Organization of the Petroleum Exporting Countries

Market Changes and World Oil Outlook

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45 years of OPEC



This year OPEC is celebrating:
45 years since founding
40 years in Vienna



OPEC's objectives are today as valid as they were in 60's

Stable markets Reasonable prices Steady revenues Secure supply Fair returns to investors

Short, medium and long terms

Outcome of recent OPEC Conference

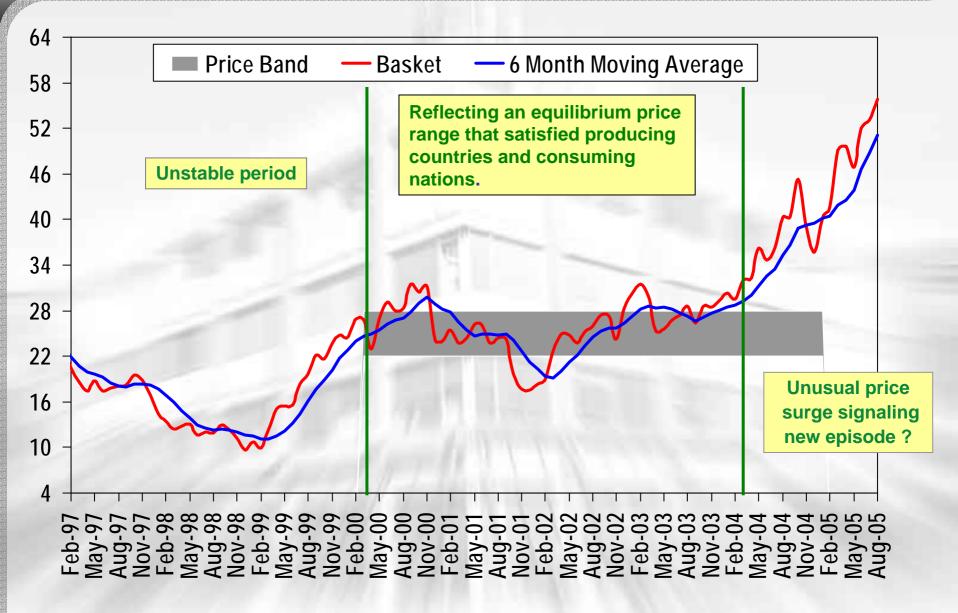
The 137th Ministerial Conference agreed to:

- Make available to the market spare capacity of ~ 2mb/d, should it be called for, for a period of three months, starting 1 October 2005
- Review market developments at its next Meeting in Kuwait on 12 December

What are the reasons behind this decision?



OPEC Reference Basket nominal price (\$U\$/b)



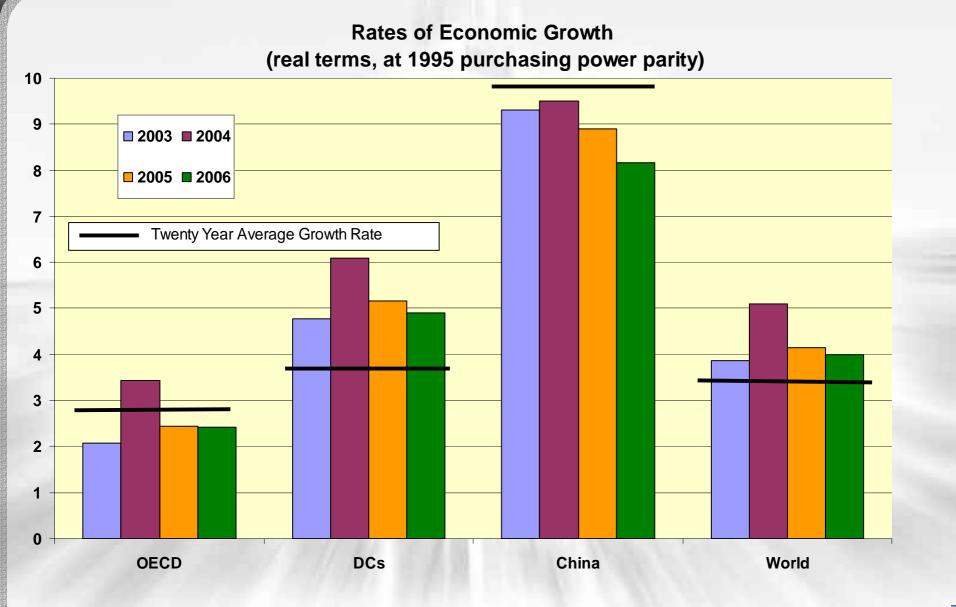
Key features of the present oil market

- Continued strong economic growth & high demand
 Supply chain tightness

 OPEC & non-OPEC oil supply
 Downstream bottlenecks

 Persistent price volatility: enhanced by geopolitical tensions, increasing speculative activity in Futures market
- Impact of Hurricane Katrina

Economic & oil demand growth



Economic outlook to 2006: World Economy

 Global Growth: In the first half of 2005 global growth was in the region of 4%. Japan grew strongly, North America also performed well but Europe continued to lag.

 3Q growth began steadily but the impact of Hurricane Katrina will affect North American growth in the final quarter. High oil prices may also depress growth prospects in Europe and Asia (excluding Japan).

 If the oil price is maintained at \$55/b for the remainder of 2005 and 2006, the rate of growth of global GDP in 2006 might be reduced to 3.9%. This would be 0.2% below the expected 4.1% outturn for this year.

Economic outlook to 2006: Major OECD

 USA: Hurricane Katrina has lowered the forecast growth rate for 2005 to 3.4%. Lower growth in consumer spending is expected to reduce the growth rate for 2006 to 3.0%.

 Japan: In the first half of 2005 GDP growth was 4.5%. The steady improvement in domestic demand should allow the growth rate for 2005 to reach 1.7% and possibly 2%. Growth of about 2% should also be achievable in 2006.

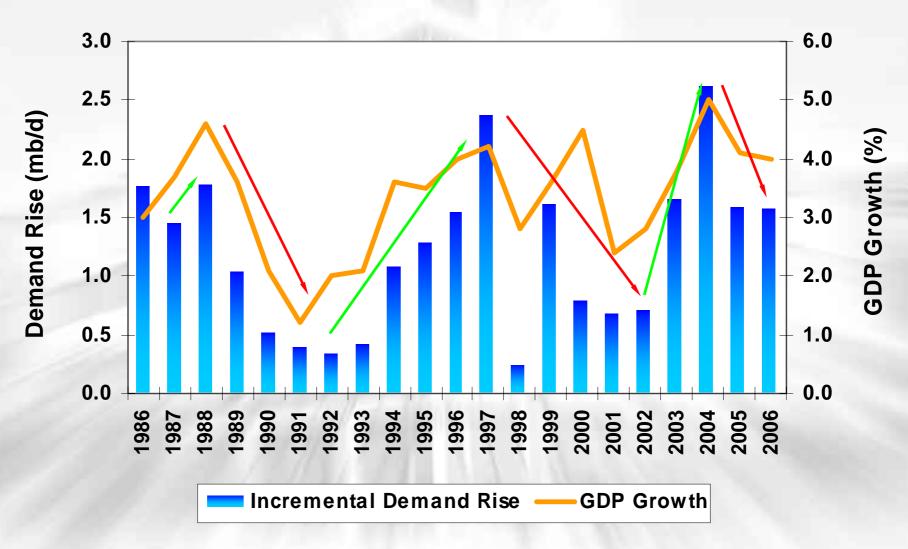
Euro-zone: First quarter growth was encouraging at 1.6% annualized but growth slowed to 1.2% in the second quarter. For the year as a whole GDP growth is unlikely to exceed 1.1%. GDP is expected to grow slightly faster at 1.5% in 2006.

Economic outlook to 2006: China and Korea

- Data for the first half of 2005 showed no slowdown in GDP growth in China which was 9.5%.
- Economically advanced regions are showing some weakness but industrial production continues to expand at about 16%. Lower GDP growth of 8.8% is expected for '05 with further deceleration to 8% next year as export growth may slow.
- Higher energy and input costs may affect profitability of over-extended companies. Chinese banking system may face some strains as economy slows
- Republic of Korea: Real GDP rose by only 3% in the first half of 2005 as a result of a downturn in the global IT cycle. In 2006 growth may be affected by both by higher energy costs and slower growth in the USA and China.

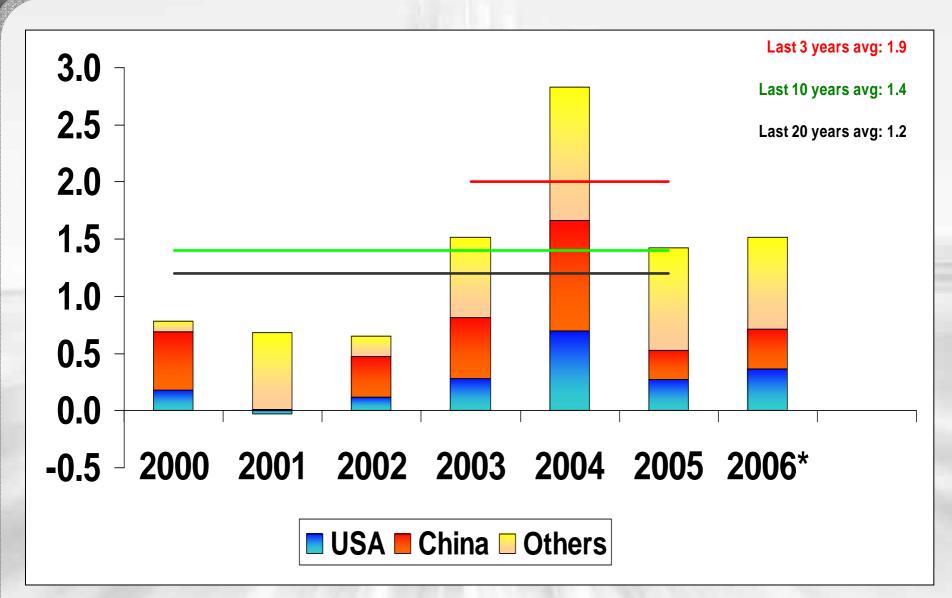
Economic and oil demand growth

- Exceptionally high World GDP growth at 5.1% in 2004
- This lead to the highest record growth of oil demand since 1976

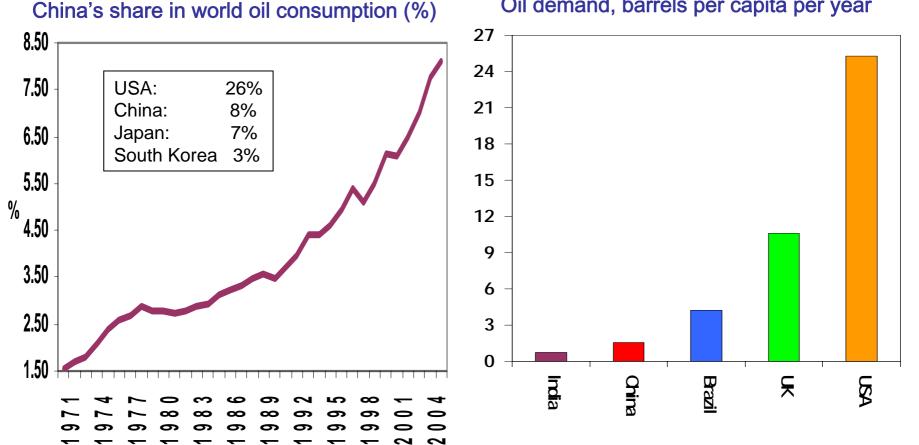


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Largest contributors to growth in world oil demand (mb/d)

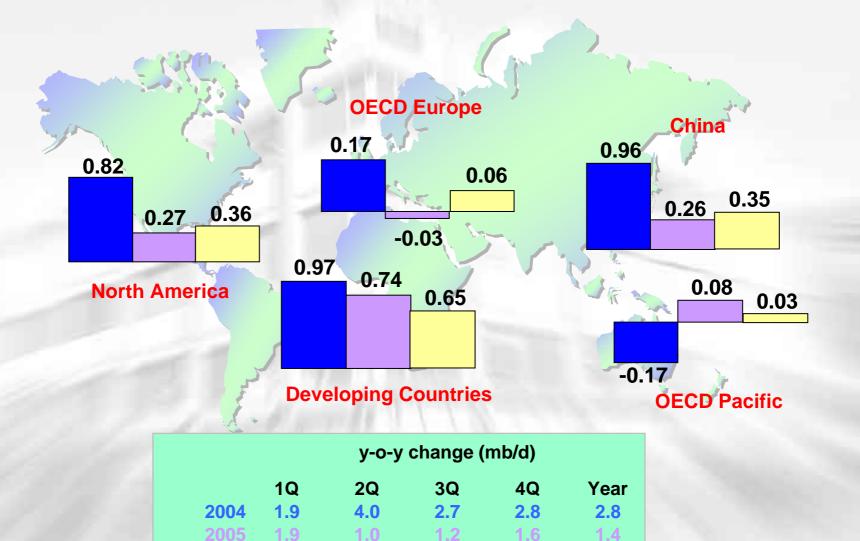


China has become the second largest oil consumer

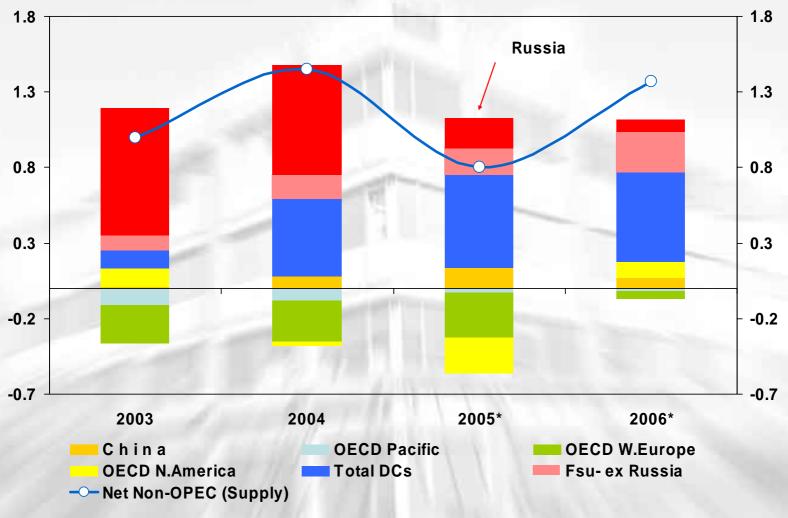


Oil demand, barrels per capita per year

World Oil Demand Growth Forecast 2004-2006, mb/d



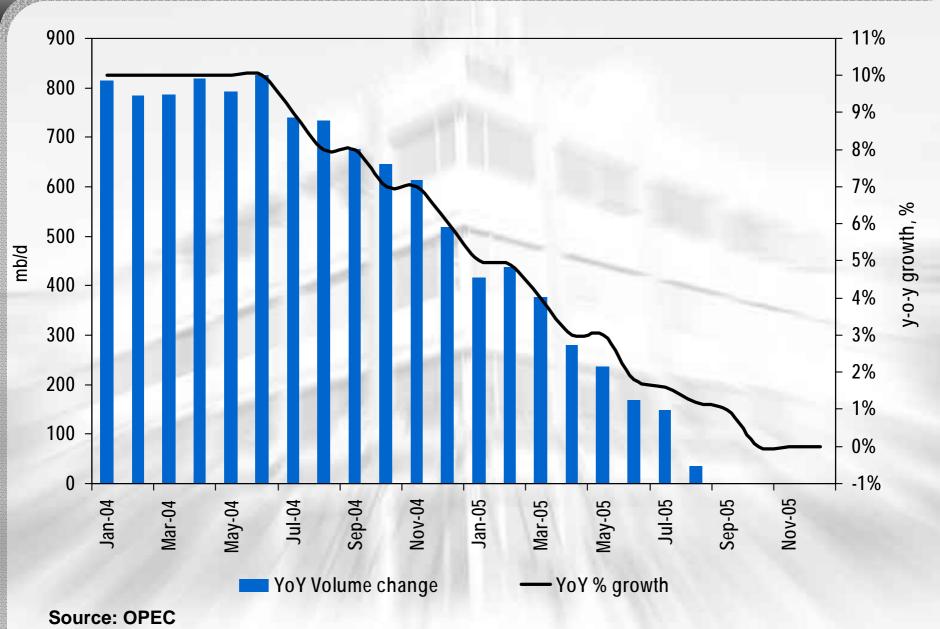
Non-OPEC growth year-on-year change (mb/d)



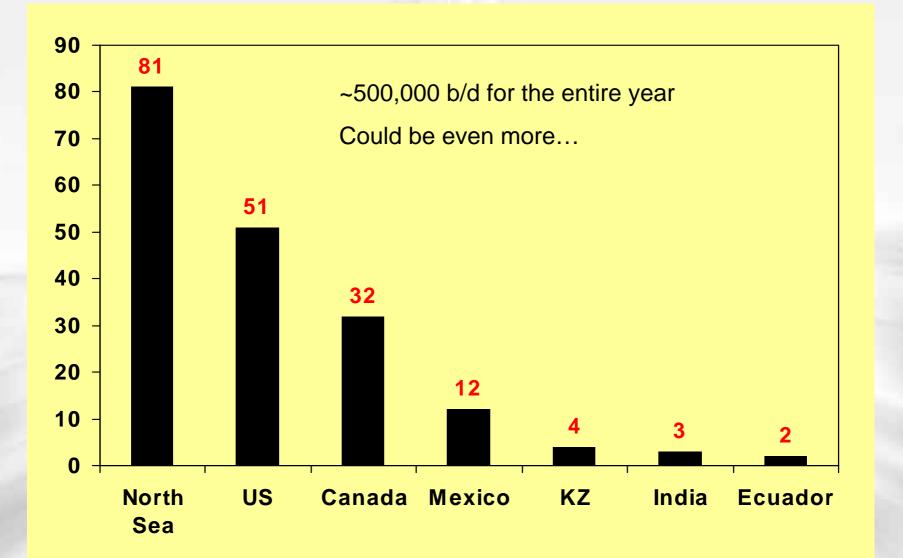
* Projected. Data includes OPEC NGL & non-conventionals.

Source: OPEC

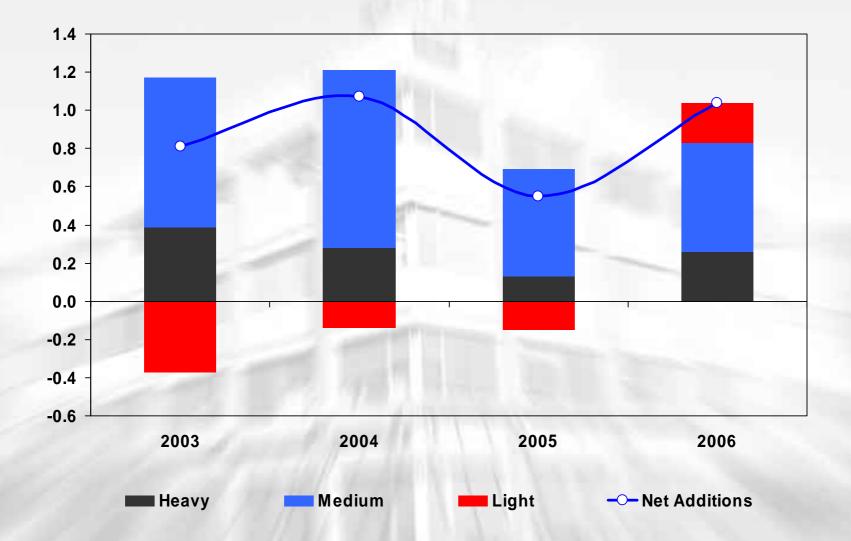
Slowing pace of Russian oil supply growth



2005: estimated production losses (mb)

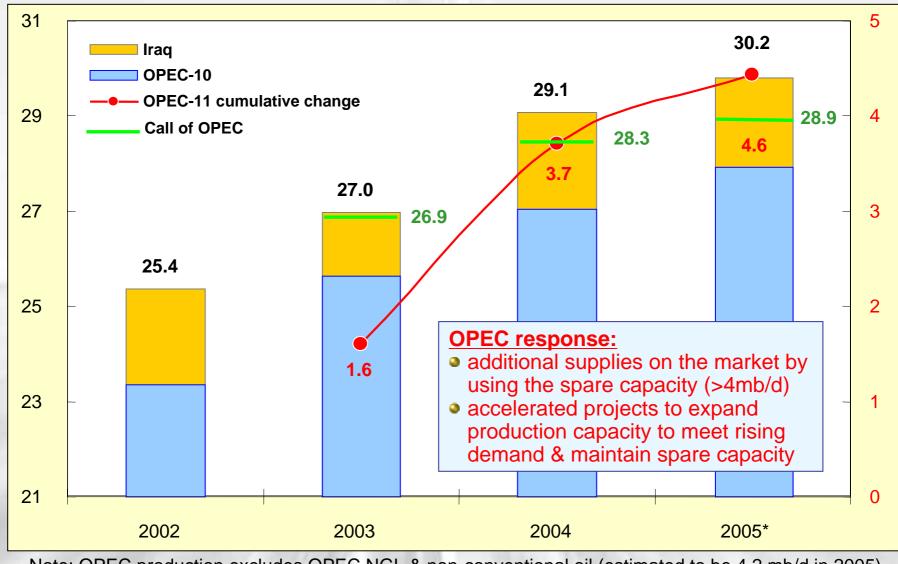


Quality of non-OPEC production 2003-2006 year-on-year change (mb/d)



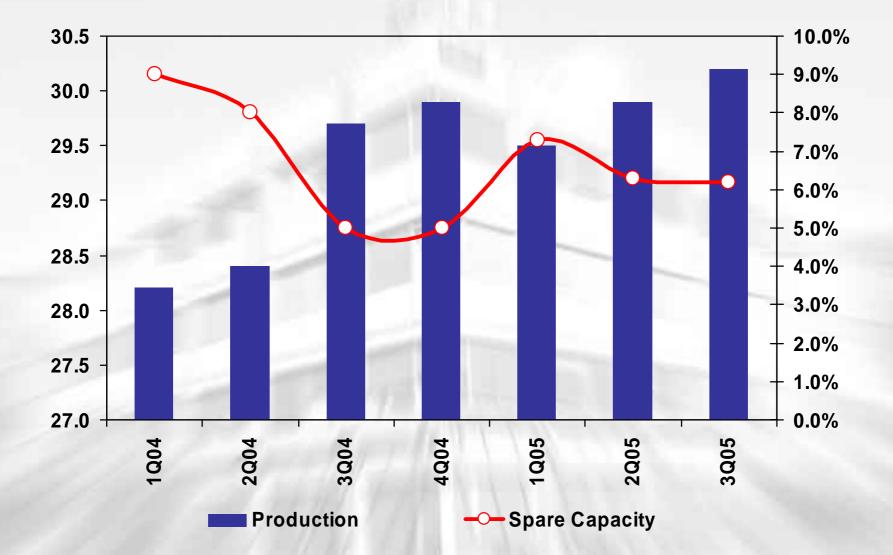
Source: OPEC; Heavy <26, Medium 26-35, Light > 35

OPEC crude oil production, 2002-2005 (based on secondary sources, mb/d)



Note: OPEC production excludes OPEC NGL & non-conventional oil (estimated to be 4.2 mb/d in 2005). * / As of August 2005, OPEC production is assumed to be at July level of 30.2 mb/d.

OPEC production (mb/d) vs spare capacity (%)



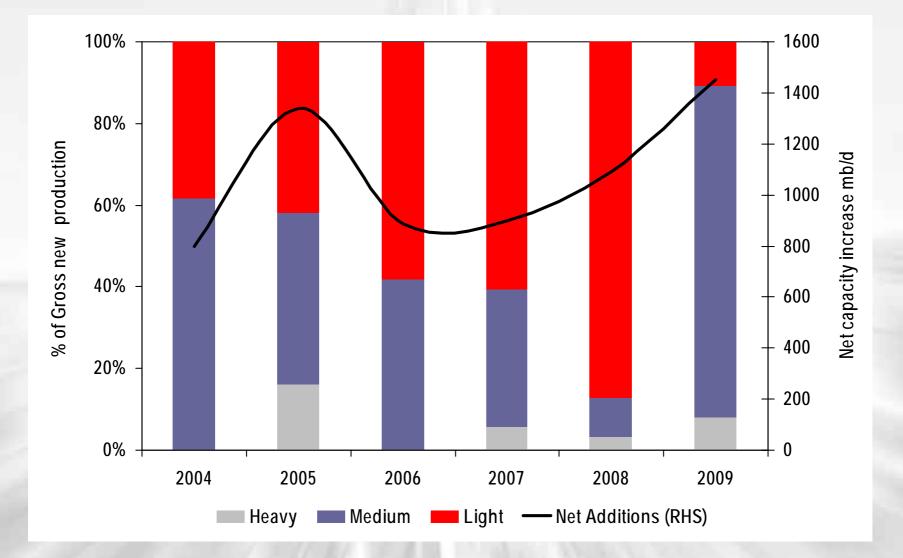
Source : OPEC, 3Q based on latest OPEC production, capacity av of SS

OPEC capacity by country, tb/d (and 2005 to and 2006)

	End 2005	End 2006	Change
Algeria	1400	1470	+70
Indonesia	970	920	-50
Iran	4170	4280	+110
Kuwait	2750	2750	
	1720	1740	+20
Libya	2600	2900	+300
Nigeria	875	900	+25
Qatar	11000	11200	+200
Saudi Arabia	2600	2700	+100
UAE	2900	3000	+100
Venezuela	30985	31860	+875
OPEC 10			
South the life	2200	2200	
	32985	34060	+875
Total OPEC 11 OPEC 11 + NGLs, Con	37195	38630	+1235

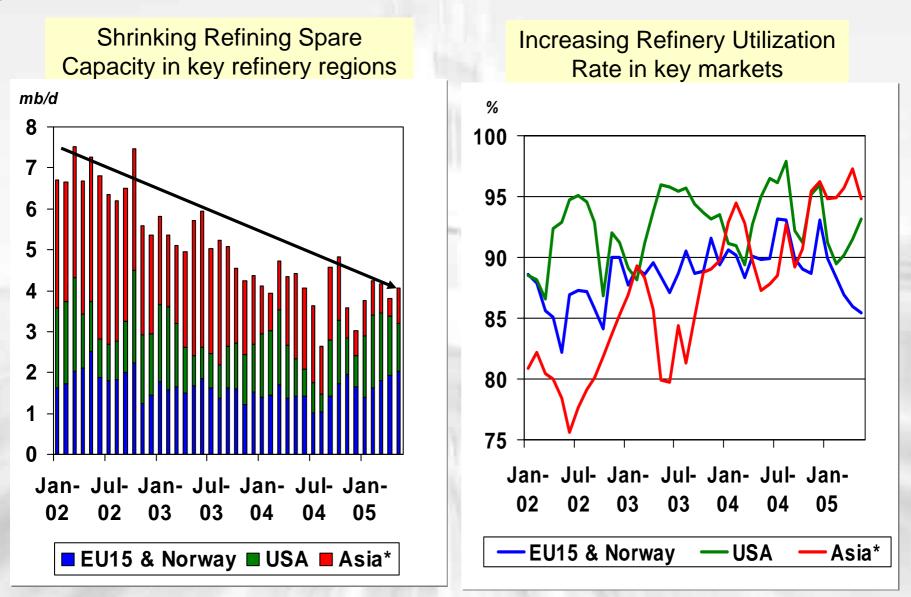
Source: OPEC, secondary sources (Iraq 2.2)

OPEC Expansion – Crude Quality



Source: OPEC; Heavy <26, Medium 26-32, Light > 32

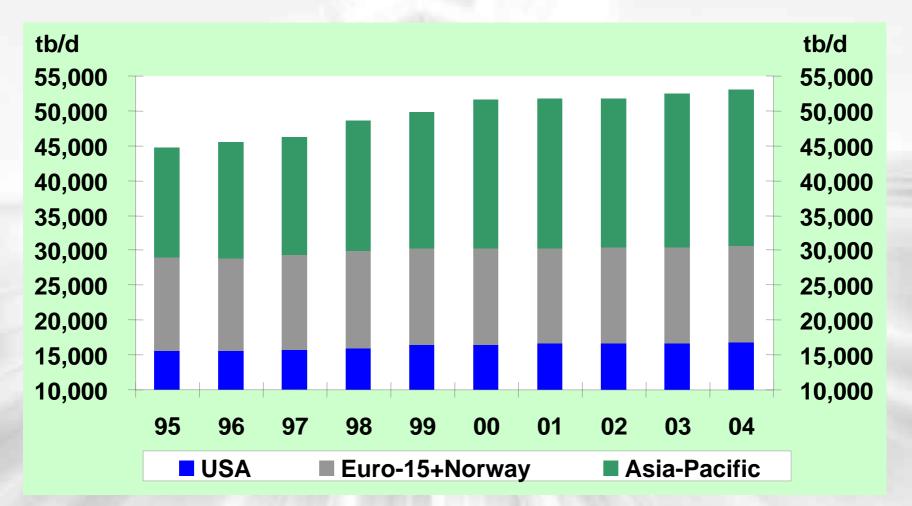
Overloading of Refining Industry



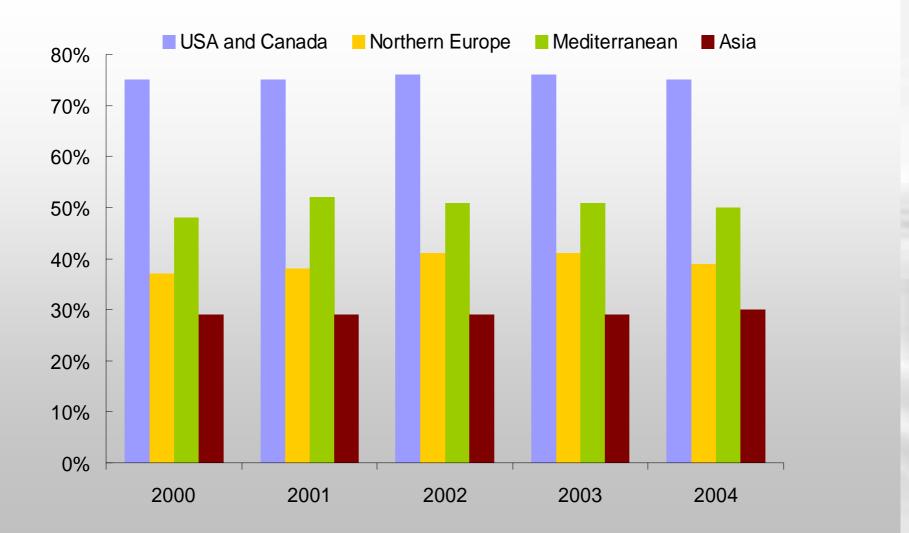
*/Asia = Japan, South Korea, China, India and Singapore. For some Asian countries May is estimated.

Refinery Capacity and Configuration in the Major Consuming Areas/Regions

Distillation capacity in major consuming areas

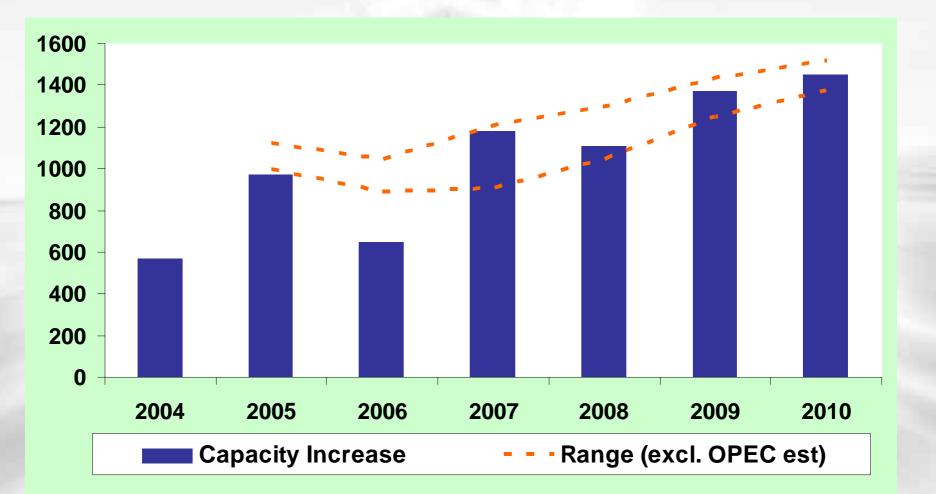


Ratio of conversion to total refinery capacity



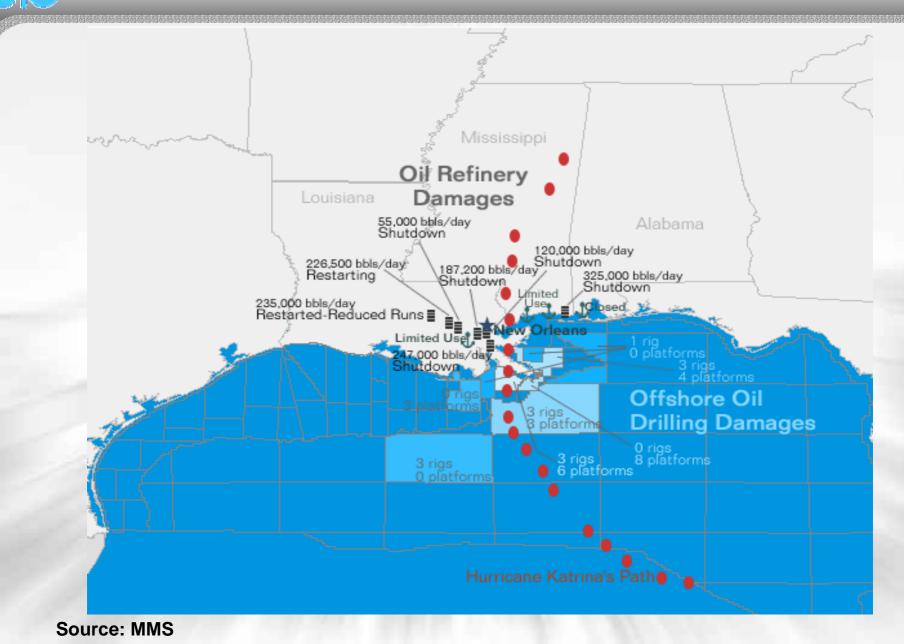
Refining Capacity Expansion Projects or Plans for the Madium Term

Crude distillation capacity (CDU) expansion (tb/d)



Sources: Capacity estimates based on published reports by different sources as well as Secretariat assessment

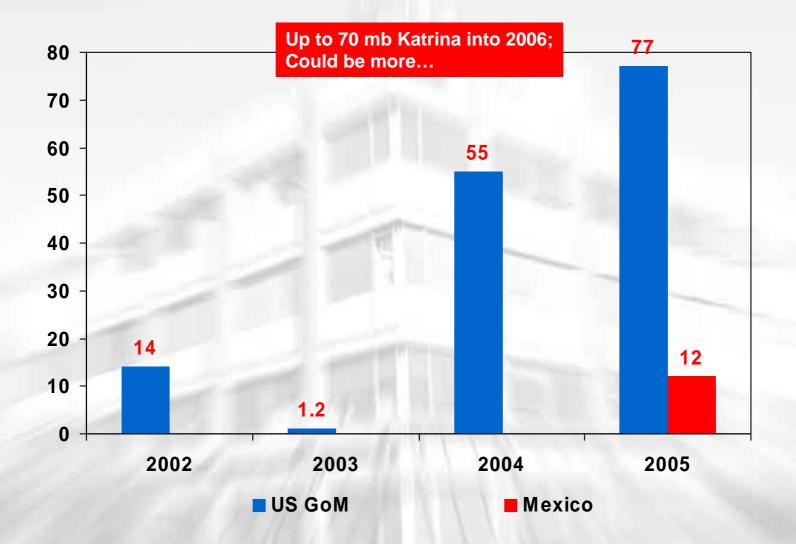
Impact of Hurricane Katrina



Assessment of full impact & the recovery process in progress

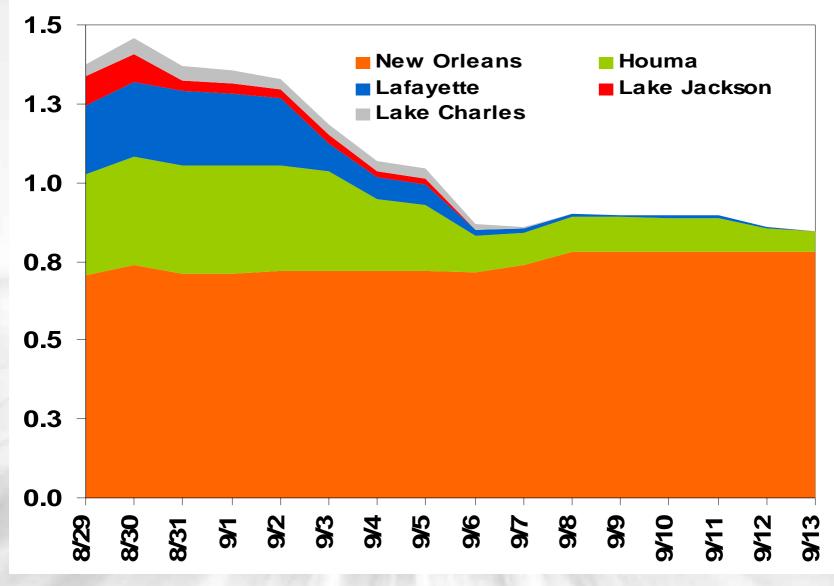
- Shut in production recovered from ~1.4 mb/d to 0.8 mb/d (60% of the production in the region), with a cumulative production loss of >20 mb so far
- Current gas shut-in 3.7 bcf/d (37% capacity with >100bcf)
- The refinery shut-down in the region peaked ~3.2 mb/d. Four refineries (860 tb/d) shut at least early 2006 & five others are running at reduced capacity, but improving fast
- Major regional product pipelines (e.g., colonial & plantation) back to 100% capacity; also LOOP terminal working at 75% capacity

Impact of hurricanes in the GoM area (mb)



Source: MMS, OPEC; Ivan projected into 2005; Katrina into 2006

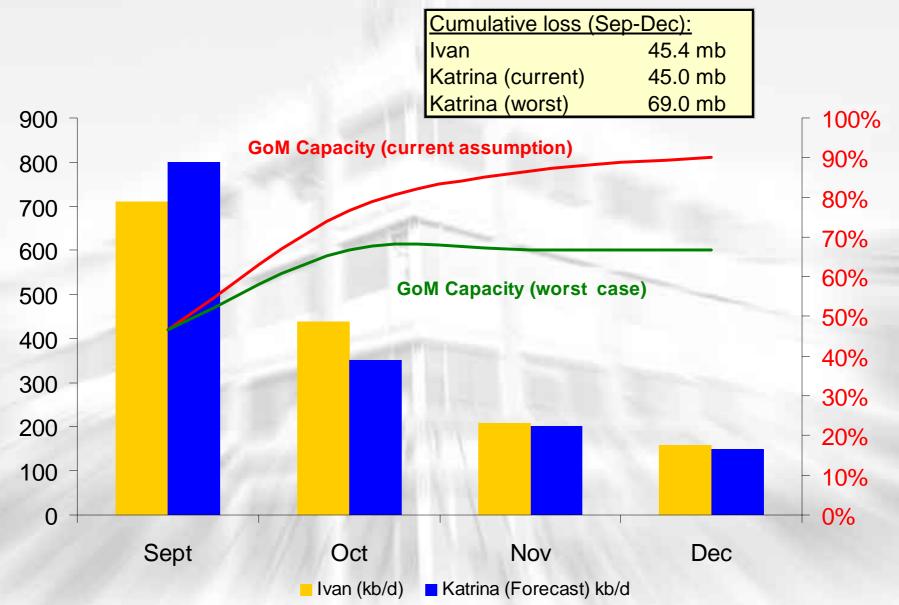
Gold Production after Katrina (mb/d)



Source: MMS; OPEC projected

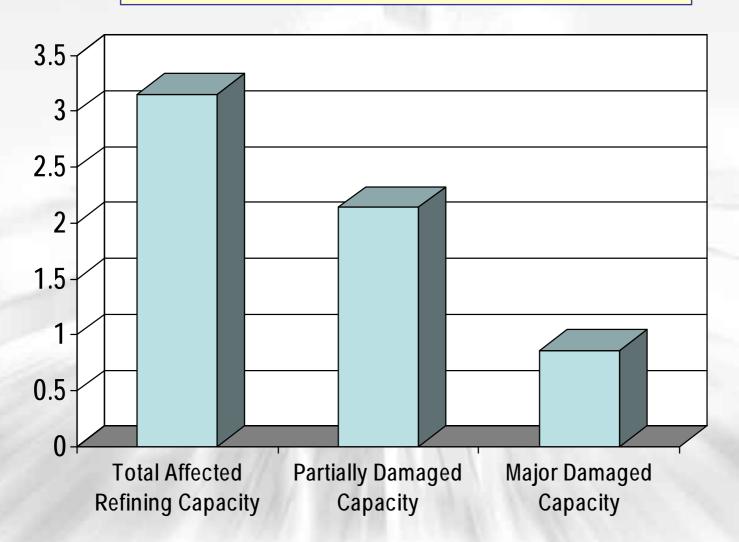
US Gulf of Mexico (GoM): Loss in production

(September – December)

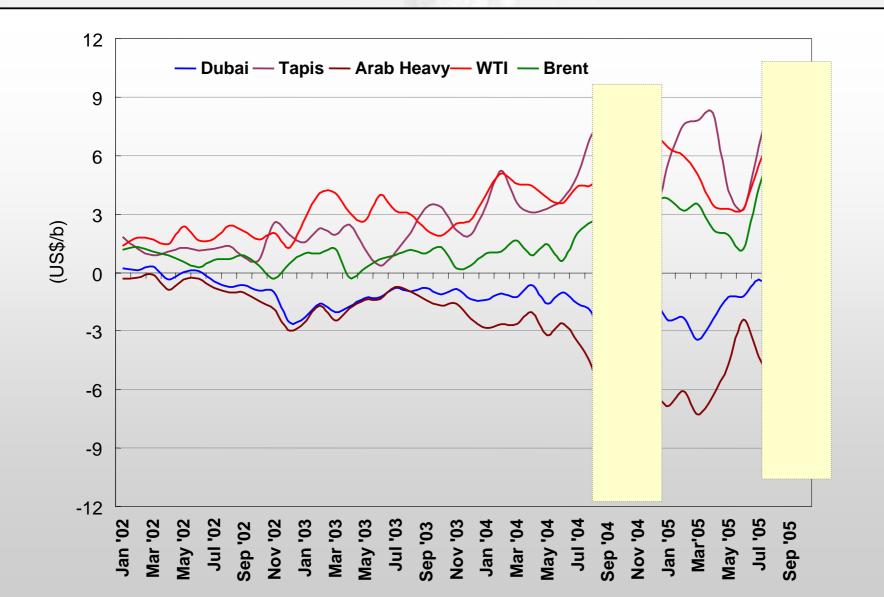


Product market conditions after Katrina

Katrina's impact on the refining industry



Widening differentials Spot differentials to OPEC Ref. Basket

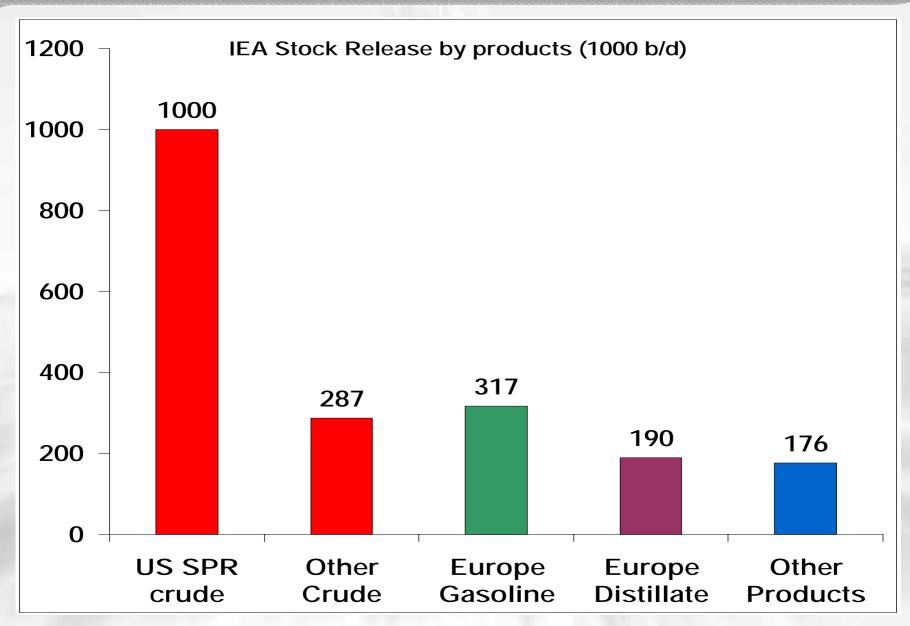


US inventories Impact of Hurricane Katrina

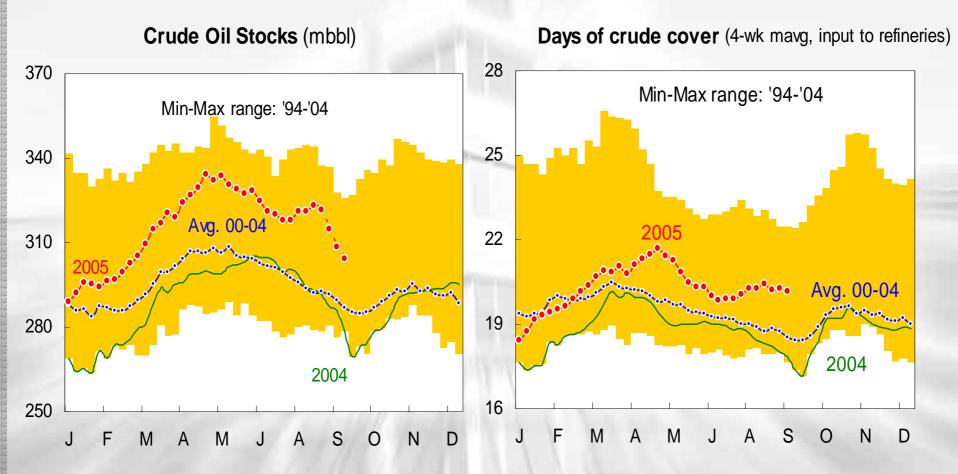
Measures:

- IEA SPR release for one month (the first since 1991)
 1.29 mb/d of crude
 0.69 mb/d of products
- 12.5 mb as loans from US SPR
- Easing of gasoline & diesel specifications
- Easing of shipping rules

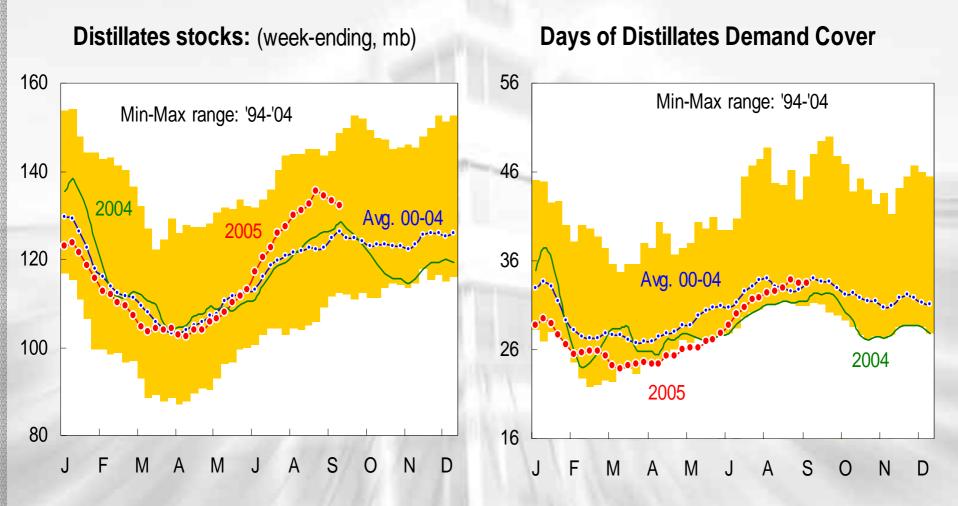
Seirotnevni 2U Impact of Hurricane Katrina



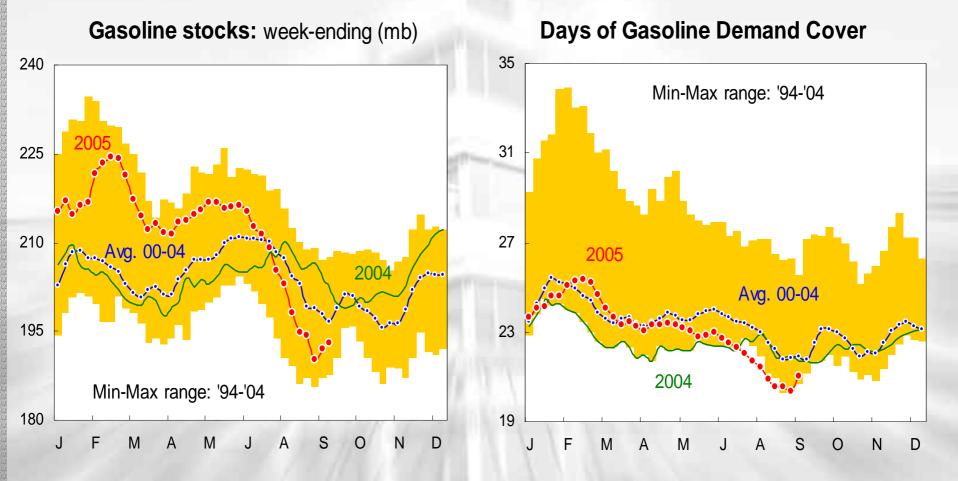
Commercial oil stock levels in the USA week-ending, mb



US distillate stocks & demand cover



JS gasoline stocks & demand cover



38



US inventories Impact of Hurricane Katrina

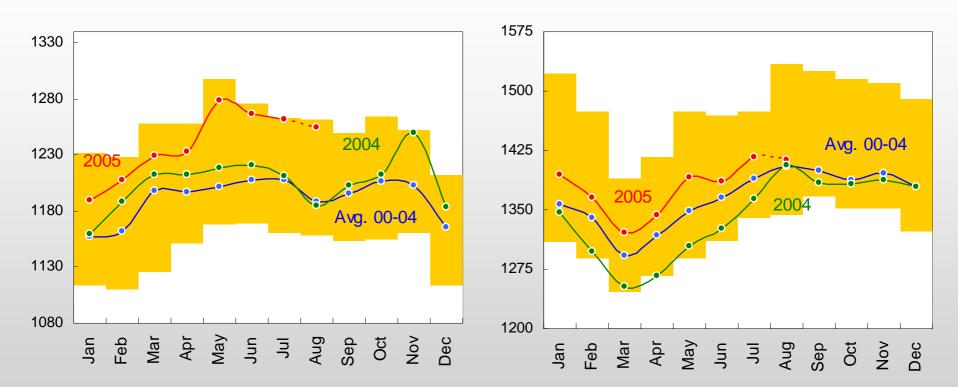
Implication:

- Crude supply in therefore not the problem
 - There could even be an over crude supply:
 - The full 30 mb US SPR crude release will probably not take place
 - US refiners might end up importing less crude
- Distillate stocks should still manageable, but if the weather turns out to be cold and natural gas prices move higher, this could increase concern for the winter season.
- On gasoline side, if refining capacity losses are prolonged significant shortages in gasoline can be expected. However if demand is reduced more than expected, the impact of this shortage will be less.

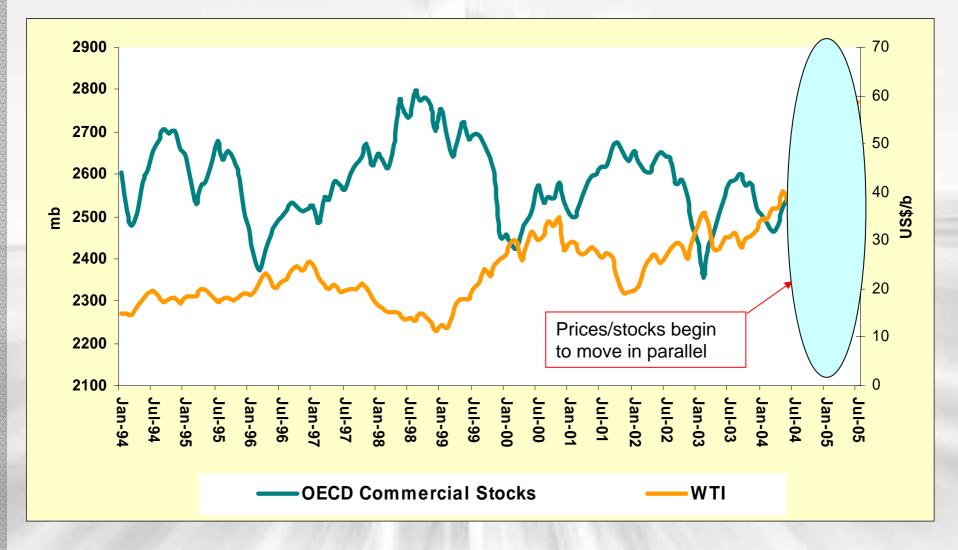




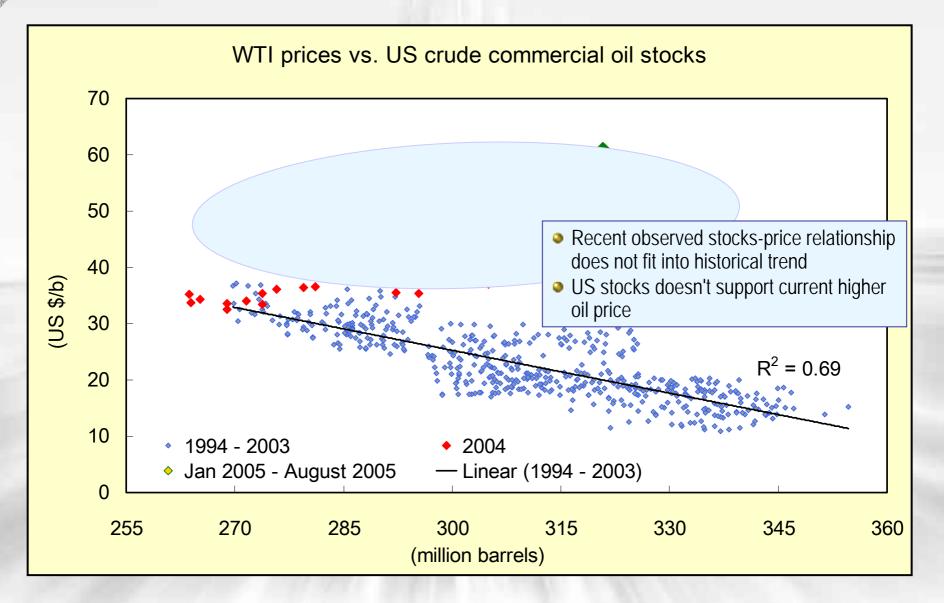
Products



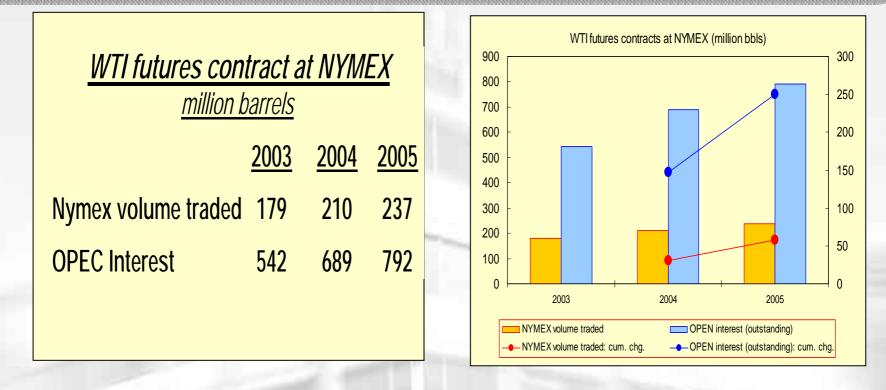
Traditional inverse price/stock relation



Increasing activity in the Futures market

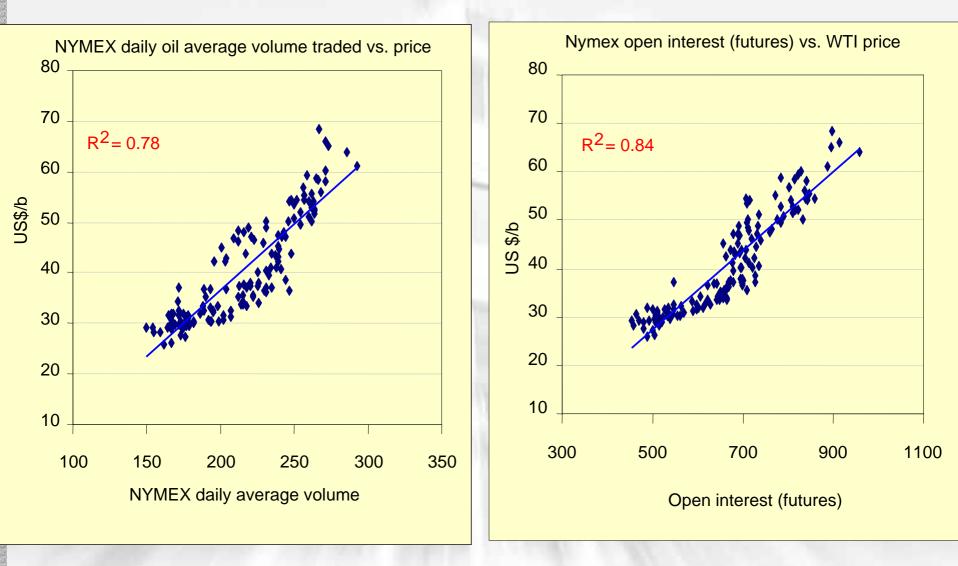


Growing use of oil futures as a form inemurizati laionanii io

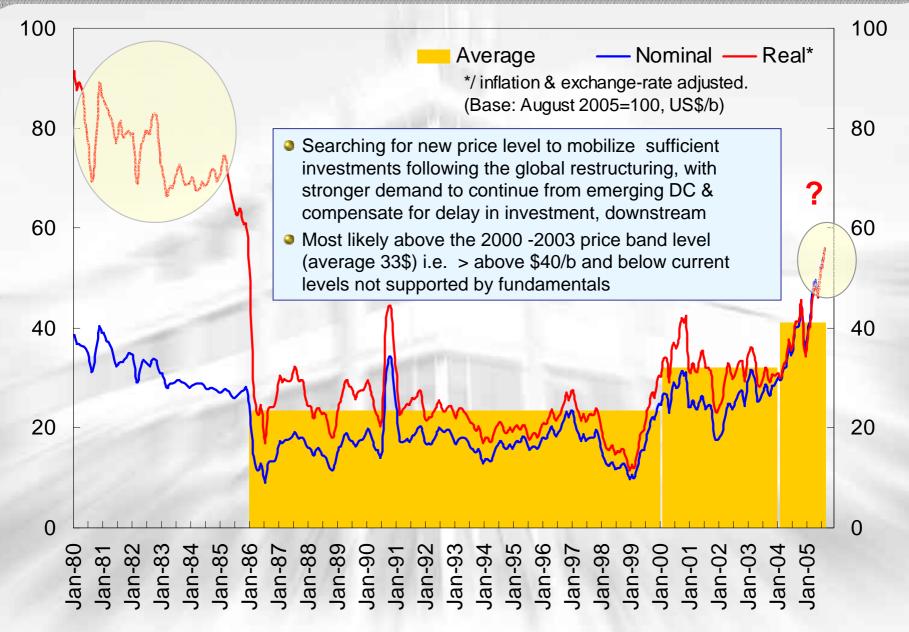


- growing use of oil futures as a form of financial instrument
 - NYMEX hit a record high in 2005 surpassing the record in 2004. The average volume of contracts rose in 2005 to 237 million contracts compared to 179 million contracts in 2003
 - OPEN interest also shows a higher record in 2005 of 792 million contracts compared to 542 million contracts in 2003

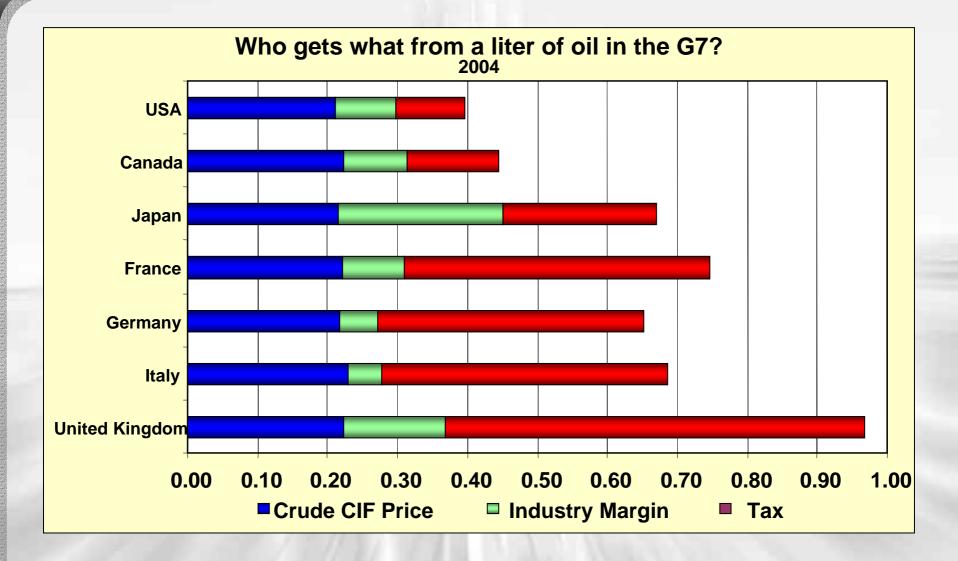
Increasing activity in the Futures market

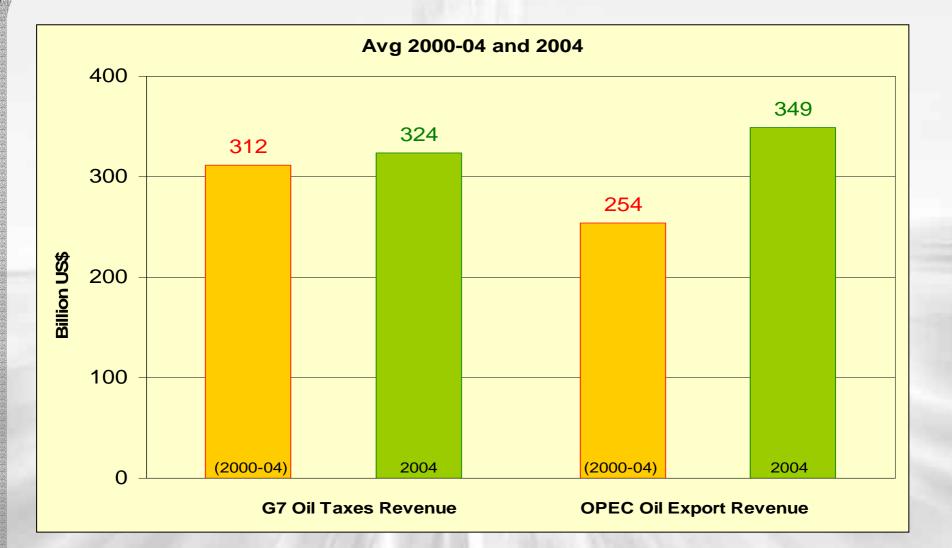


The price of oil: (d\\$2U), distinguishing between nominal and real,

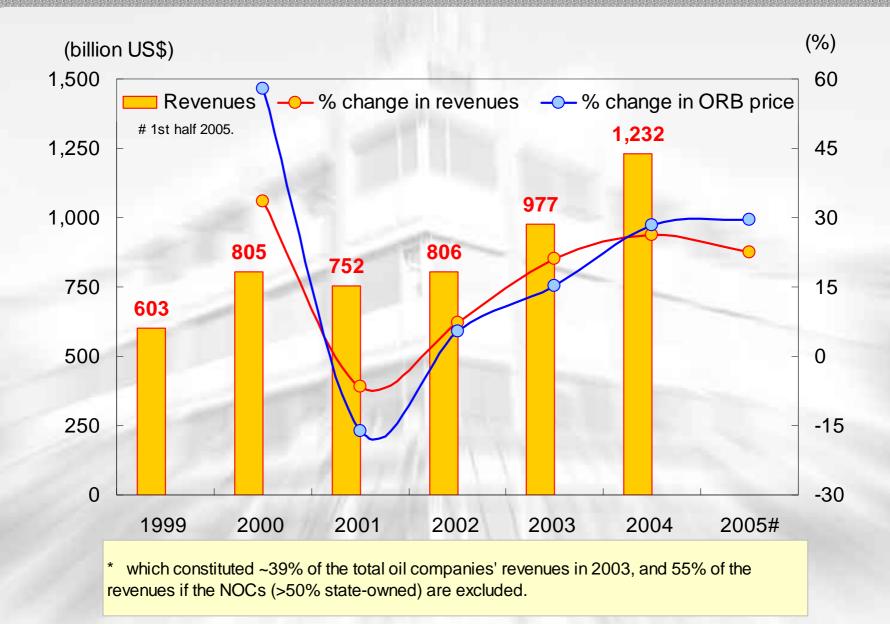


Oil taxes & export revenues: who gets what?

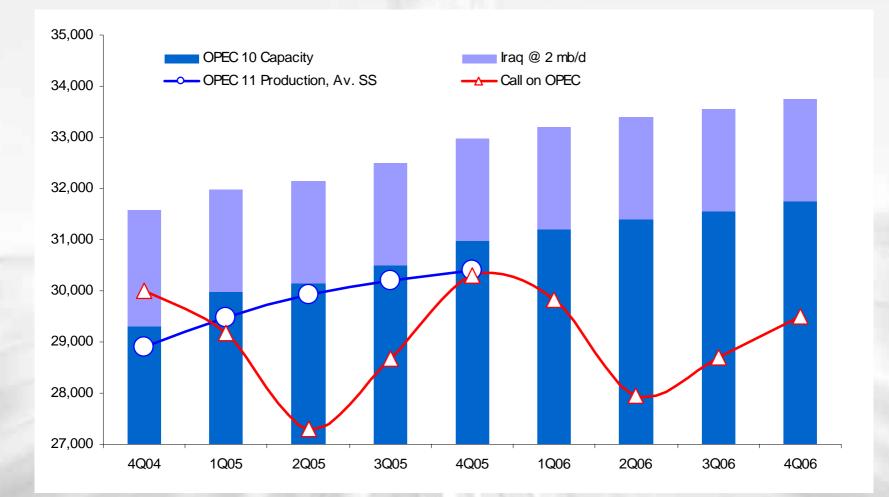




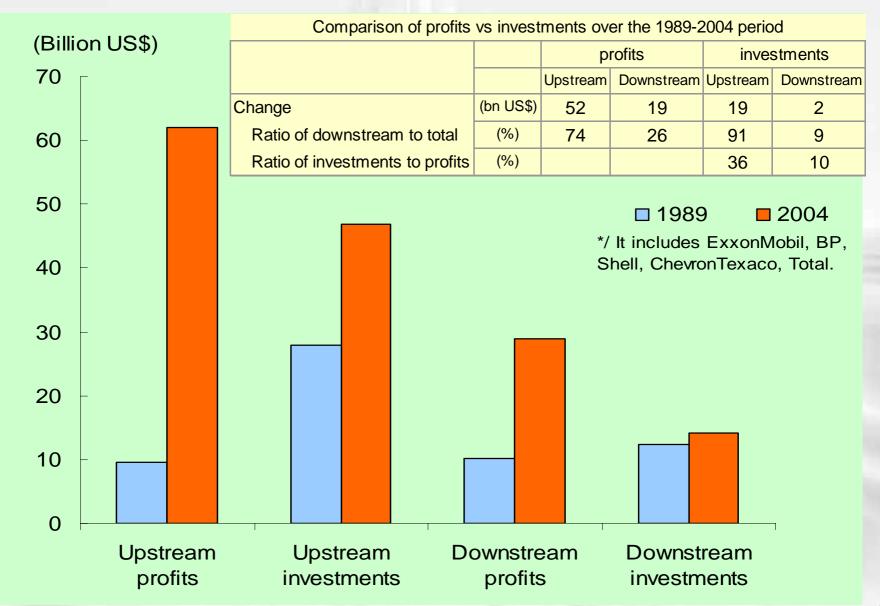
Revenues of major international oil companies*



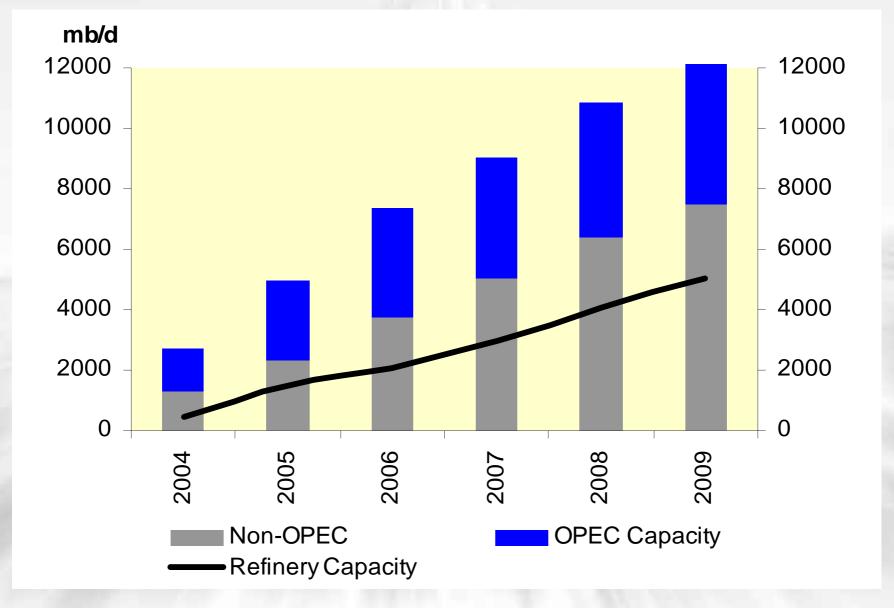
OPEC Crude, Production and Requirements in the Short term



Comparison of profits vs investments of major international oil companies* (1989 - 2004)



Expected cumulative growth in OPEC capacity, non-OPEC supply and refinery capacity



- The year-to-date OPEC Reference Basket price for 2005 has risen by about \$5/bl or 10% since last May.
- The impact on OECD economies in 2006 of such a 10% increase will be in the region of between 0.1-0.15%.

 DCs may also see growth reduced by a similar amount on average but the impact on poorest countries with high shares of oil imports in GDP may be 0.3-0.4% Many governments in Asia have implemented policies to reduce fuel subsidies. Cuts in subsidies is likely reduce consumer spending and growth in many DCs

 Oil exporters will benefit from higher prices, as will their trading partners as the oil revenues are recycled. OPEC imports rose by \$70/b in 2004 with a much larger increase expected this year.

 Overall impact on 2006 world economic growth of a 10% price increase will be about 0.15%



- During 2004 and in the first 3Q of 2005, fundamental factors both in upstream and downstream sectors were major contributors to higher oil prices.
- Supply fears and consequent speculative buying magnified price movements on the upside.
- The current consensus is that in the near term there is no significant shift in the supply/demand balance, particularly in the downstream sector; hence, no major change in prices is expected.

- World oil demand in the coming quarter is expected to reach a record high level approaching 86 mb/d. The call on OPEC crude at 30.4 mb/d will leave a lower level of spare capacity.
- The bulk of new refinery capacity will be in the Far East and Middle East, rather than in Europe and the USA.
- This places the USA at an even greater risk of supply disruption as the volume of imports become a greater percentage of the products supply

Oil market outlook

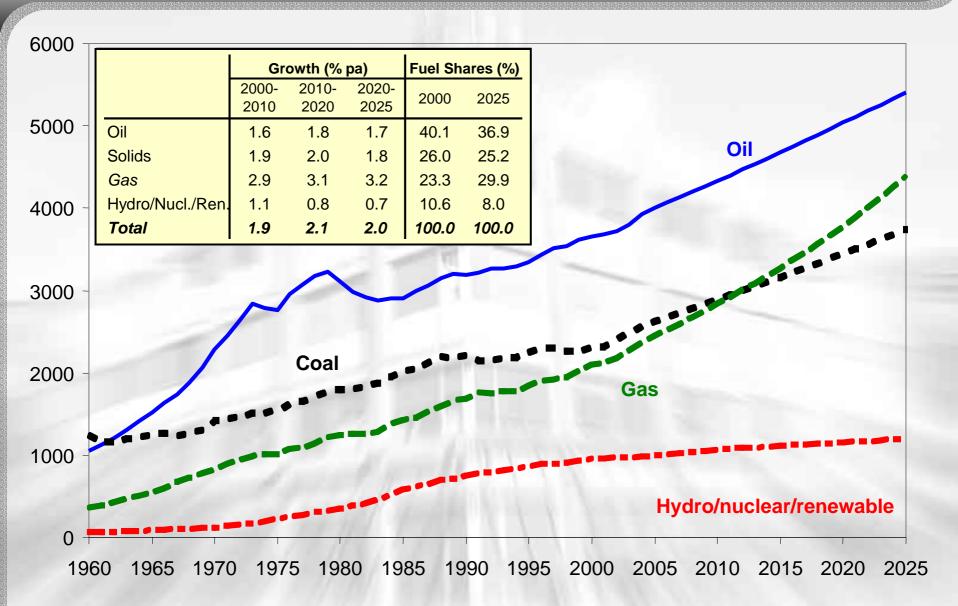
- Looking further ahead, we expect some deceleration of the World GDP growth rate due to cyclical patterns as well as the impact of higher oil prices. In 2006, this is likely to be about 0.5-0.6%.
- Supply constraint will ease slightly in 2006. A question remains on the behaviour of demand.
- An industry survey before Katrina showed projections for WTI crude at \$56/b in 4Q05, declining to \$50/b in 2006.
- Given the healthy situation in crude oil stocks, combined with the release of SPR, crude developments are not expected to push prices higher. However, the tight product situation will be the main driver of the market.



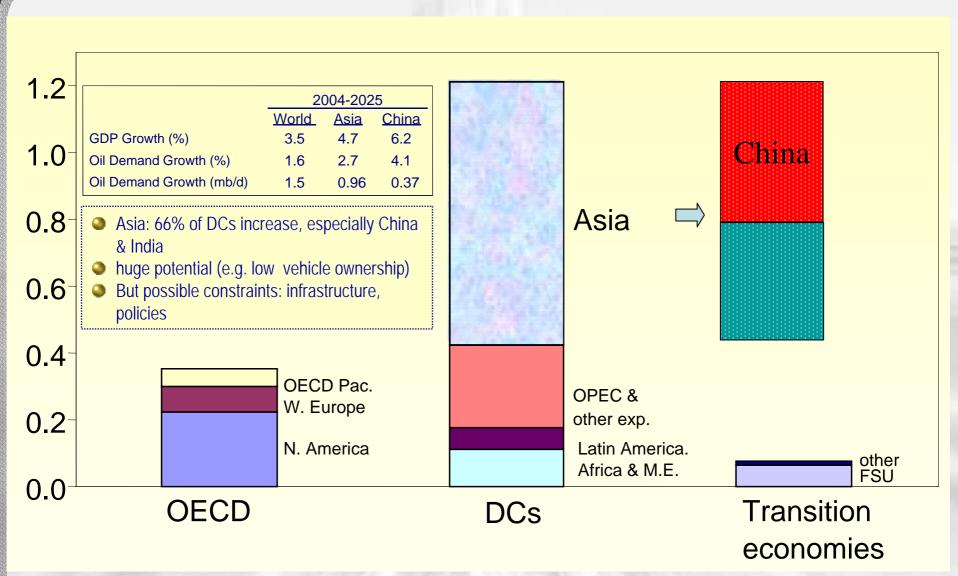
OPEC-Northeast Asia

Enhancing OPEC-Northeast Asia relationship

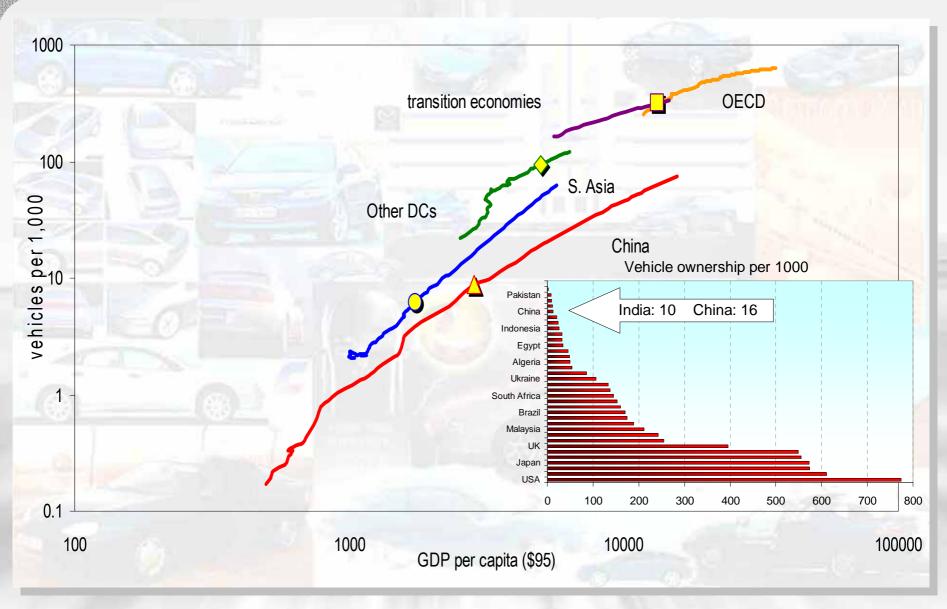
World energy demand by fuel type (mtoe)



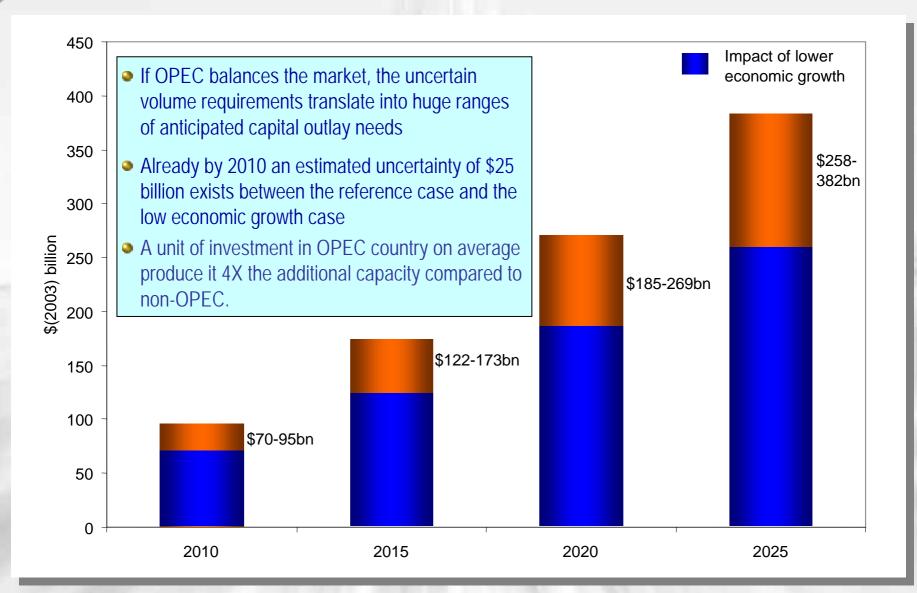
Annual growth in oil demand, 2004-2025, Reference, mb/d pa



Vehicle intensities 1970-2025

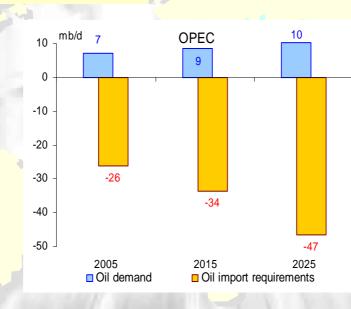


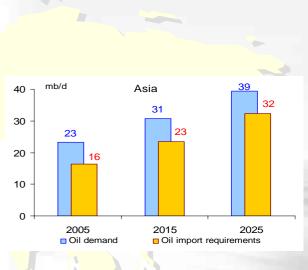
Cumulative OPEC investment requirements: Huge uncertainties in future oil demand translate into huge uncertainties and risks for future OPEC investment



Regional oil demand & net import requirements (mb/d)

(mb/d)	Oil	Demar	nd	Net Oil Import Req.				
	2005	2015	2025	2005	2015	2025		
North America	26	28	29	11	13	14		
Latin America	5	6	7	0	0	1		
Europe	16	16	17	10	12	13		
FSU	4	4	5	-8	-10	-10		
Asia	23	31	39	16	23	32		
China	7	11	14	3	7	11		
M.East & Africa	3	4	5	-3	-3	-2		
OPEC	7	9	10	-26	-34	-47		

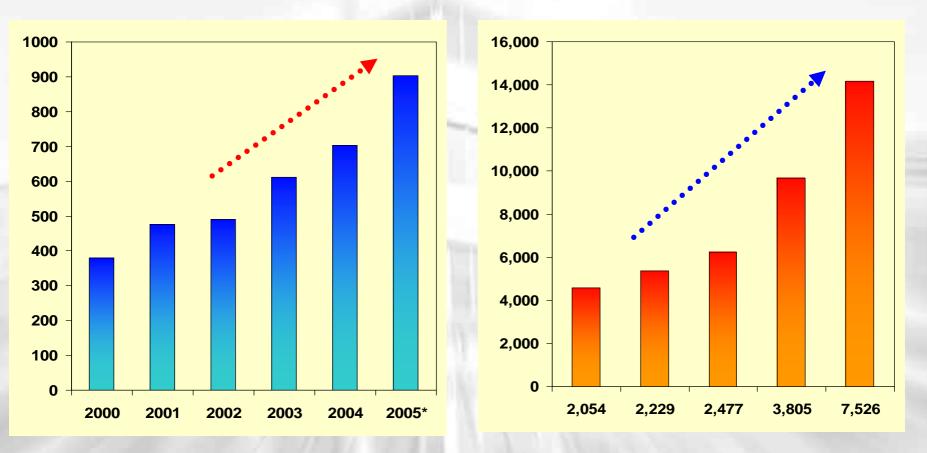




M.East OPEC contribution to world oil trade is expected to increase from ~30% to ~40% in 2025.

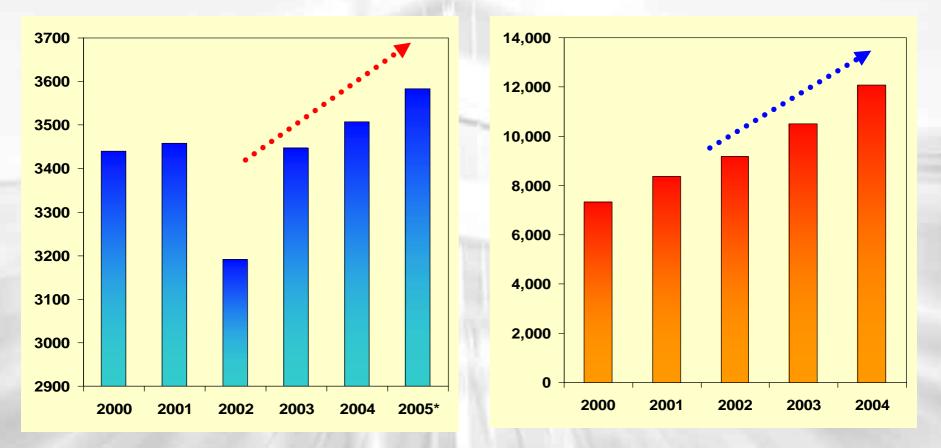
OPEC Middle East & China Trade

China: crude oil Imports from Middle East OPEC Middle East: Imports from China (1000 b/d) (Mill. US \$)



OPEC Middle East & Japan Trade

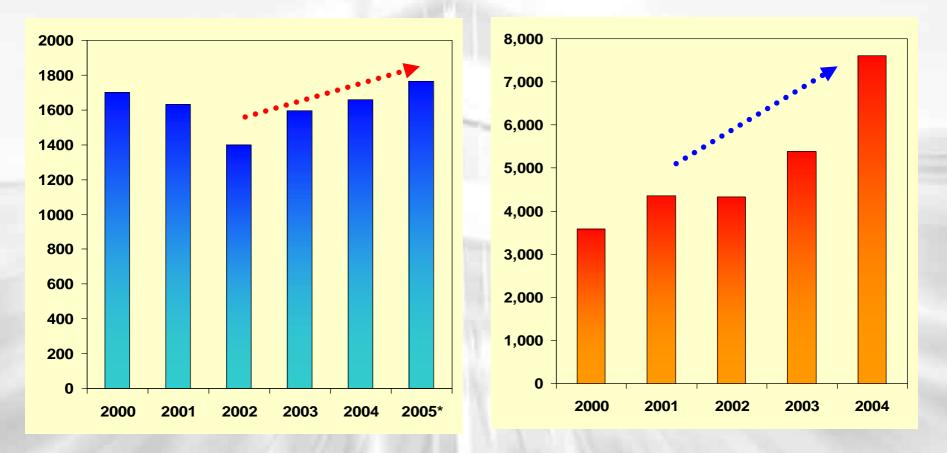
Japan: crude oil Imports from Middle East OPEC Middle East: Imports from Japan (1000 b/d) (Mill. US \$)



OPEC Middle East & Rep. of Korea Trade

South Korea: crude oil Imports from Middle East (1000 b/d)

OPEC Middle East: Imports from South Korea (Mill. US \$)



Dialogue, partnership and cooperation

- Growing interdependency and enhancement of security of supply for the consumer and security of demand for producers.
- OPEC has made substantial investments in the upstream. Positive prospects for Asian investment in OPEC producers
- To enhance relations, some OPEC Member Countries have made investments in the downstream sector of some major consumers, such as Korea and China, in addition to other countries.
- The future will provide more space for richer ties and deeper partnership between OPEC and Northeast Asian countries.





World oil demand & supply balance (mb/d)

	<u>1Q05</u>	<u>2Q05</u>	<u>3Q05</u>	<u>4Q05</u>	<u>2005</u>	<u>05/04</u>	<u>1Q06</u>	<u>2Q06</u>	<u>3Q06</u>	<u>4Q06</u>	<u>2006</u>	<u>06/05</u>
<u>Demand (a)</u>	83.6	82.0	83.0	85.3	83.5	1.4	85.3	83.4	84.4	86.9	85.0	1.5
<u>Supply</u>	83.9	84.6	84.5	85.2	84.6	1.7						
Non-OPEC (b)	50.3	50.5	50.1	50.8	50.4	0.6	51.1	50.9	51.2	52.7	51.5	1.1
OPEC NGL (c)	4.1	4.2	4.2	4.3	4.2	0.2	4.4	4.5	4.6	4.7	4.5	0.3
OPEC Crude oil	29.5	29.9	30.2	30.2	30.0	0.9	-					
a-(b+c)	29.2	27.3	28.7	30.3	28.9	0.6	29.8	28.0	28.7	29.5	29.0	0.1
Balance (d)	0.3	2.6	1.5	-0.1	1.1							
Seasonal stock chg.: ('00-'04)	-0.7	0.9	0.3	-0.6			-0.7	0.9	0.3	-0.6		
Stock change (e)												
OECD commercial	-0.1	1.1										
OECD SPR	0.1	0.1										
Oil in Water	0.2	0.0										
Remaining to Balance (d-e)	0.0	1.4	Pi	100	1.1	11	1.110					