The Role of the Middle East Producers in the Global Oil Market

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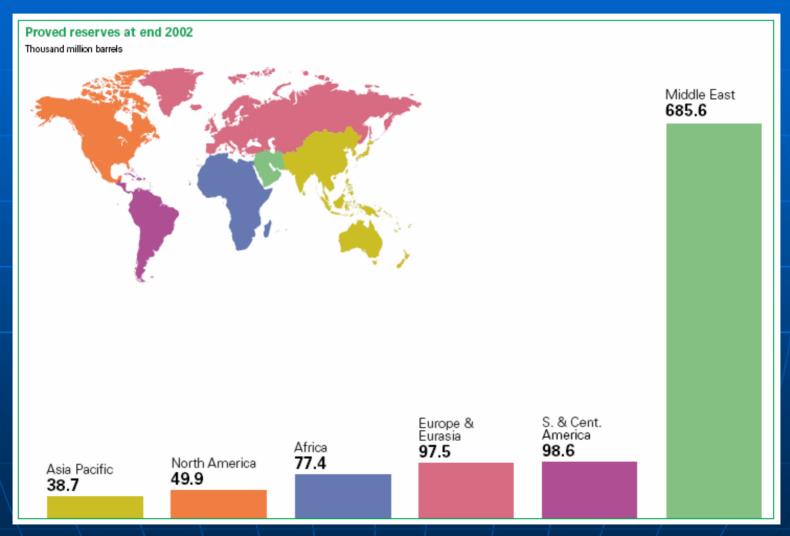
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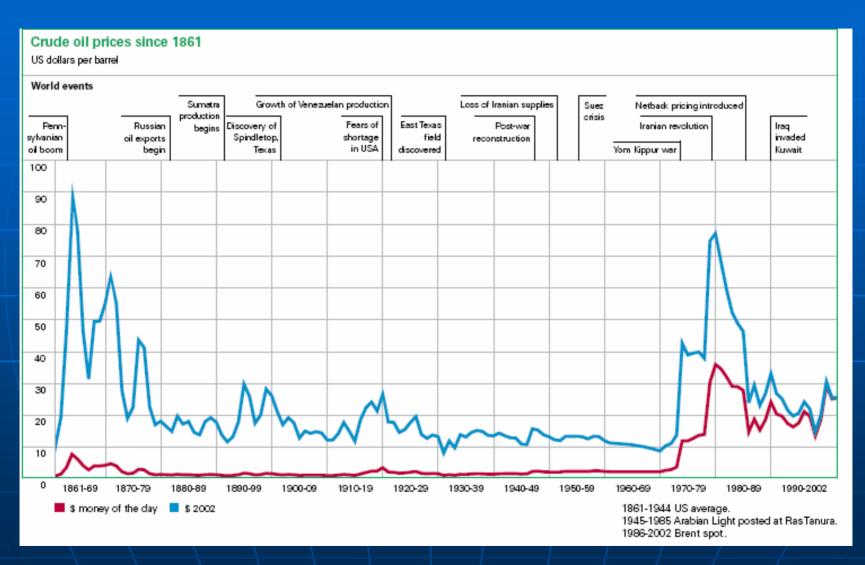
Agenda

- Evolution of the global oil market
- Future "dependence' and the role of the Middle East
- Oil exporters' economic development

Middle East oil reserves dominate



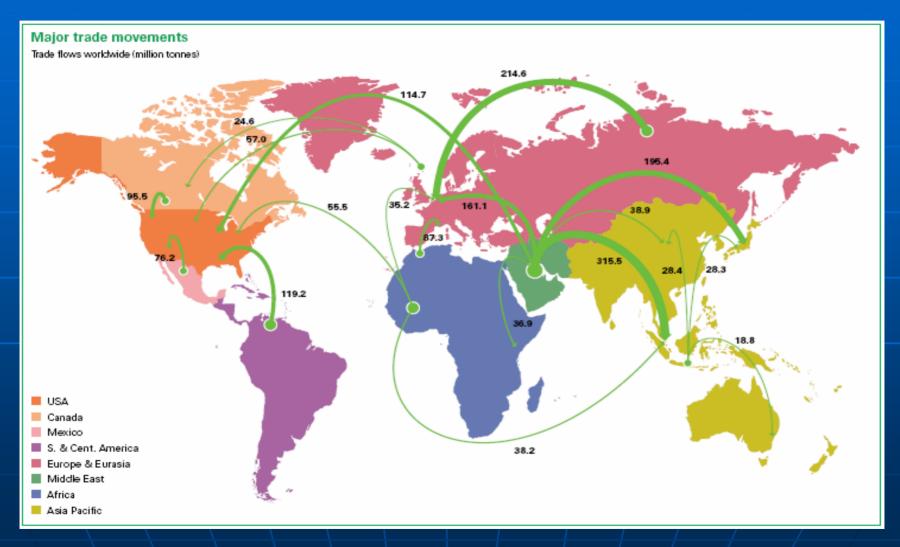
Post – 1973 is different



Crude oil reserves and production - 2002

	Reserves	Production	Reserves	Production	
	Gb	MB/d	Sha	Shares	
Saudi Arabia	262	8	25%	12%	
Iraq	113	2	11%	2%	
United Arab Em	98	2	9%	2%	
Kuwait	97	2	9%	2%	
Iran	90	3	9%	5%	
Qatar	15	1	1%	1%	
Gulf OPEC	674	17	64%	24%	
Venezuela	78	3	7%	4%	
Libya	30	1	3%	2%	
Nigeria	24	2	2%	3%	
Algeria	9	2	1%	2%	
Indonesia	5	1	0%	2%	
Other OPEC	146	9	14%	13%	
Russia	60	8	6%	11%	
No America	37	10	4%	14%	
China	18	3	2%	5%	
Other FSU	18	2	2%	2%	
North Sea	16	6	2%	8%	
Mexico	13	3	1%	5%	
ROW	66	13	6%	18%	
Non-OPEC	229	44	22%	63%	
		-			
World	1,048	71	100%	100%	

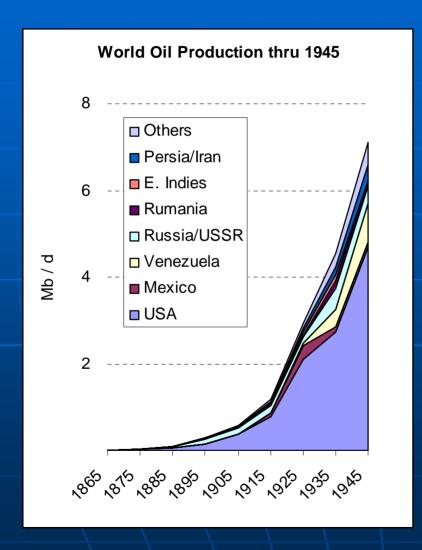
Oil trade -- 2002

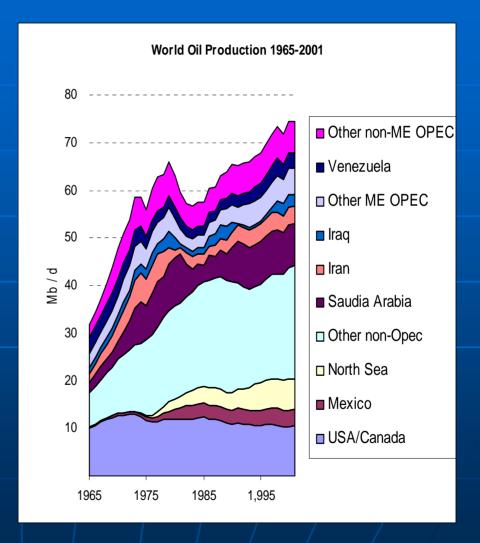


Most oil is found in big, cheap chunks

- Always an issues of market power --tension between glut and monopoly control
- Trade dependence implies geopolitical significance

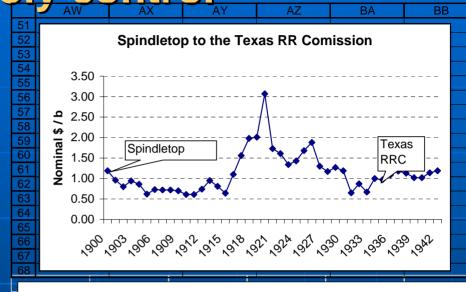
World Oil Supply

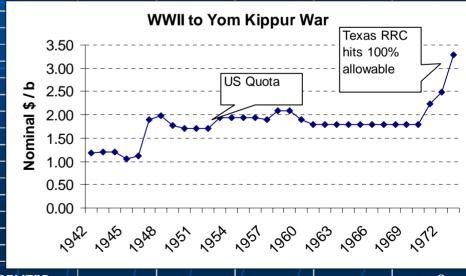




The oil market is almost always under monopoly control

- 1870 1911Standard Oil
- 1911 1928
 International cooperation/wars
- 1935 1971Texas RRCommission,US Quotas
- 1971 –OPEC, more or less





1860 – 1945: US dominates, but Europeans "colonize" the rest of the world

1859 -- Oil discovered in Pennsylvania

1870 - Rockefeller forms Standard Oil

1873 -- Nobels enter Russia at Baku

1885 - Rothschilds enter Russia Royal Dutch finds oil in Sumatra

1892 - S. Marcus send Murex thru Suez

1896 - Ford builds first car

1901 - concession in Persia. Spindletop in USA

1907 - Shell and Royal Dutch combine

1908 - Anglo Persian formed

1911 - Standard Oil Trust dissolved

1914 – UK gets 51% of Anglo-Persian

1922 - oil discovered in Venezuela

1928 - (Gulbenkian) Turkish Petroleum negotiate "Red Line" agreement splitting ME (except Kuwait) between French (CFP), BP, and Rd/Shell

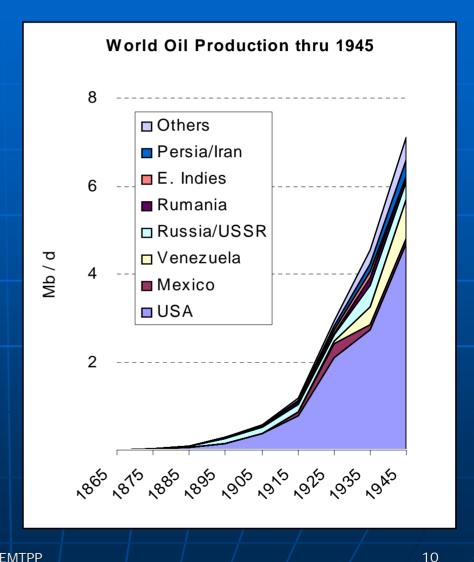
Achnacarry "As is" agreement

1930 - East Texas fields come in in time for recession

1935 - Texas RailRoad Commission formed

1938 - Mexico nationalizes oil

1939 – 45 WWII, Japan grabs SE Asia oil 11/22/2004 Hitler invades Russia to get Baku



CEMTPP

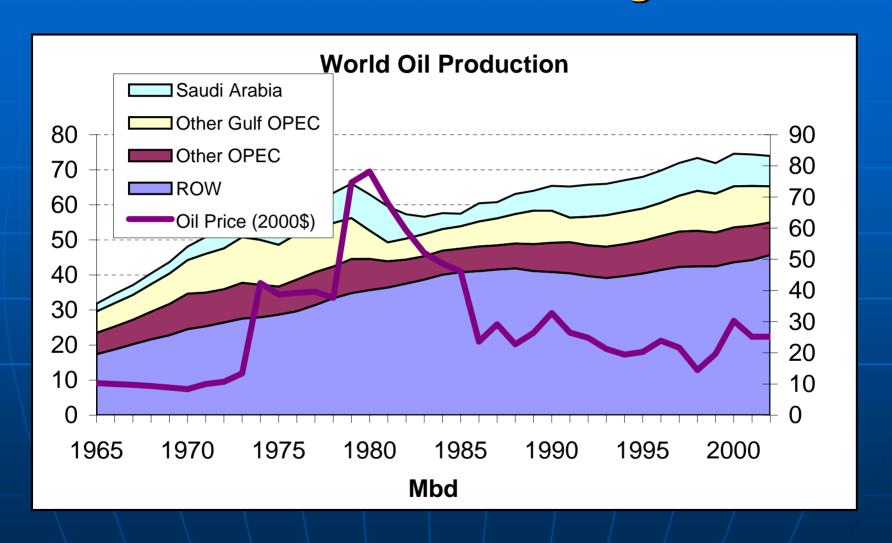
1950 – 1975: Producers' power emerges

- 1950 US invited into Saudi Arabia, Aramco is Standard, Texaco, Chevron, Mobil
- 1952-55 Buyers' embargo of Iranian production
- 1956 Suez war, canal closed; founding of independent tanker and FOB crude oil market
- 1959 MidEast and Russian production grow, US import quotas to sustain US price
- 1960 OPEC founded (Venezuela, Saudi Arabia, Iraq, Iran,
- 1967 6-day war, Suez closed again
- 1968/69 North Slope and Alaska discovered
- 1970 Libya raises price and share
- 1971 Texas RR Commission "allowable" hits 100%
- 1973 Yom Kipper war and embargo, oil price shock (\$3/b to \$11/b)
- 1975 Concessions end in Saudi, Kuwait, and Venezuela

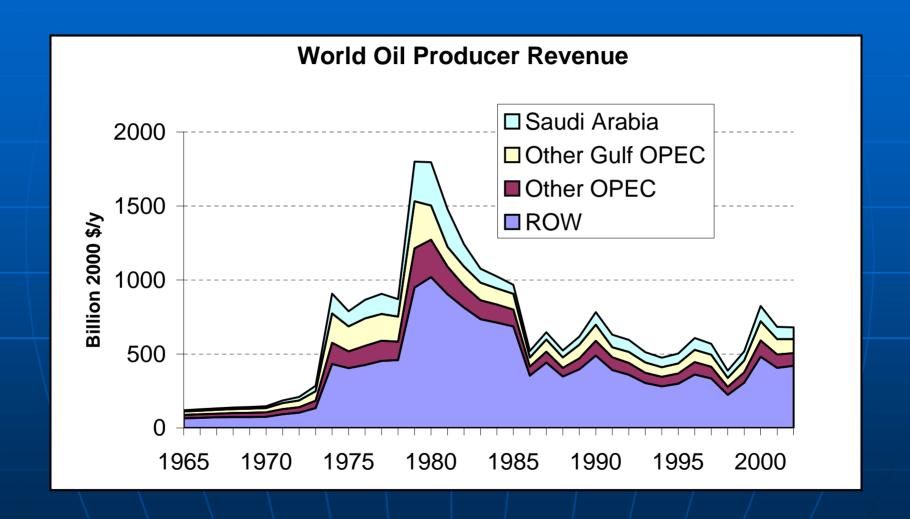
OPEC takes control and learns that greed is not rewarded

- 1973 Yom Kipper war and embargo, oil price shock (\$3/b to \$11/b)
- 1975 Concession end in Saudia, Kuwait, and Venezuela
- 1979 Iran crisis, second oil price shock (#13/b to \$34/b)
- 1981 Saddam goes to war on Iran
- 1985 Saudi (at about 3 Mb/d) sells "netback" oil
- 1986 Oil price collapse to \$8/b,OPEC switches from controlling prices to allocating quantities
- 1991 Kuwait price spike broken by SPR release
- 1998 "Asian flu" causes \$10/b glut
- 2001 OPEC discipline -\$22 \$28/b
- 2003/4 no Iraq-war spike, but prices stays in mid-\$30s

OPEC and Oil Pricing



OPEC and Oil Revenue



Lessons

- Producers' pricing powr is limited by the response of demand and competing supply
- Saudia Arabia has been the stabilizing force after 1973

Projections of oil market dependence

- Volume
- Inter-regional trade and dependency

Projected regional trade grows by 26 Mb/d to 50%

Imports

- Industrial regions grow 15 Mb/d
- China and Other Asia grow 11 Mb/d

Exports

- Mexico down 1 Mbd
- Russia, Caspian, West Africa add 9 Mb/d
- Non-Middle East OPEC adds 3 Mb/d
- Middle East OPEC adds 15 Mb/d

Trade					
2001	2025	Change			
23	38	<i>15</i>			
1	1	0			
6	11	<i>5</i>			
2	8	6			
32	57	26			
2	1	-1			
1	5	4			
4	9	<i>5</i>			
7	10	3			
18	33	<i>15</i>			
32	57	26			
Regional trade share					
41%	50%				
	23 1 6 2 32 2 1 4 7 18 32	2001 2025 23 38 1 1 6 11 2 8 32 57 2 1 1 5 4 9 7 10 18 33 32 57			

US Energy Information Agency, 2004 Annual Energy Outlook

US EIA projected world oil volume grows 37 Mb/d

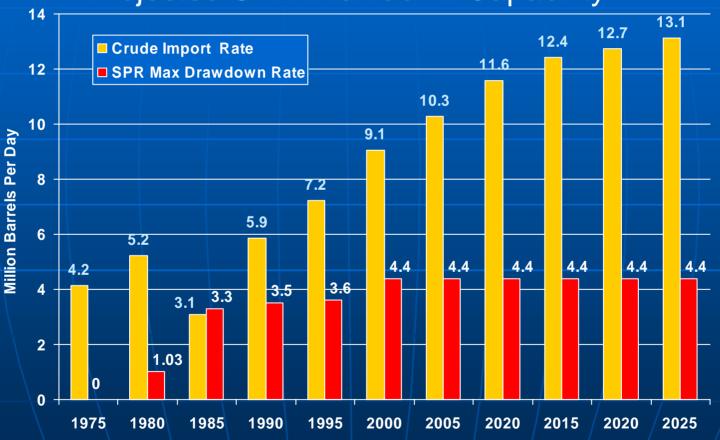
- Real oil price about flat at \$25/b
- World oil market volume grows 37 Mb/d
 - Non-OPEC 14 Mb/d
 - OPEC
 23 Mb/d
- Industrial countries' supply drops3 Mb/d
- Outside OPEC, big increases
 - South America 4 Mb/d
 - West Africa 4 Mb/d
 - Russia/Caspian/EE 8 Mb/d
- OPEC
 - Non-Middle East 4 Mb/d
 - Middle East19 Mb/d

0 1 111102 01					
	Supply				
Mb/d	2001	2025	Change		
Importers					
Industrial	19	16	-3		
Non-OPEC So America	4	7	3		
Other Asia	4	5	1		
China	3	3	0		
Exporters					
Mexico	4	5	1		
Non-OPEC Africa	3	7	4		
Russia/Caspian/EE	9	17	8		
OPEC-non ME	10	14	4		
OPEC-ME	21	40	19		
World*	77	114	37		
of which:					
Non-OPEC supply	46	60	14		
OPEC supply	31	54	23		
* includes non-conventional production					

US Energy Information Agency, 2004 Annual Energy Outlook

How much can Strategic Storage do in a world with shrinking inventories?

Projected SPR Drawdown Capability



A parallel Washington universe -"Neocon" policy

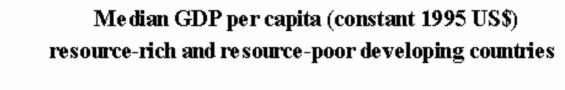
- Supply diversification -- Russia, Caspian, Iraq, Iran(?)
 - Can break the power of OPEC
 - Reduce prices
 - Deprive "terrorist" states of revenue
- None of this makes any sense
 - Low prices not in the interests of new, costly, privatized suppliers
 - Not enough new volume
 - New supplies are more unstable costly oil, difficult access to world markets, political immaturity Oil policy can't starve "terrorism revenue"

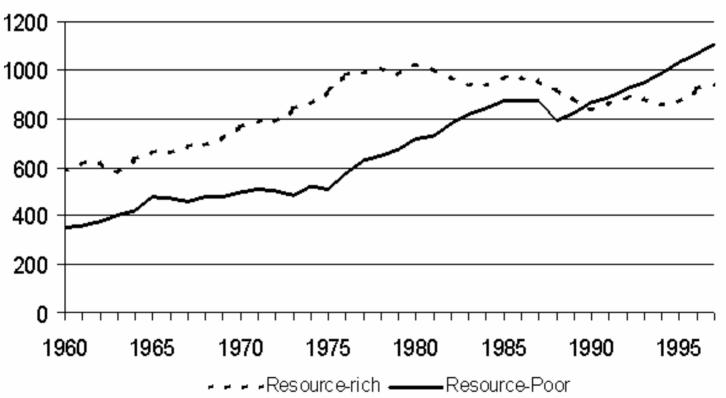
Conclusions

- The Middle East will increase in importance
- Only Saudi Arabia (with Kuwait and UAE)
 has the capability of maintaining spare
 capacity
 - Low cost capacity
 - National oil company
 - Sovereign interest in stability

Oil exporters' economic development

Oil exports don't foster economic development





"Resource curse"

Countries with large resource exports

- Have stifled agriculture and manufacturing sectors
- Incur massive debt
- Develop "clients" political systems
 - GulfVenezuela
 - Indonesia controlled corruption
 - Nigeria -- pervasive corruption

Why

- "Dutch disease" raises prices of non-traded factors
- Rent-seeking corrupts institutions

"Rent seeking"

Impact on governance incentives

- Surplus => no necessity for efficient performance
- Sovereign governance => rent-sharing, not maximization of value added
- Political "rent-seeking"
 participation, procurement, employment, pricing
- Personal "rent-seeking" "corruption"

Leads to

- economic inefficiency
- stultified institutional development
- smothered political and economic growth

Remedies

- Corporatized and competitive oil company
- Development and non-oil sector independent and competitively financed
- Transparent revenues
- Transparent procurement
- Key international security issue going forward