

Indian Companies: Domestic versus Overseas Opportunities

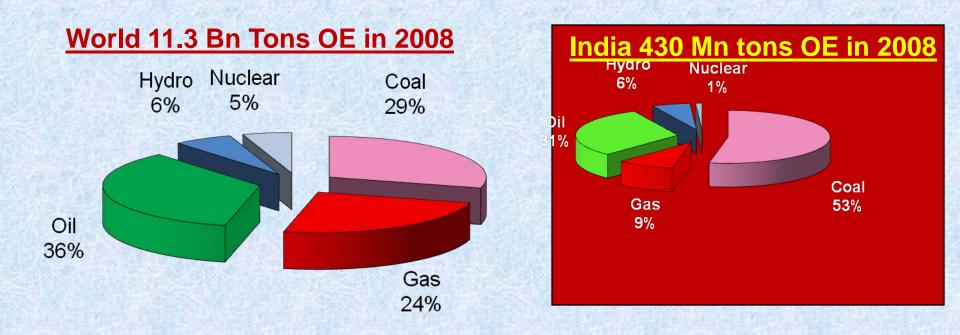
8th Petro India 2009 24th -25th November 2009 New Delhi



Sequence

- Energy Overview
- Indian Hydrocarbon Scenario
- Indian Companies Overseas
- The OVL story
- Global Hydrocarbon Opportunities
- Conclusions

World & India Energy Consumption: A comparative



- India has 16% of world's Population & is 5th Largest Consumer of Energy, Consuming 3.5% of the world's energy
- Per capita energy consumption at 0.5 MMTOE 1/5th of world average – likely to grow to 1.200 MMTOE by 2030
- Energy Demand may grow at 3.5 % 3.7 % CAGR (2005-2030)

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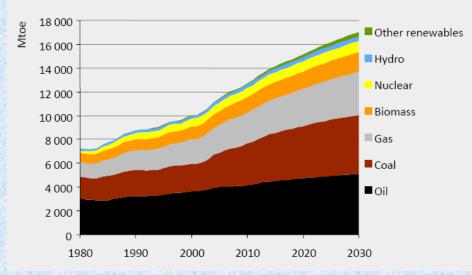
Source: BP Statistical Review 2009, TERI, EIA & Planning Commission



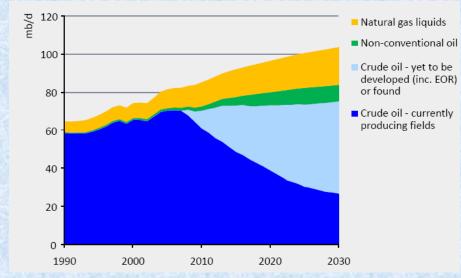
World Energy Demand

World Primary Energy Demand

World Hydrocarbon Demand



Source: R.J.Hones, World Energy outlook, 2008, Petrotech 2009

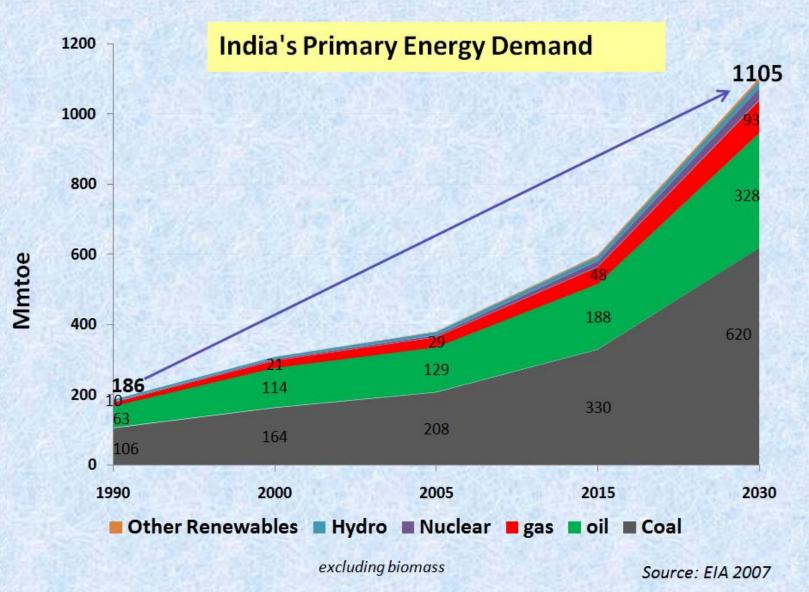


Source: R.J.Hones, World Energy outlook, 2008, Petrotech 2009

World energy demand expands by 45% between now and 2030, an average rate of increase by 1.6% per year Even if oil demand was to remain flat to 2030, 45million bopd would be required just to offset decline from existing fields

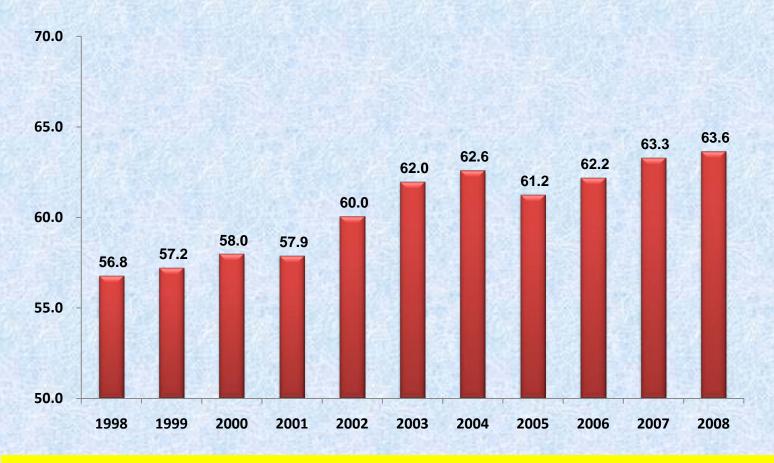
Hydrocarbons to stay dominant







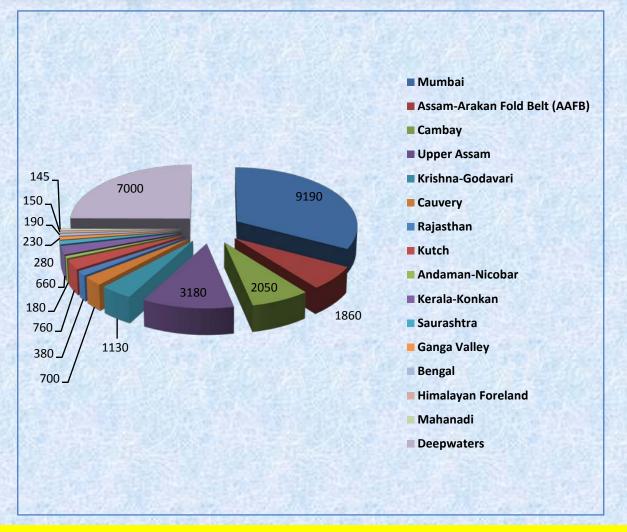
India: Oil and Gas Production (MMtoe)



India's domestic oil & gas production almost stagnant for last 5 years



India-Hydrocarbon Resources



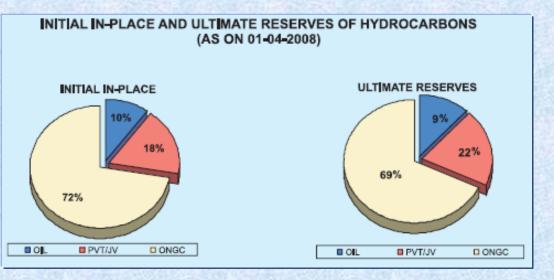
Total hydrocarbon resources: 28,085 MMT

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Total Hydrocarbon Reserves of India

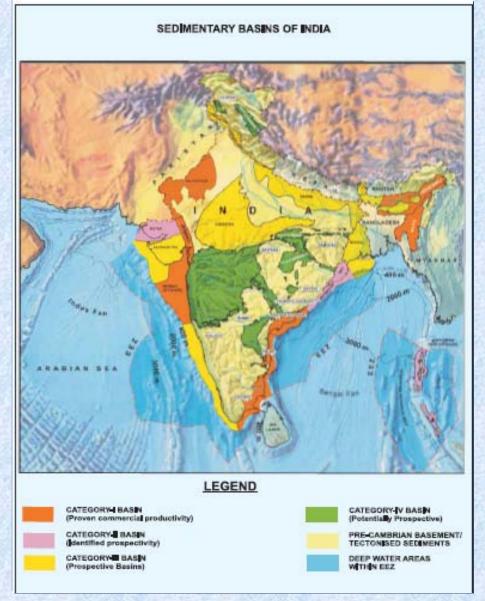
S. No.	Parameter	Item	ONGC	OIL	Pvt/JVs	Total
1	Initial In-place reserves	Gas (BCM)	2016.79	242.27	980.42	3239.48
		Oil (MMT)	4588.06	668.17	638.82	5895.00
		O+OEG (MMT)	6604.85	910.44	1619.24	9134.53
2	Ultimate Reserves	Gas (BCM)	1083.48	128.18	550.99	1755.44
		Oil (MMT)	1276.05	197.55	172.35	1645.95
		O+OEG (MMT)	2359.53	325.73	723.34	3401.39



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INDIA: Reserves and Production

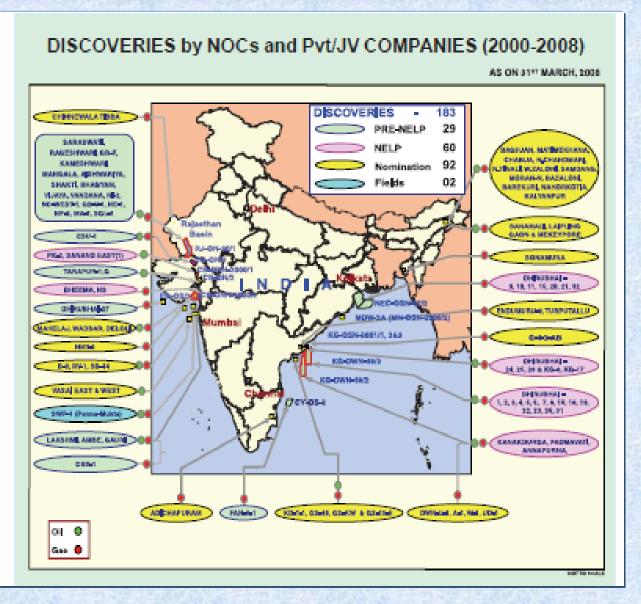


Production from only Six basins. Assam & AAFB Cambay Mumbai Krishna-Godavari Cauvery Rajasthan

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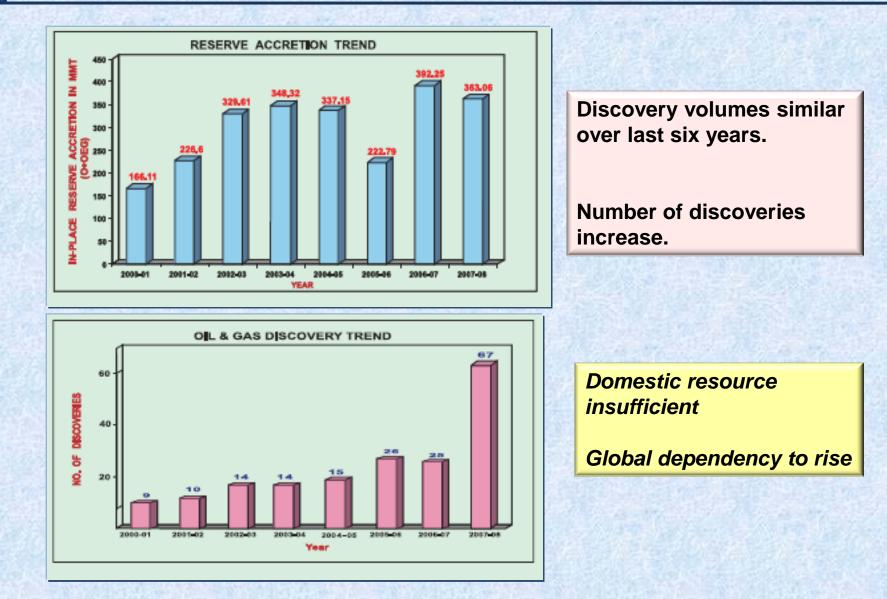
INDIA: Hydrocarbon Discoveries (2000-2008)



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India: Reserve accretion Trend (2000-2008)





Current opportunities primarily in 1. NELP Blocks for conventional hydrocarbon

2. CBM (Coal Bed Methane)

Gas hydrates is a potential future resource in the experimental/research stage.



Why Overseas Opportunities

Securing overseas reserves for the Country

- Attractive opportunities in rich petroliferous basins
- Global spread will help balance risk
- Insulation from price fluctuations



Presence of Indian Companies overseas

COMPANY	COUNTRY	EXPLORATORY ASSETS	PRODUCING ASSETS
RIL	07	13	1
ESSAR	03	06	NIL
VIDEOCON	05	14	NIL
PETRODYNE	02	03	NIL

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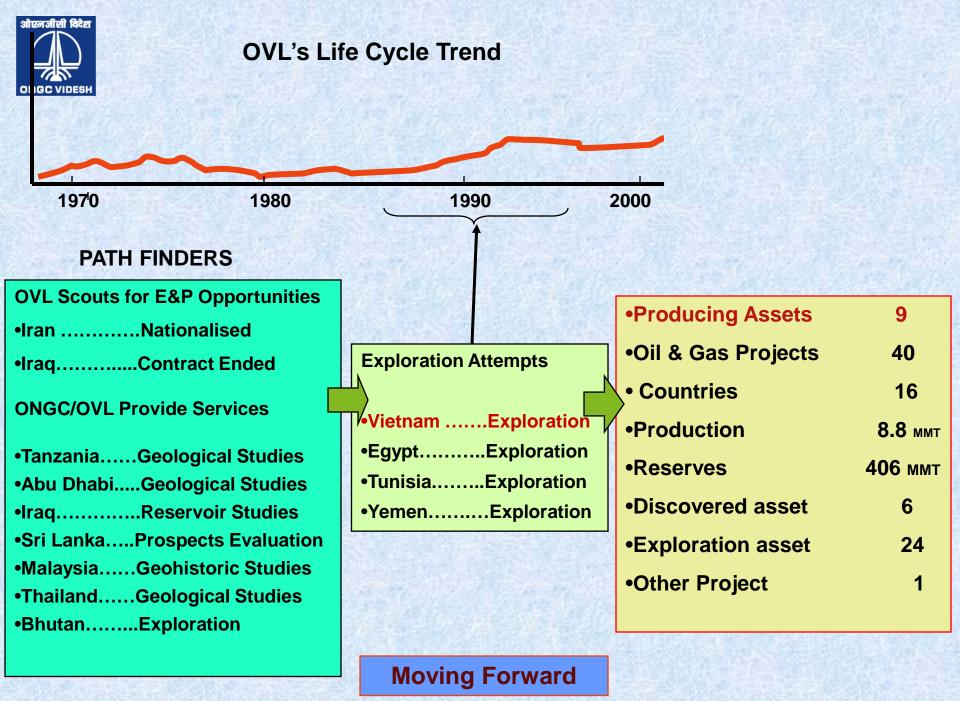
Source: Company websites and public domain information



Presence of Indian Companies overseas

COMPANY	COUNTRY	EXPLORATORY ASSETS	PRODUCING ASSETS
OVL	16	31	09
OIL	07	11	NIL
ЮС	04	07	NIL
BPCL	05	16	NIL
HPCL	03	04	NIL
GAIL	02	03	NIL
GSPC	01	06	NIL

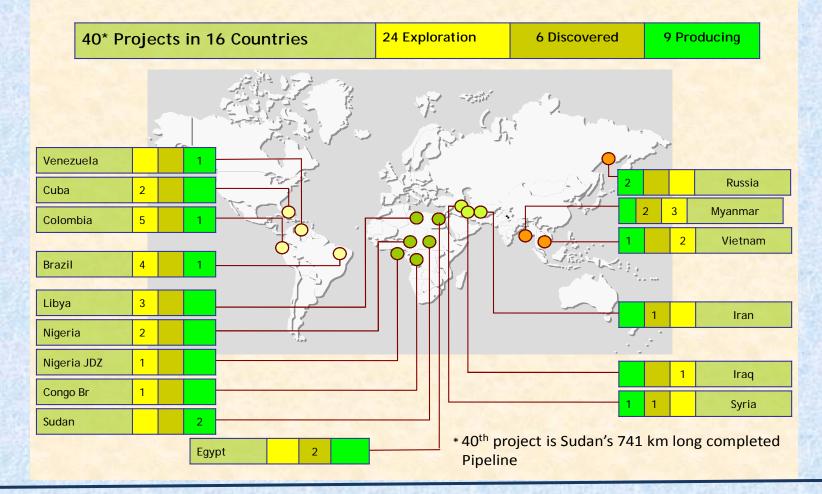
Source: Company websites and public domain information





OVL's International holdings

International Presence



OVL's global foot print



MMTOE

OVL's : Reserve (1.4.2009)

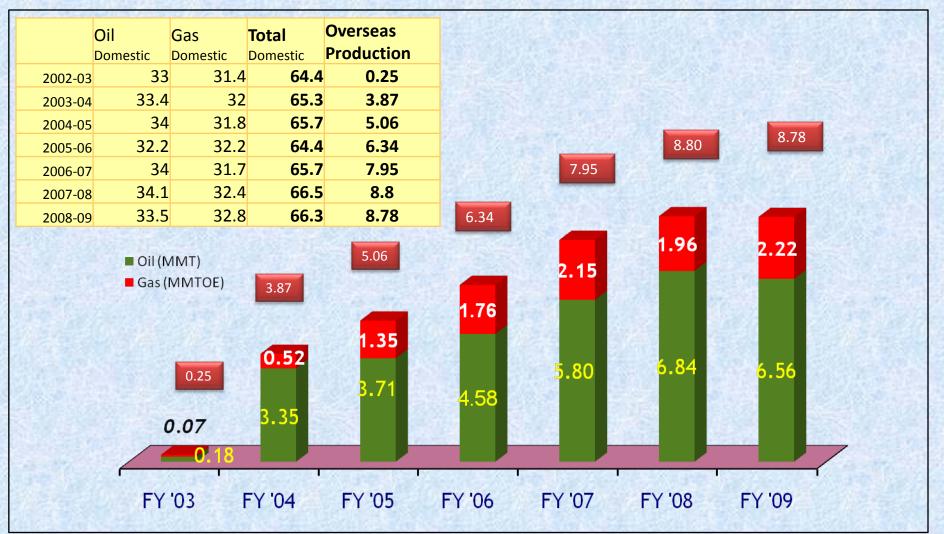
OVL RESERVES (O+OEG) 500 450 406.77 POSSIBLE PROBABLE 400 PROVEN 350 280.46 242.67 240.26 300 230.15 250 224.77 213.44 200 148.65 150 100 50 26.65 0 2001-02 2002-03 2003-04 2004-05 2005-06 2006-07 2007-08 2008-09 2000-01 YEARS

What OVL holds today



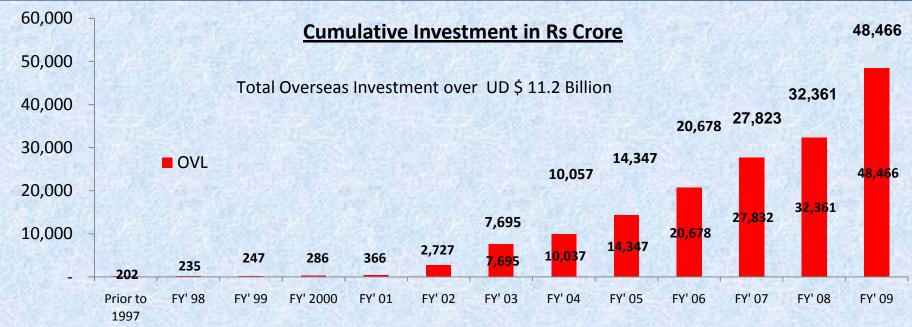
OVL Today : Oil & Gas Production (MMTOE)

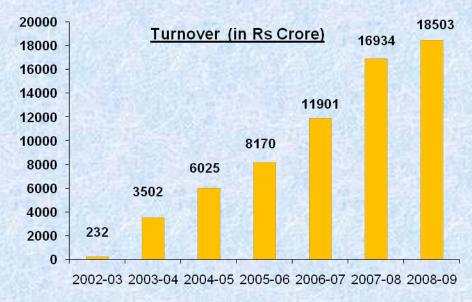
13 % of Domestic Oil & Gas Production

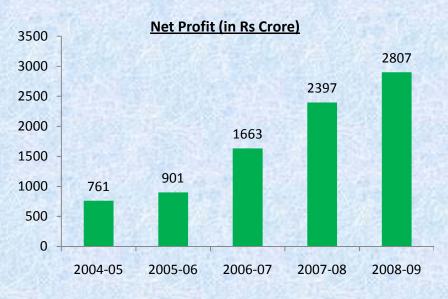




OVL's Financial Performance

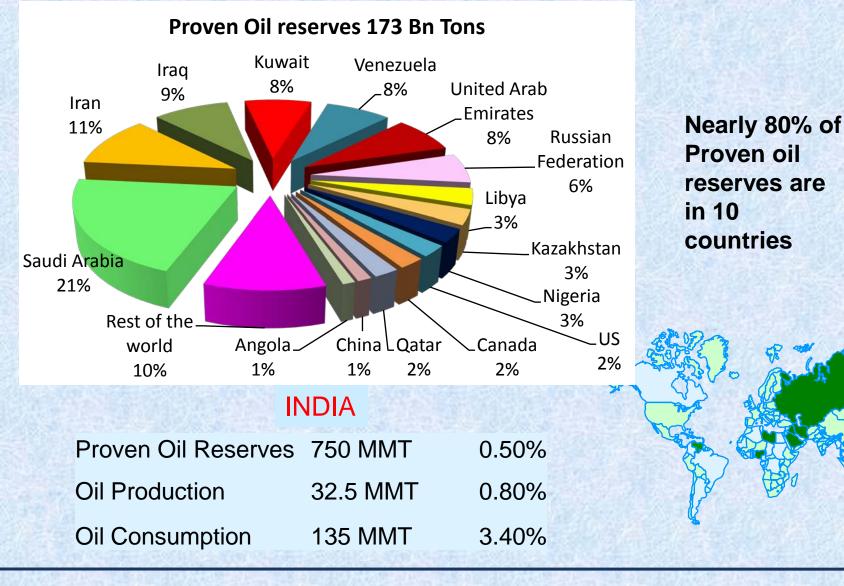






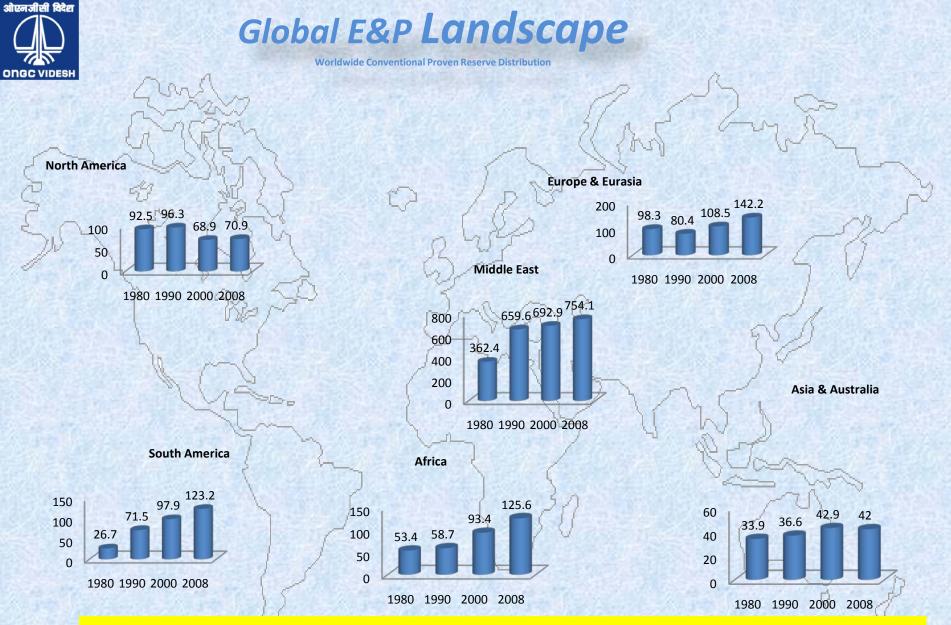


Where are the Reserves



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Source: Indian Journals & B P Stats 2009



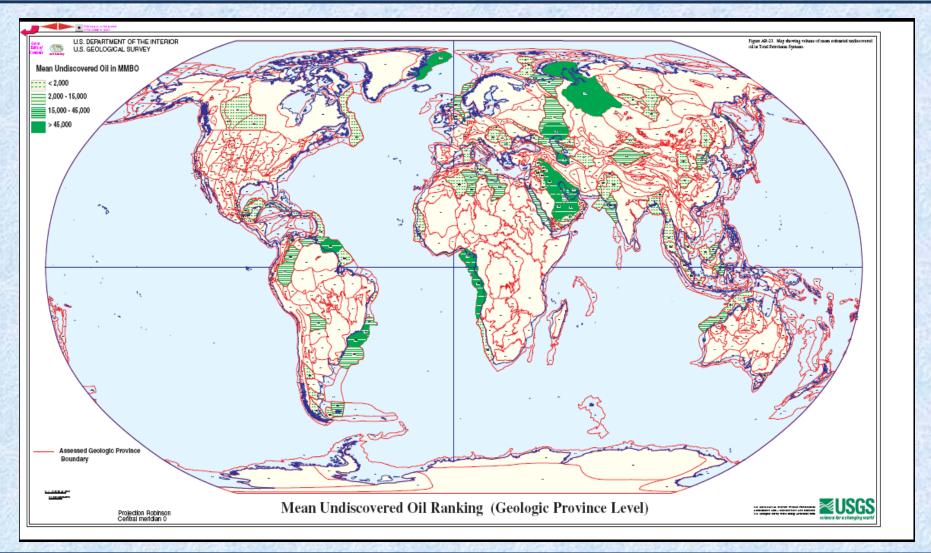
Other than the Middle East, South America & Africa are the only region that has been able to consistently grow conventional reserves over the last 20 years

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Note: Does not include undeveloped Oil Sands and Unconventional Reserves. Source: BP Statistical Review 2008.



Undiscovered Oil

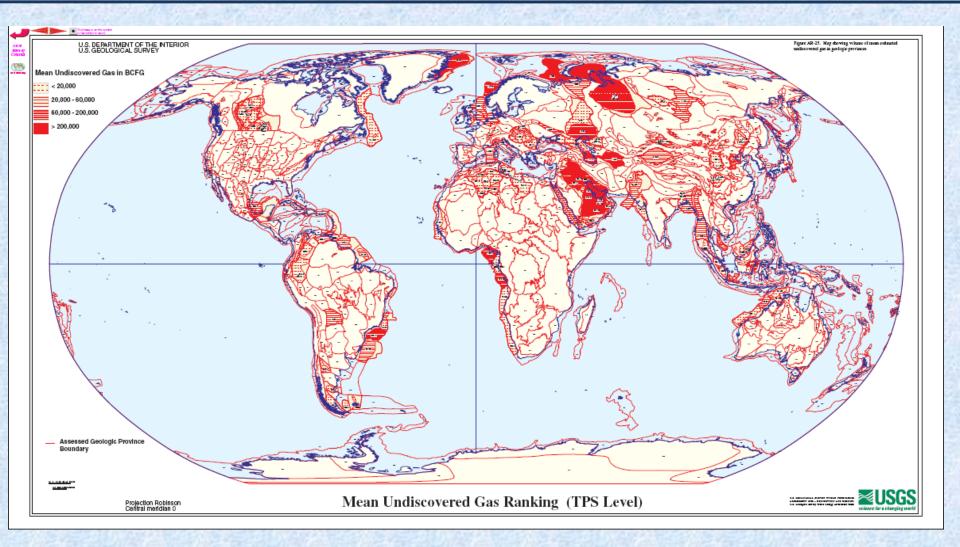


What are the resources available and where are they?

8th Petro India 2009, New Delhi Source: USGS Assessment of Undiscovered resources, 2000



Undiscovered Gas



What are the resources available and where are they?

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Source: USGS Assessment of Undiscovered resources, 2000



 Conventional Oil and gas assets –farm-ins, bid rounds, company acquisitions

 Unconventional resources like Extra Heavy Oil, Tar/bitumen sands, shale gas

 Frontier unexplored areas like Arctic, West Siberia, ultra deepwater areas etc.

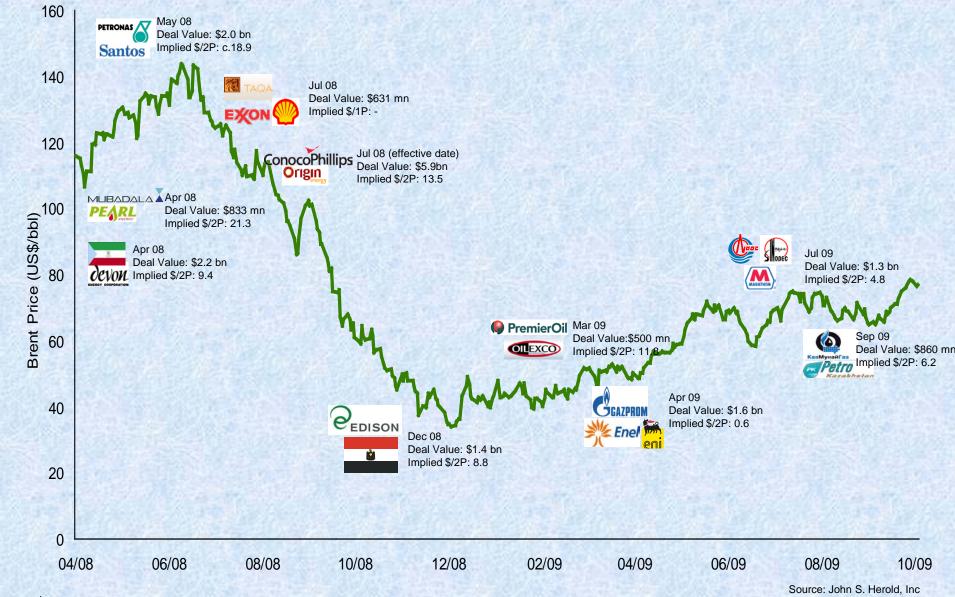


Overseas Opportunities





Asset Deals (>US\$500 mn)

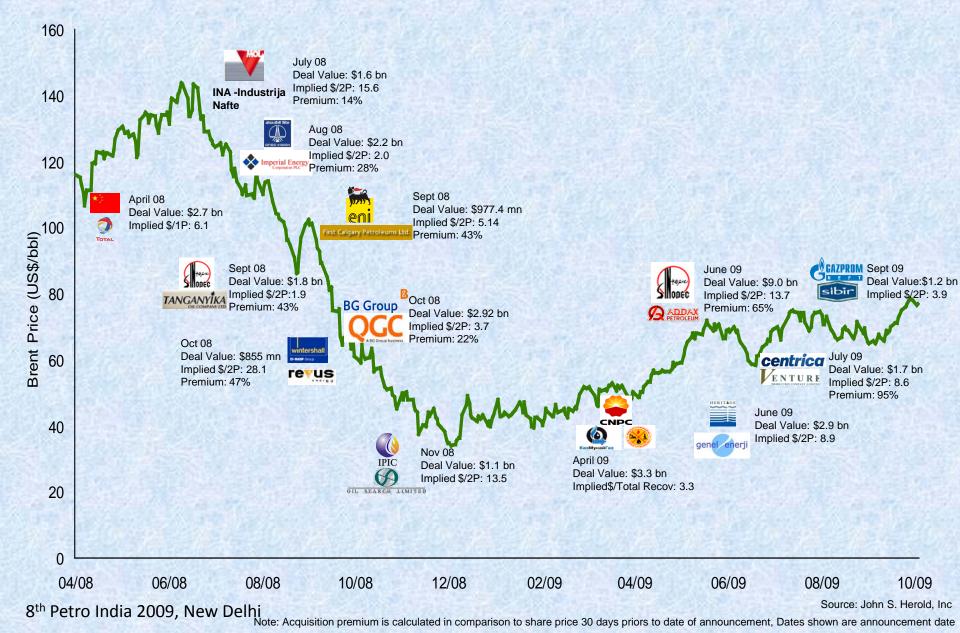


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Note: Dates shown are announcement date unless mentioned



Corporate Deals (>US\$500 mn)





- Crude oil Price volatility
- Growing Resource Nationalism
- Aggressive Competition (high cost of acquisition)
- Technology intensive resource
- 'Cash is king'- Hard cash to buy good assets
- Unstable fiscal regime
- Political risk



- Hydrocarbon dominance to continue in the energy basket
- Demand –supply gap in India can be met through a two-pronged strategy:
 - Exploration in Indian Basins
 - Aggressive acquisition of assets overseas
- Increasing competition for stake in resources and high cost of acquisition necessitates Indian companies to be aggressive.
- Indian Companies need to join hands to overcome Competition.





THANK YOU