

Liquefied Natural Gas From Indonesia: The Arun Project

Geopolitics of Gas Conference

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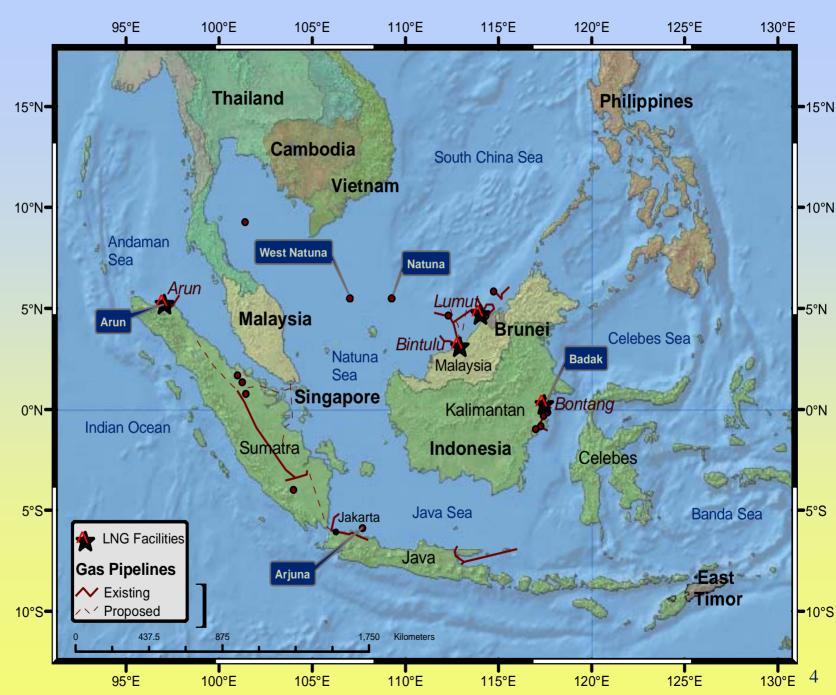
- History of the Project
- The Japanese Connection: Lack of Alternative Markets for Arun and Indonesian Gas
- Political and Institutional Consequences of the Arun Project



History of The Arun Project

- Discovery of Gas in Arun and Bontang
- Indonesian Government and Pertamina Seek Project Developers and Buyers:
 - ◆ California Contract
 - ◆ Japanese Western Group of Buyers
- Negotiations with Japan in 1970s:
 - ◆Strategic Role of Trading Firms, Japanese Government in Maintaining Negotiations
 - ◆ Contracted for 8 mtpa
 - ◆ Development of Japanese Financing Institutions
 - Pricing, Japanese Concern for Supply Security, Diversity of Supply







JAPANESE IMPORTS OF LNG BY COUNTRY, 1975-2001

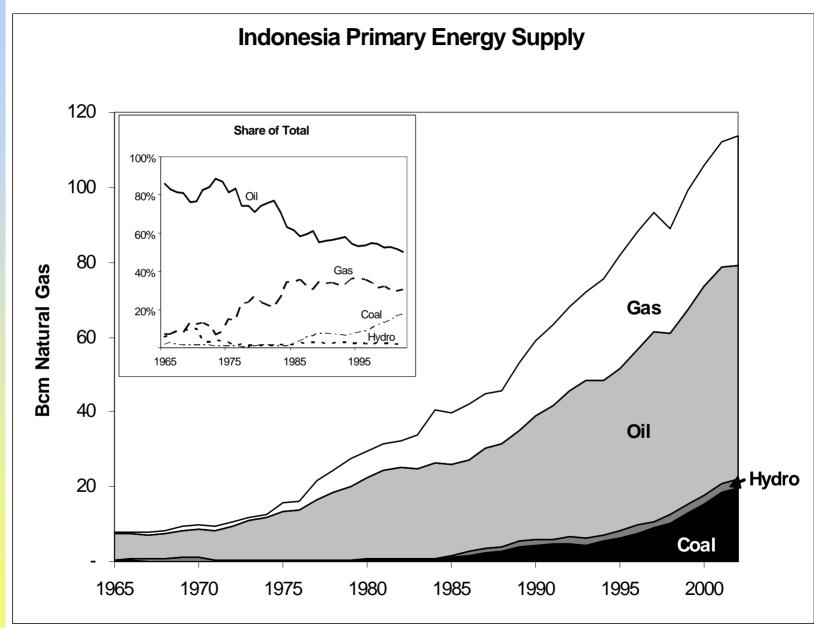
Year	U.S.	Brunei	UAE	Indo- nesia	Malaysia	Australia	Qatar	Oman
10==								
1975	20%	80%	-	-	-	-	-	-
1980	5%	32%	12%	51%	-	-	-	-
1985	4%	19%	8%	53%	16%	-	-	-
1990	3%	15%	6%	49%	19%	9%	-	-
1995	3%	13%	9%	40%	20%	16%	-	-
2001	2%	11%	9%	30%	21%	14%	12%	1%



Alternative Uses for Arun Gas

- Demise of the California Connection:
 - California Siting Issues
 - ◆Diminishing Strategic Role of California Alternative
 - Strong Japanese Desire
- Domestic Distribution:
 - ◆Insufficient Domestic Demand on Java
 - ◆Wariness of Foreign, Domestic Investors on Alternative Uses in Java
 - ◆Predominance of Oil in Planning



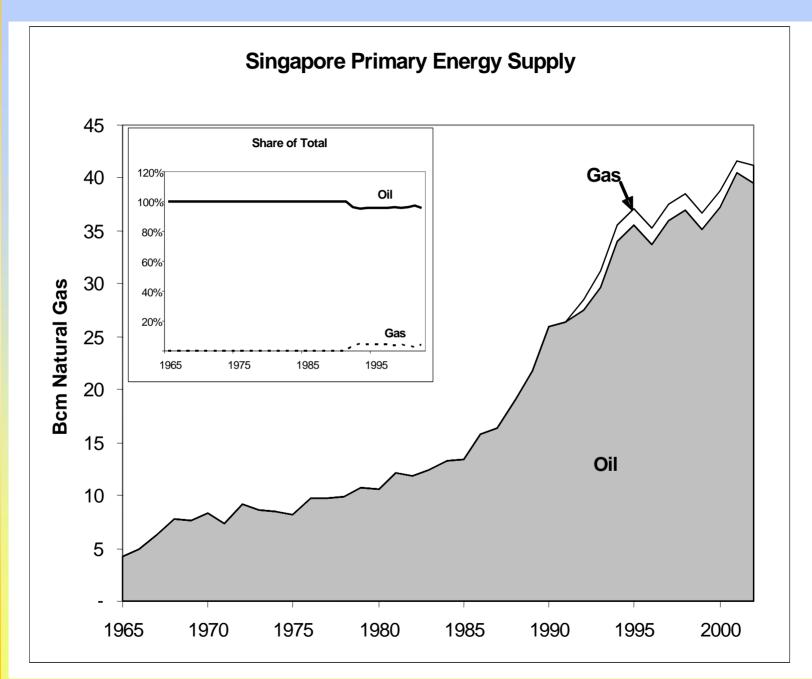




Alternative Uses for Arun Gas

- The Singapore Alternative, Pros:
 - ◆Strong, Steady Economic Growth in 1970s and 1980s
 - ◆ Long History of Gas use, and Plans to Develop Petrochemical Industry
 - Interest in Importing Gas from Neighbors
- The Singapore Alternative, Cons:
 - ◆Singapore Small in Comparison to Japan and California (8 mtpa to Japan by 1980)
 - ◆ Technological Issues and Fear of Technical and Safety Issues for Piped Gas and LNG
 - Oil Industry Predominance in Planning, Discounting of Gas







Arun, Politics and Institutions

- Established Strong Role of the State in Developing Domestic Gas Market:
 - ◆Final Guarantor of Investments
 - Coordinating if not Leadership Role in Negotiations
 - New Model of Cooperation Between State, Domestic Buyers, Trading Firms with Foreign Governments, NOCs and MNCs
- Established Popular Conceptions of Safety, Industry Perceptions of Profitability
- Relative Underdevelopment of Indonesian and Japanese Domestic Gas Distribution Systems in Long-Term