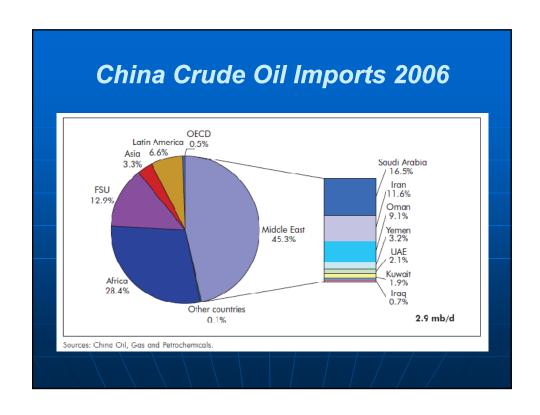
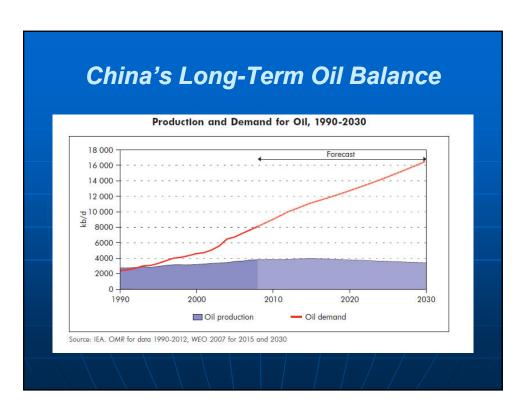
Asia-Middle East Energy Trade and Investment Trends

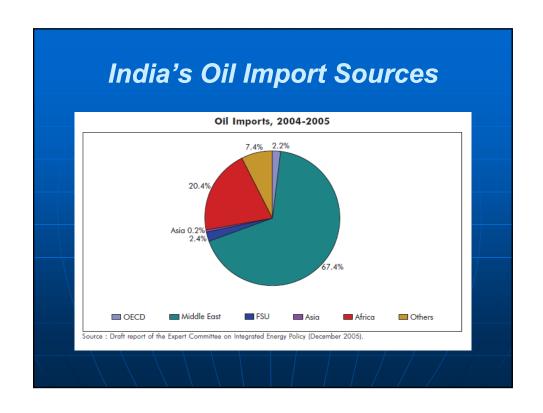
Mikkal Herberg
"The New Silk Road: The Growing AsiaMiddle East Energy Nexus"
Washington, D.C.
May 18, 2009

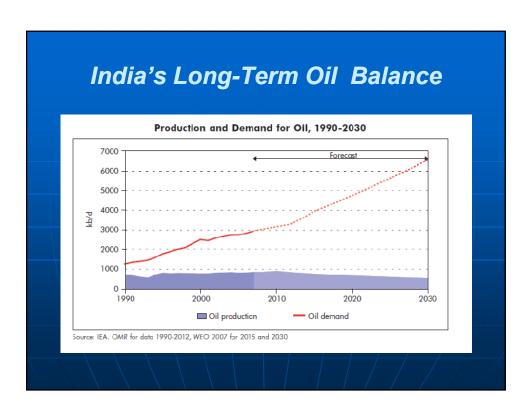
The New Energy Silk Road

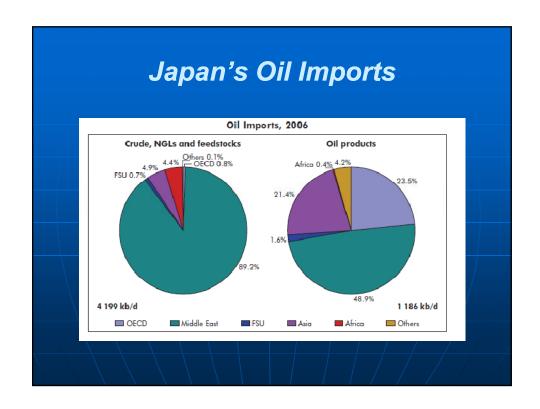
- Rapidly rising oil and gas demand in developing Asia and rising Asian dependence on Middle East oil and gas exports
- Asian NOC growing investments in oil and gas production in the Gulf
- Growing cross-investments by Gulf producer NOCs downstream in Asia
- The shifting global geopolitical and economic context: rise of China, end of US geopolitical primacy

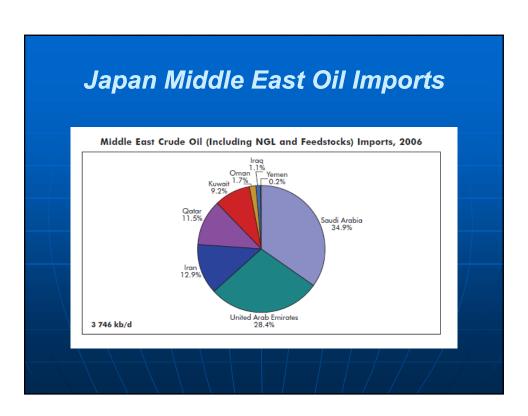


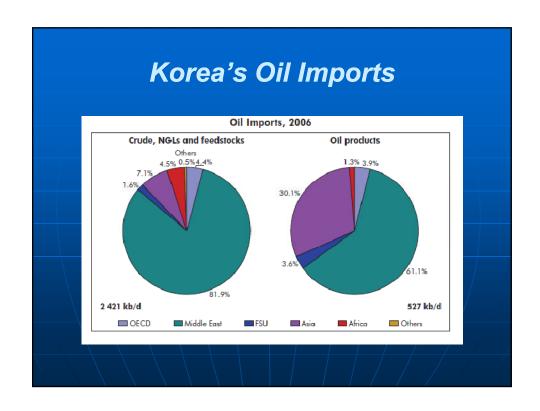


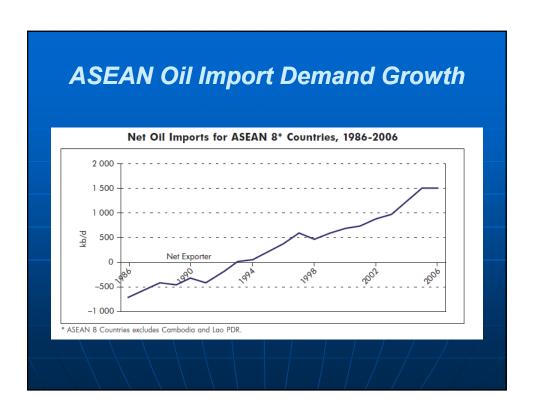










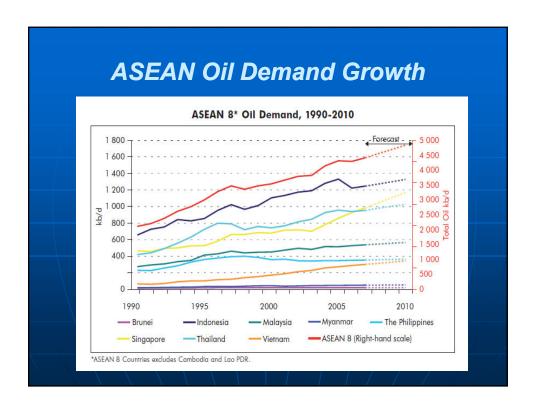


ASEAN 8 Oil Balances

Oil Statistics, 2006										
Country	Production kb/d	Demand kb/d	Net imports kb/d	Refining capacity kb/d						
Brunei Darussalam	220.2	13.7	-	8.6						
Cambodia	-	-	-	-						
Indonesia	1 061.9	1 214.6	152.6	992.7						
Lao PDR	=	-	-	-						
Malaysia	749.8	520.8	-	544.8						
Myanmar	21.9	42.0	20.2	57.0						
The Philippines	25.0	343.3	318.3	333.0						
Singapore	=	920.0	920.0	1 336.6						
Ihailand	314.2	932.0	61/.8	/29.1						
Viet Nam	367.4	280.9	-	-						
ASEAN	2 760.5	4 267.3	1 506.8	4 001.9						

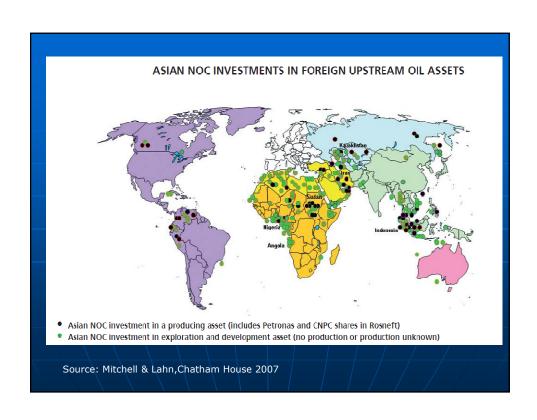
Oil Statistics, 1990-2010							
	1990	1995	2000	2005	2006	2010	
Production (kb/d) ^{1/}	2 451.5	2 808.2	2 848.4	2 783.6	2 760.5	1 952.4	
Demand (kb/d) ^{2/}	2 091.4	2 980.7	3 514.6	4 291.3	4 267.3	4 811.2	
Net imports (kb/d)	-360.0	172.4	666.2	1 507.7	1 506.8	2 858.8	
Import dependency (%)	*	5.8	19.0	35.1	35.2	59.4	
Refining capacity kb/d ^{3/}		2 850.0	3 918.0	3 975.9	4 001.9		

1/ Brunei, Indonesia, Malaysia, Myanmar, Philippines, Thailand and Viet Nam. 2/ ASEAN minus Lao PDR and Cambodia. 3/ ASEAN minus Lao PDR, Cambodia and Viet Nam (no Brunei in 2000 data).



Energy Investment and Trade Follow Demand

- Growing scale of crude supply contracts from Saudi, Iran, UAE, Iraq
- Large LNG contracts and investments by Japan, Korea (Qatar, UAE, Oman, Yemen); with China, India as new fastest growing potential customers (Qatar, Iran)
- Japan and Korea NOCs have long pursued upstream oil investments in the Middle East with very limited success
- China's NOCs rapid emergence, new efforts by Indian NOCs have intensified the competitive upstream oil investment environment
- Caught between rising dependence, extremely limited access to ME resources
- All trying to diversify imports away from Gulf, but resource base will dictate growing importance of Gulf supplies



What are the Geopolitical Implications of the growing Asia-Middle East Energy Nexus?

- US long-term role as energy and strategic superpower in the Gulf?
- Global oil markets, resource access?
- The US-Saudi strategic alliance?
- Western policy toward Iran?
- China's rising global power, influence?
- India's regional role?
- US-China relations?
- Key Asian rivalries?
 - China-Japan
 - China-India

Japan and Korea

- Japan: raise Japan controlled oil from 15% to 40%
 - Strengthen energy diplomacy: aid, technical assistance, JBIC loans, etc.
 - Qatar, UAE account for 25% of LNG imports
- Korea: raise Korean controlled oil from 4% to 15%
 - Strengthen energy diplomacy: aid, technical assistance, loans, etc.
 - Qatar, Oman account for 45% of LNG imports

