



The EXPORT threat

LNG development and US natural gas exports

"Within the next five years, the US could become a major natural gas exporter in the form of LNG. It already produces a daily 57 billion cubic feet a day of natural gas. Selling a mere 10% of that abroad would make it the largest LNG exporter in the world."

Tony D'Altorio, Investment U 10/2010

Monica Vaughan
Friends of Living Oregon Waters
Pacific Environment





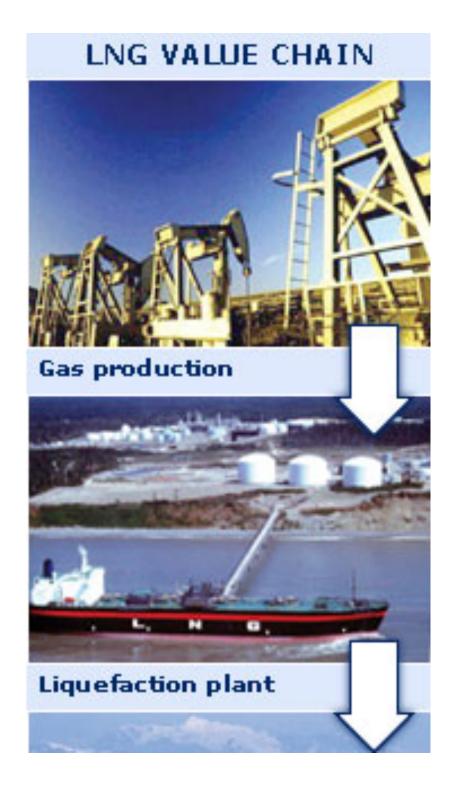






Impacts of exporting via LNG

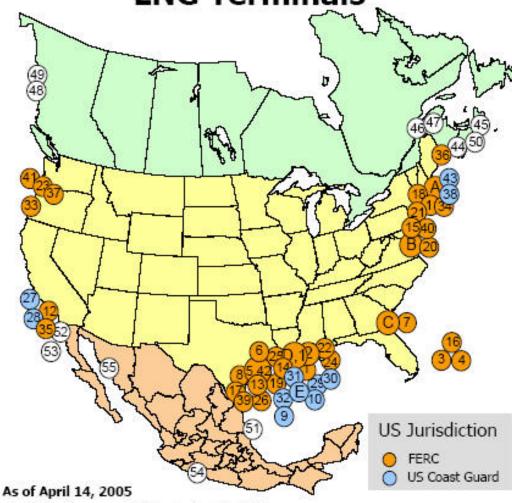
- Create an even larger market to drive extraction of domestic natural gas
- Raise natural gas rates by forcing us to compete on the global market for US gas
- Encourage more coal: if natural gas price goes up, then we will lean back on "cheap coal"
- LNG undercuts "energy independence" as well as energy efficiency, conservation & renewables







Existing, Proposed and **Potential North American** LNG Terminals



* 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)
- E. Gulf of Mexico: 0.5 Bcfd. (Gulf Gateway Energy Bridge Excelerate Energy) APPROVED BY FERC
- 1. Lake Charles, LA: 1.1 Bcfd (Southern Union Trunkline LNG)
- 2. Hackberry, LA: 1.5 Bcfd, (Sempra 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: 0.54 Bcfd (El Paso Southern LNG)
- 8. Corpus Christi, TX: 2.6 Bcfd. (Cheniere LNG)
- APPROVED BY MARAD/COAST GUARD
- 9. Port Pelican: 1.6 Bcfd, (Chevron Texaco)
- 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: 1.0 Bcfd (Vista Del Sol EcconMobil)
- 14. Sabine, TX: 1.0 Bcfd (Golden Pass ExxonMobil)
- 15. Logan Township, NJ: 1.2 Bcfd (Crown Landing LNG BP)
- 16. Bahamas: 0.5 Bcfd, (Seafarer El Paso/FPL)
- 17. Corpus Christi, TX: 1.0 Bcfd (Ingleside Energy Occidental Energy Ventures)
- 18. Providence, RI: 0.5 Bcfd (Keyspan & BG LNG)
- 19. Port Arthur, TX: 1.5 Bcfd (Sempra)
- 20. Cove Point, MD: 0.8 Bcfd (Dominion)
- 21. LI Sound, NY: 1.0 Bcfd (Broadwater Energy TransCanada/Shell) 22. Pascagoula, MS: 1.0 Bcfd (Gulf LNG Energy LLC)
- 23. Bradwood, OR: 1.0 Bcfd (Northern Star LNG Northern Star Natural Gas LLC)
- 24. Pascagoula, MS: 1.3 Bcfd (Casotte Landing ChevronTexaco)
- 25. Cameron, LA: 3.3 Bcfd (Creole Trail LNG Cheniere LNG)
- 26. Port Lavaca, TX: 1.0 Bcfd (Calhoun LNG Gulf Coast LNG Partners) PROPOSED TO MARAD/COAST GUARD
- 27. California Offshore: 1.5 Bcfd (Cabrillo Port BHP Billiton)
- 28. So. California Offshore: 0.5 Bcfd, (Crystal Energy)
- 29. Louisiana Offshore: 1.0 Bcfd (Main Pass McMoRan Exp.)
- 30. Gulf of Mexico: 1.0 Bcfd (Compass Port ConocoPhillips)
- Gulf of Mexico: 2.8 Bcfd (Pearl Crossing ExxonMobil)
 Gulf of Mexico: 1.5 Bcfd (Beacon Port Clean Energy Terminal ConocoPhillips)

POTENTIAL SITES IDENTIFIED BY PROJECT SPONSORS

- 33. Coos Bay, OR: 0.13 Bcfd, (Energy Projects Development)
- 34. Somerset, MA: 0.65 Bcfd (Somerset LNG)
- 35. California Offshore: 0.75 Bcfd, (Chevron Texaco)
- 36. Pleasant Point, ME: 0.5 Bcf/d (Quoddy Bay, LLC)
- 37, St. Helens, OR: 0.7 Bcfd (Port Westward LNG LLC)
- 38. Offshore Boston, MA: 0.8 Bcfd (Northeast Gateway Excelerate Energy)
- 39. Galveston, TX: 1.2 Bcfd (Pelican Island BP)
- 40. Philadelphia, PA: 0.6 Bcfd (Freedom Energy Center PGW)
- 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 Bcf/d (Bear Head LNG Anadarko)
- Quebec City, QC: 0.5 Bcfd (Project Rabaska Enbridge/Gaz Met/Gaz de France)
- Rivière-du-Loup, QC: 0.5 Bcfd (Cacouna 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 (Keltic Petrochemicals)

MEXICAN APPROVED AND POTENTIAL TERMINALS

- 51. Altamira, Tamulipas: 0.7 Bcfd, (Shell/Total/Mitsui)**
- 52. Baja California, MX: 1.0 Bcfd, (Sempra & 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)

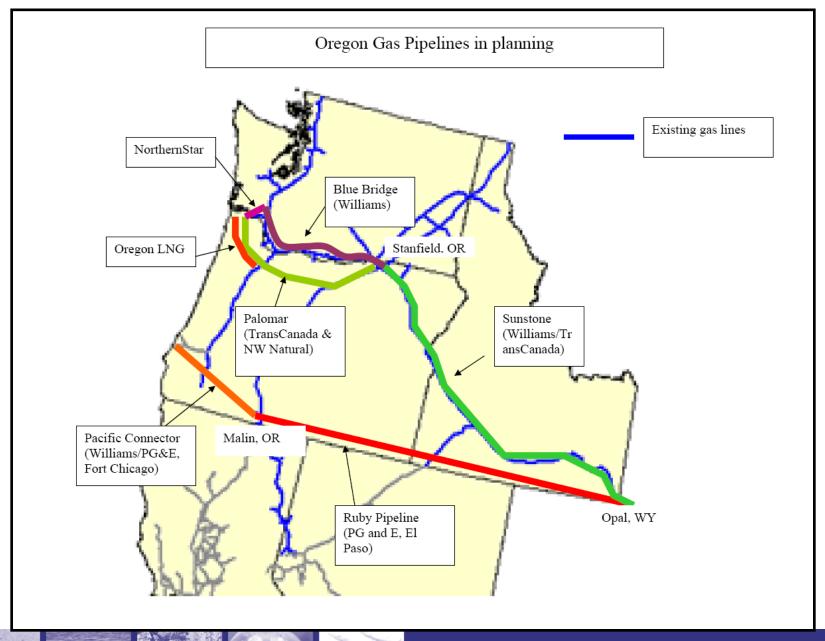


We knew there was NO NEED for LNG.

"Natural gas sources in North America, mainly from western Canada and the Rocky Mountains, are likely to provide natural gas at less cost than natural gas from any of the LNG terminals currently proposed in Oregon."

(Oregon Department of Energy report to the Governor, July 2008)









Kitimat LNG: Announced in 2008 they would export Canadian gas to Asian markets









Chesapeake Energy wants to export LNG

By Oil & Gas Financial Journal staff

Sabine Pass LNG Gets Approval To Export US Natural Gas

By Isabel Ordonez
Published September 09, 2010 | Dow Jones Newswires

Liquefied Natural Gas: U.S. Could Soon Become a Major Exporter

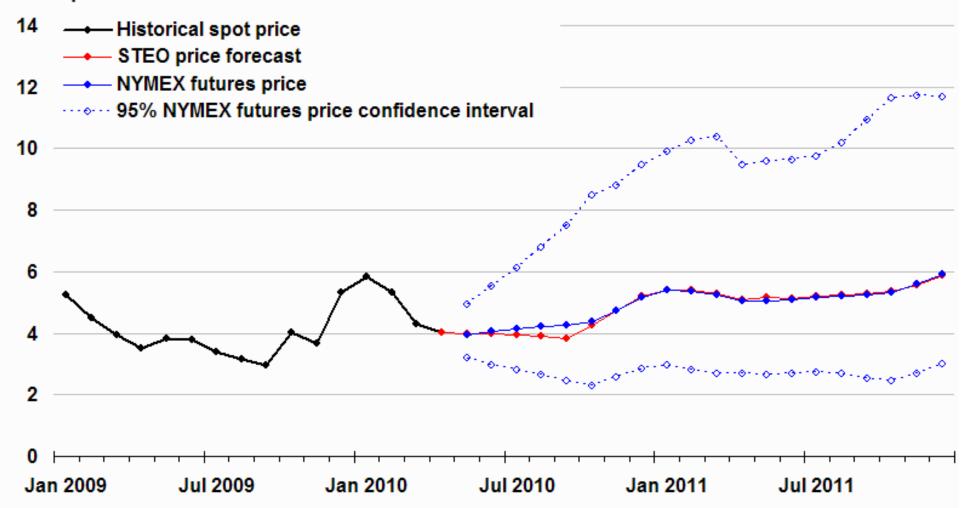
By Benzinga Staff October 19, 2010 14:19 PM

The market

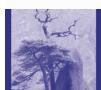
- The price difference between US gas and other markets only needs to be \$2-3 btu for export to be profitable.
- US is currently between 3-4, while Japan, China and European markets are between \$11-14.

Henry Hub Natural Gas Price

dollars per million btu



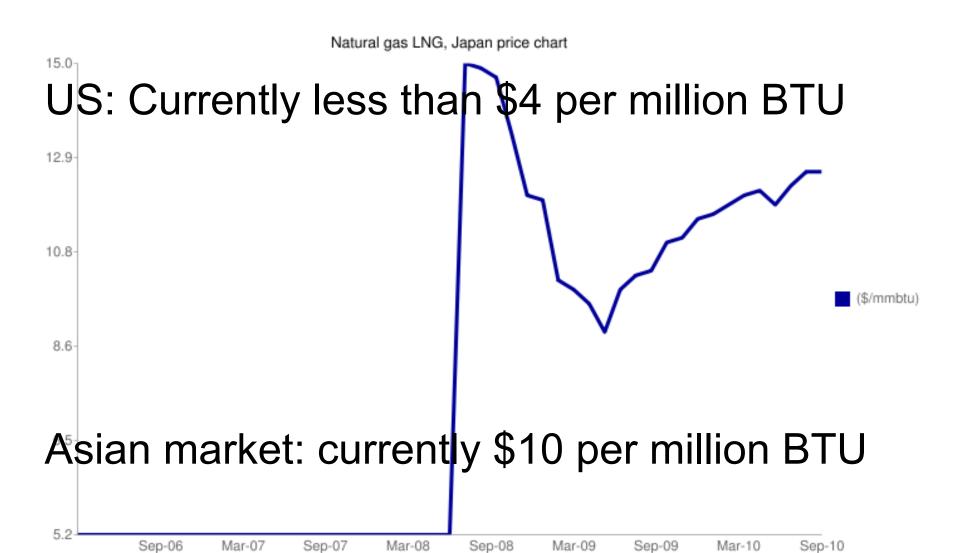
Note: Confidence interval derived from options market information from 5 trading days ending April 1, 2010











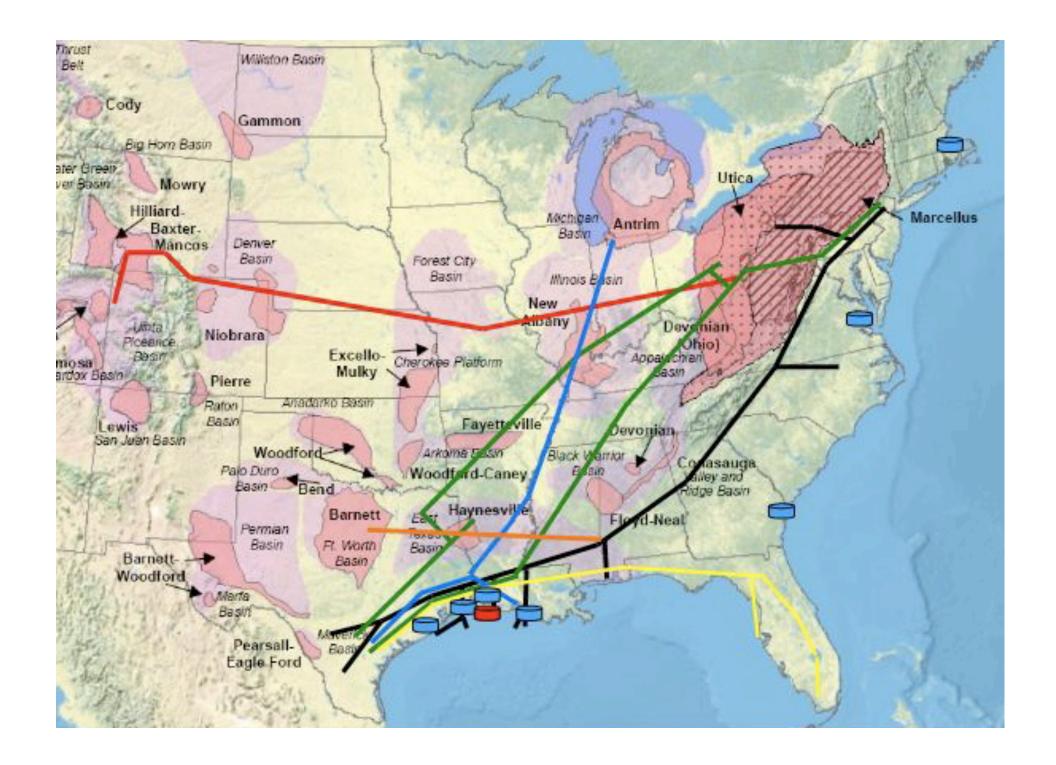


Ruby -> Pacific Connector -> Jordan Cove LNG at Coos Bay

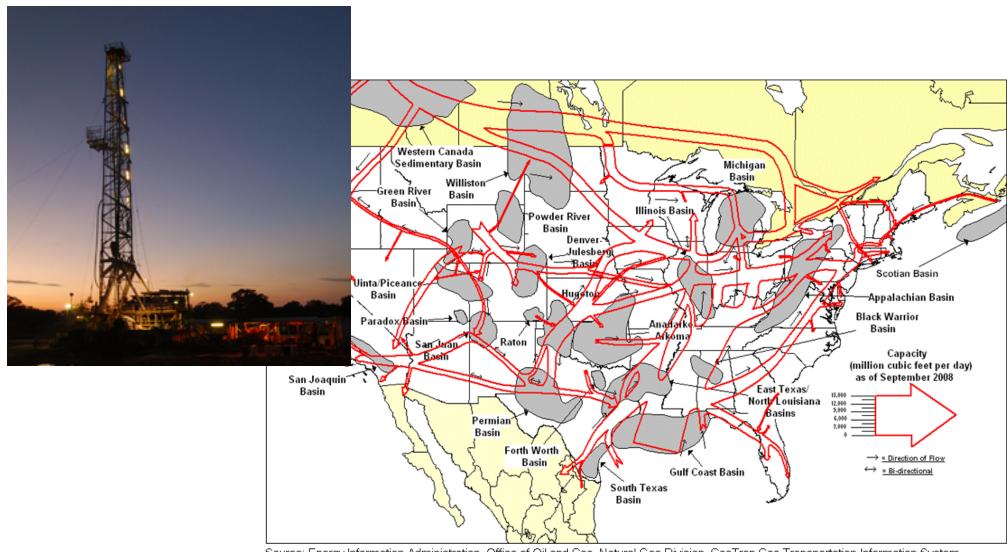


LNG terminals already exporting

- Sabine Pass in LA: signed an agreement with Chinese firm to export 1.5 million tons per year from domestic natural gas
- Freeport LNG in Quintana Island south of Houston could serve to export gas from Eagle Ford Shale in South Central Texas
- Sempra LNG in LA is already re-exporting



Think there is a lot of drilling now?



Source: Energy Information Administration, Office of Oil and Gas, Natural Gas Division, GasTran Gas Transportation Information System.

The EIA has determined that the informational map displays here do not raise security concerns, based on the application of the Federal Geographic Data Committee's Guidelines for Providing Appropriate Access to Geospatial Data in Response to Security Concerns.

They won't admit to export, because there is NO PUBLIC BENEFIT, and they therefore would not have right to eminent domain.













If we begin to export natural gas, gas rates will go up because we will be competing on the global market for domestic gas.

"LNG supplies from the United States can help lower gas prices in Europe and Asia and ultimately help lift prices in the States,"

- Mikhail Korchemkin from Pennsylvaniabased East European Gas Analysis.

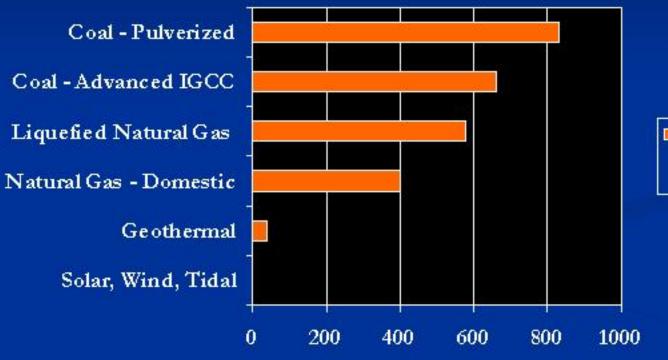


Energy Independence?

I'm not saying domestic natural gas = energy independence. But, that is the company's message.

Export argument allows you to fight that!

LNG Not A Clean Fuel



■ Global Warming Gas Pollution: Grams per Kilowatt Hour

Sources: Richard Heede, Orkustofnun, IAE Greenhouse Gas R&D Program



What can be done?

Use the export potential in your messaging as part of your fight: Challenge the notion that this is good for the public, challenge the idea that your land, safety and health could be put in jeopardy for corporate profit and no public good.

Link up with communities fighting new LNG terminals to combat export, or if not permitted or built yet, to oppose the entire terminal.

Pass legislation banning export.

Senator Merkley (Oregon) proposed an amendment to a budget bill in summer 2009 that would have restricted LNG exports out of concern that LNG proponents were planning to turn their terminals into export facilities.



