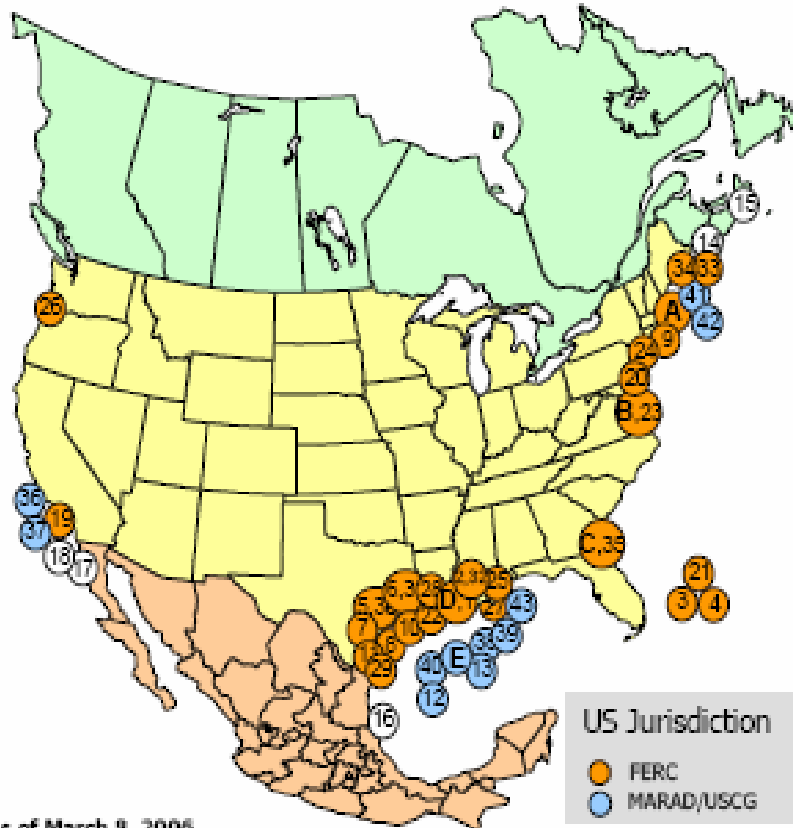


- (Photo courtesy of www.lngoneworld.com)

Why Offshore?

- No Neighbors
- Safety Issues
- Security (Terrorist Threat)

Existing and Proposed North American LNG Terminals



As of March 8, 2006

* US pipeline approved; LNG terminal pending in Bahamas

Office of Energy Projects

CONSTRUCTED

- A. Everett, MA : 1.035 Bcf/d (SUEZ/Tractebel - DOMAC)
- B. Cove Point, MD : 1.0 Bcf/d (Dominion - Cove Point LNG)
- C. Elba Island, GA : 1.2 Bcf/d (El Paso - Southern LNG)
- D. Lake Charles, LA : 1.5 Bcf/d (Southern Union - Trunkline LNG)
- E. Gulf of Mexico: 0.5 Bcf/d (Gulf Gateway Energy Bridge - Excalante Energy)

APPROVED BY FERC

- 1. Lake Charles, LA: 0.6 Bcf/d (Southern Union - Trunkline LNG)
- 2. Hackberry, LA : 1.5 Bcf/d (Cameron LNG - Sempra Energy)
- 3. Bahamas : 0.84 Bcf/d (AES Ocean Express)*
- 4. Bahamas : 0.83 Bcf/d (Calypso Tractebel)*
- 5. Freeport, TX : 1.5 Bcf/d (Cheniere/Freeport LNG Dev.)
- 6. Sabine, LA : 2.6 Bcf/d (Cheniere LNG)
- 7. Corpus Christi, TX: 2.6 Bcf/d (Cheniere LNG)
- 8. Corpus Christi, TX : 1.0 Bcf/d (Vista Del Sol - ExxonMobil)
- 9. Fall River, MA : 0.8 Bcf/d (Weaver's Cove Energy/Hess LNG)
- 10. Sabine, TX : 1.0 Bcf/d (Golden Pass - ExxonMobil)
- 11. Corpus Christi, TX: 1.0 Bcf/d (Ingersoll Energy - Occidental Energy Ventures)

APPROVED BY MARAD/COAST GUARD

- 12. Port Pelicans: 1.6 Bcf/d (Chevron Texaco)
- 13. Louisiana Offshore : 1.0 Bcf/d (Gulf Landing - Shell)

CANADIAN APPROVED TERMINALS

- 14. St. John, NB : 1.0 Bcf/d (Canaport - Irving Oil)
- 15. Point Tupper, NS: 1.0 Bcf/d (Bear Head LNG - Anadarko)

MEXICAN APPROVED TERMINALS

- 16. Altamira, Tamulipas : 0.7 Bcf/d, (Shell/Totals/Mitsui)
- 17. Baja California, MX : 1.0 Bcf/d, (Energy Costa Azul - Sempra)
- 18. Baja California - Offshore : 1.4 Bcf/d, (Chevron Texaco)

PROPOSED TO FERC

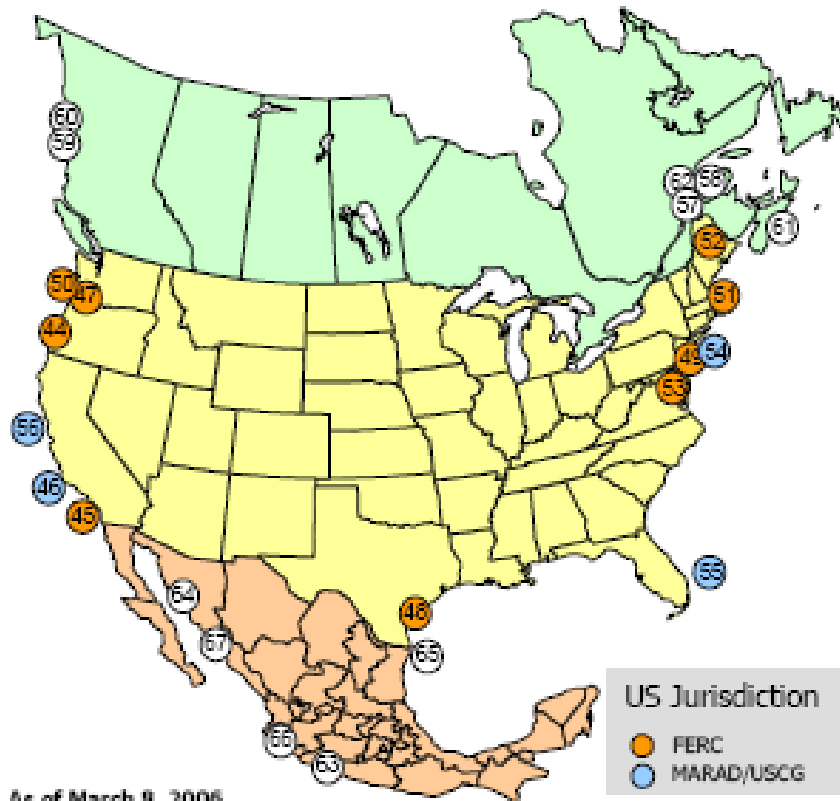
- 19. Long Beach, CA : 0.7 Bcf/d, (Mitsubishi/ConocoPhillips - Sourd Energy Solutions)
- 20. Logan Township, NJ : 1.2 Bcf/d (Crown Landing LNG - BP)
- 21. Bahamas : 0.5 Bcf/d, (Seafarer - El Paso/PPL)
- 22. Port Arthur, TX: 1.5 Bcf/d (Sempra)
- 23. Cove Point, MD : 0.8 Bcf/d (Dominion)
- 24. LI Sound, NY: 1.0 Bcf/d (Broadwater Energy - TransCanada/Shell)
- 25. Pascagoula, MS: 1.0 Bcf/d (Gulf LNG Energy LLC)
- 26. Bradwood, OR: 1.0 Bcf/d (Northern Star LNG - Northern Star Natural Gas LLC)
- 27. Pascagoula, MS: 1.3 Bcf/d (Casotte Landing - ChevronTexaco)
- 28. Cameron, LA: 3.3 Bcf/d (Cresco Trail LNG - Cheniere LNG)
- 29. Port Lavaca, TX: 1.0 Bcf/d (Calhoun LNG - Gulf Coast LNG Partners)
- 30. Freeport, TX: 2.5 Bcf/d (Cheniere/Freeport LNG Dev. - Expansion)
- 31. Sabine, LA : 1.4 Bcf/d (Cheniere LNG - Expansion)
- 32. Hackberry, LA : 1.15 Bcf/d (Cameron LNG - Sempra Energy - Expansion)
- 33. Pleasant Point, ME : 0.5 Bcf/d (Quectly Bay, LLC)
- 34. Robbinston, ME: 0.5 Bcf/d (Downeast LNG - Kestrel Energy)
- 35. Elba Island, GA: 0.9 Bcf/d (El Paso - Southern LNG)

PROPOSED TO MARAD/COAST GUARD

- 36. California Offshore: 1.5 Bcf/d (Cabrillo Port - BHP Billiton)
- 37. So. California Offshore : 0.5 Bcf/d, (Crystal Energy)
- 38. Louisiana Offshore : 1.0 Bcf/d (Main Pass McMoran Exp.)
- 39. Gulf of Mexico: 1.0 Bcf/d (Compass Port - ConocoPhillips)
- 40. Gulf of Mexico: 1.5 Bcf/d (Seacon Port Clean Energy Terminal - ConocoPhillips)
- 41. Offshore Boston, MA: 0.4 Bcf/d (Neptune LNG - Tractebel)
- 42. Offshore Boston, MA: 0.8 Bcf/d (Northeast Gateway - Excalante Energy)
- 43. Gulf of Mexico: 1.4 Bcf/d (Sierrville Offshore Energy Terminal - TORP Technology)

FERC

Potential North American LNG Terminals



As of March 9, 2006

POTENTIAL U.S. SITES IDENTIFIED BY PROJECT SPONSORS

- 44. Coos Bay, OR: 0.13 Bcf/d (Energy Projects Development)
- 45. Offshore California: 0.75 Bcf/d (Chevron Texaco)
- 46. Offshore California: 0.75 Bcf/d (OceanWay - Woodside Natural Gas)
- 47. St. Helens, OR: 0.7 Bcf/d (Port Westward LNG LLC)
- 48. Galveston, TX: 1.2 Bcf/d (Pelican Island - BP)
- 49. Philadelphia, PA: 0.6 Bcf/d (Freedom Energy Center - FGC)
- 50. Astoria, OR: 1.0 Bcf/d (Skipanon LNG - Calpine)
- 51. Boston, MA: 0.8 Bcf/d (AES Battery Rock LLC - AES Corp.)
- 52. Calais, ME: 7 Bcf/d (BP Consulting LLC)
- 53. Baltimore, MD: 1.5 Bcf/d (AES Sparrows Point - AES Corp.)
- 54. Offshore New York: 2.0 Bcf/d (Safe Harbor Energy - ASOC, LLC)
- 55. Offshore Florida: 7 Bcf/d (Calypso SUEZ)
- 56. Offshore California: 0.6 Bcf/d (Pacific Gateway - Accelerate Energy)

POTENTIAL CANADIAN SITES IDENTIFIED BY PROJECT SPONSORS

- 57. Quebec City, QC: 0.5 Bcf/d (Project Rabaska - Enbridge/Gaz Met/Gaz de France)
- 58. Rivière-du-Loup, QC: 0.5 Bcf/d (Cocoon Energy - TransCanada/PetroCanada)
- 59. Kitimat, BC: 0.61 Bcf/d (Galveston LNG)
- 60. Prince Rupert, BC: 0.30 Bcf/d (WestPac Terminals)
- 61. Goldboro, NS: 1.0 Bcf/d (Kalic Petrochemicals)
- 62. Énergie Grande-Anse QC: 1.0 Bcf/d

POTENTIAL MEXICAN SITES IDENTIFIED BY PROJECT SPONSORS

- 63. Lázaro Cárdenas, MX: 0.5 Bcf/d (Tractebel/Repsol)
- 64. Puerto Libertad, MX: 1.3 Bcf/d (Sonora Pacific LNG)
- 65. Offshore Gulf, MX: 1.0 Bcf/d (Dorado - Tidelands)
- 66. Manzanillo, MX: 0.5 Bcf/d
- 67. Topolobampo, MX: 0.5 Bcf/d

Office of Energy Projects

Issues for Discussion

- Which Model to use?
- Meteorological Data
- Emissions
 - Vessel
 - Support equipment and vessels
 - Operational
 - Other

Other Issues

- How do we define Ambient Air?
- Construction
- Class I Area Concerns