



**NALCOSA**

Energy Consulting Services

# The Role of National Oil Companies in International Energy Markets

by  
**Nordine Ait-Laoussine**

The Baker Institute Energy Forum  
Workshop on « The Role of NOCs »

Houston/Texas  
May 5, 2005



N05-24

# Presentation Outline

- **Introduction**
- **Genesis and mandate of a typical NOC**
- **Impediments to NOC transformation**
- **The NOC/IOC relationship**
- **The Algerian case**
- **Conclusions**

## The classic NOC dilemma: Reconciling political and business interests

- **NOCs were created with a dual mandate**
  - Take over and operate IOCs nationalized assets
  - Implement the government energy policies
- **The overall mission was to increase State revenues and act as the engine of the country's economic development**
- **By and large, OPEC NOCs were partly successful in their original dual mission**
  - Aggregate share of world output increased from 10 to 40%
  - Ten-fold jump in combined oil revenues
- **But little progress was made in economic development and diversification in spite of artificially low petroleum product prices**

## The public service mandate progressively overwhelmed the commercial function

- **Under the pressure of the State, NOCs paid less attention to the corporate interest**
- **Most NOCs ended up with a broader mandate which included political and social responsibilities**
  - Role of welfare provider within the State
  - Increased contribution to meet social targets (job creation)
  - Non-commercial and non-revenue creating functions
  - Non-energy related services (hospitals, schools, roads, etc.)
  - Involvement in political activities
- **NOCs became super government bureaucratic agencies, managing the State hydrocarbon monopoly and often performing a regulatory role**

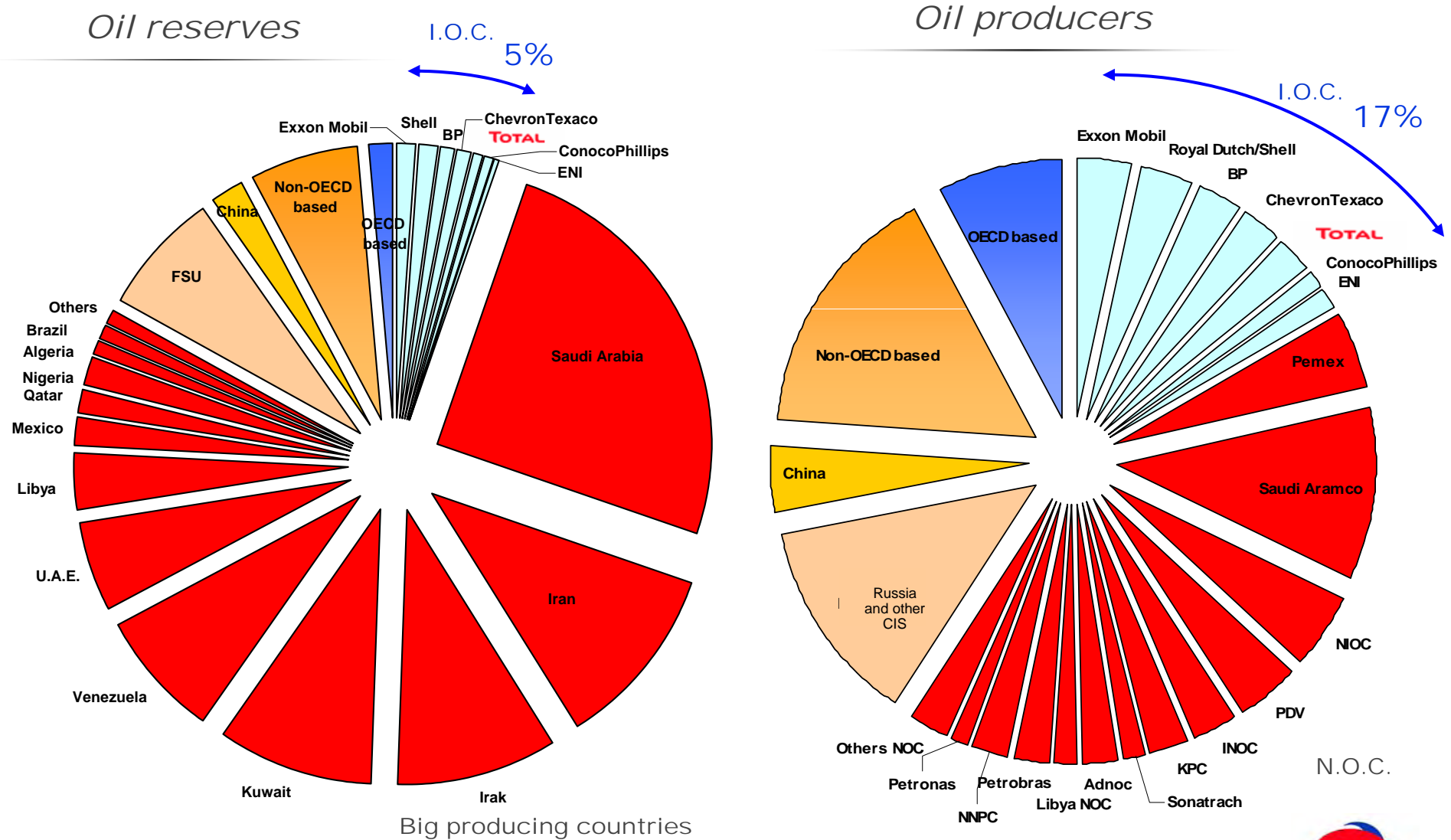
# The need to reform NOCs is widely acknowledged but progress is slow

- **The objective is to improve performance, be competitive and create value for shareholders**
  - Cut cost and streamline
  - Focus on core business
  - Achieve financial sufficiency
  - Generate profits and pay dividends
- **This requires, at the very least, a clear separation of the task of defending the national interest from the task of defending the corporate interest**
  - The State should recover and exercise its property/regulatory rights
  - The NOC should focus on its corporate interest
- **But this separation may not be possible as long as the State remains the exclusive shareholder**

# The crucial question is whether the State is prepared to deliver its side of the deal

- **Can the NOC be freed from the shackles of political pressure, outside restraints and unwanted interference?**
- **Will the government deal with its NOC as a normal shareholder would? Will NOC's managers be appointed on merit rather than on political affinities?**
- **Will the State allow NOC to function as a commercial entity? Will it have a responsible dividend policy enabling NOC to meet its financial needs for expansion, maintenance and other investment requirements?**
- **If the answer is yes, there is no doubt that NOCs can adapt to the new environment. It is not sure, however, that the political leadership is ready for a change.**
- **Short of privatization, only good governance will free the NOC from excessive State intervention.**

# Distribution of world oil reserves and production



Sources : 2002 BP Statistical Review, PIW  
 Oil production 2002 = 73.9 Mbpd





According to the IEA , the demand for OPEC oil is projected to increase to 50 mmbd in 2020 and 65 mmbd in 2030

(mmbd)	2002	2010	2020	2030	Average 2002-2030 Growth p.a.
<b>World Oil Demand:</b>					
OECD	45.4	49.7	54.4	57.1	0.8
Non-OECD	28.6	37.5	48.8	60.4	2.7
Other	3.0	3.2	3.5	3.8	0.9
<b>Total</b>	<b>77.0</b>	<b>90.4</b>	<b>106.7</b>	<b>121.3</b>	<b>1.6</b>
<b>World Oil Supply:</b>					
Non-OPEC	45.3	51.3	47.9	43.4	(0.2)
<b>OPEC</b>	<b>28.2</b>	<b>33.3</b>	<b>49.8</b>	<b>64.8</b>	<b>3.0</b>
Other	3.5	5.8	9.0	13.1	4.8
<b>Total</b>	<b>77.0</b>	<b>90.4</b>	<b>106.7</b>	<b>121.3</b>	<b>1.6</b>

Source: IEA - World Energy Outlook 2004

For the period up to 2030, the IEA estimates<sup>(1)</sup> cumulative investment requirements at \$ 6 trillion for the oil and gas sector

<b>(in \$ billions)</b>	<b>Oil</b>	<b>Gas</b>	<b>Total</b>	<b>Average Annual Requirements<sup>(2)</sup></b>
<b>Global Requirements</b>	<b>2 839</b>	<b>3 145</b>	<b>5 984</b>	<b>199.5</b>
<b>Exploration/Production</b>	<b>2 222</b>	<b>1 731</b>	<b>3 953</b>	<b>131.7</b>
<b>OECD</b>	<b>684</b>	<b>826</b>	<b>1 510</b>	<b>50.3</b>
<b>Non-OECD</b>	<b>1 538</b>	<b>905</b>	<b>2 443</b>	<b>81.4</b>
of which:				
FSU	421	272	693	23.1
Middle East	408	140	548	18.3
Africa	311	153	464	15.5
Latin America	241	141	382	12.7
Asia	156	199	355	11.8

(1) Source: IEA - World Energy Investment Outlook - 2003

(2) For the 2001-2003 period

# NOCs and IOCs perceive a mutuality of interest in joining their efforts to meet long-term demand growth

Revenues and technological needs compel OPEC countries to consider new policies vs. private foreign capital

- NOCs can offer what IOCs need

- Access to a proven resource base
- Opportunities in low cost / low risk ventures
- Surest way to achieve reserve replacement objectives
- Large projects to support production growth
- Potentially attractive returns

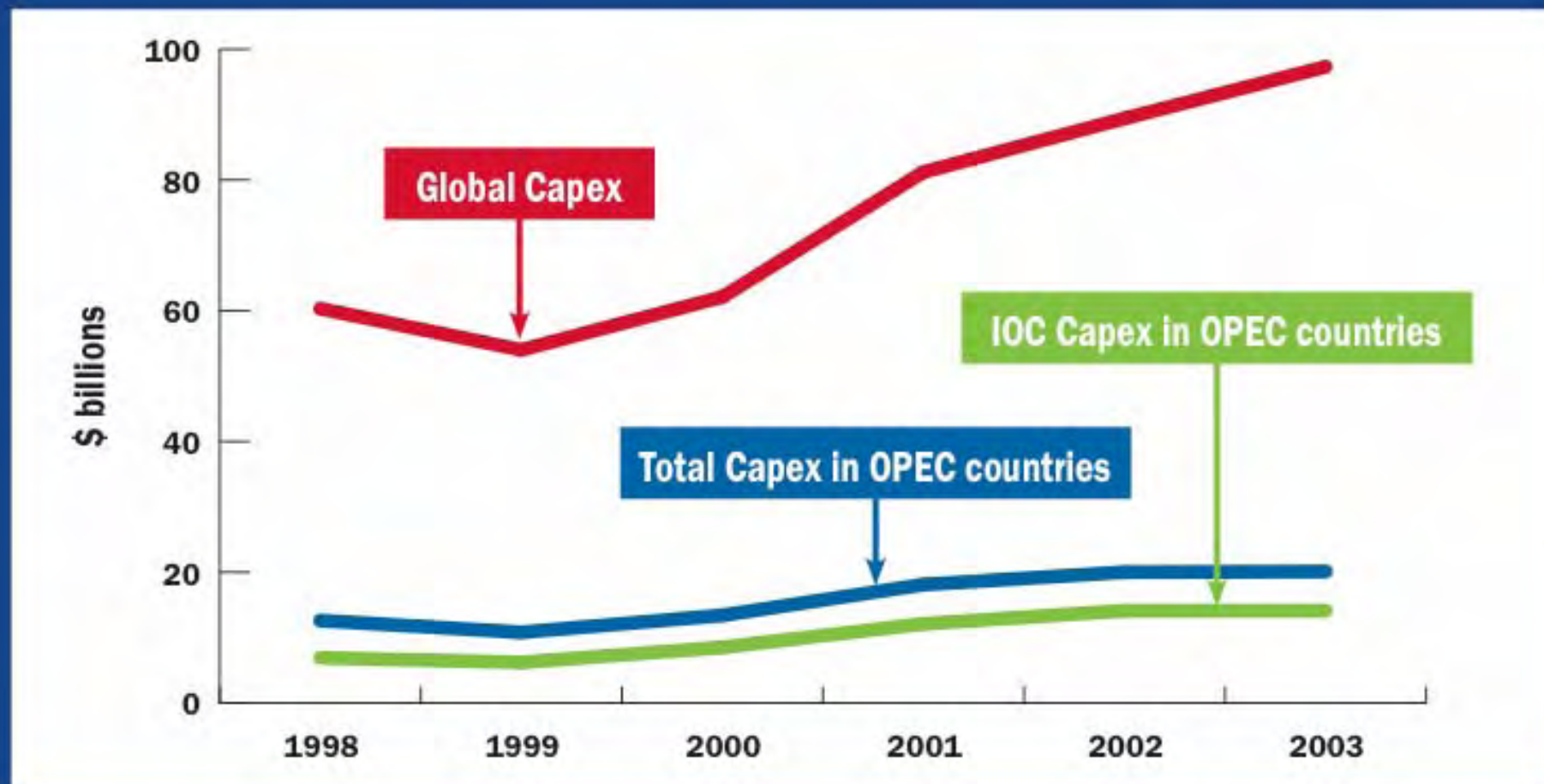
- IOCs can offer what NOCs need

- Additional risk capital
- Leading edge technology
- Capacity to manage large and complex projects
- Ability to cut cost and operate efficiently
- Access to diversified markets

Shareholder pressure compel foreign oil companies to improve performance with low cost/low risk OPEC ventures

But, in spite of this apparent alignment of interests, limited progress has been achieved so far

## International oil company capital expenditures in OPEC countries are only one-fifth of oil industry upstream investment worldwide



Source: Wood McKenzie data upstream and some midstream investment



The impediments that stand in the way of increased IOCs' involvement in the OPEC upstream are complex

- **National sovereignty considerations/resource nationalism**
- **Unilateral sanctions**
- **Perceived political risk**
- **Perception of an imbalanced relationship between NOCs and IOCs**
- **Terms and economic conditions of access**
  - Do IOCs seek unreasonable rates of return?
  - Why do IOCs use ultra-conservative price scenarios?
  - Are IOCs losing out to new/more aggressive competitors?
- **Can IOCs operate successfully without stronger political support from their home governments?**

# Critical needs vs. political/cultural barriers: The future of NOC/IOC cooperation

- **The trend towards increased IOCs' involvement in the OPEC upstream is inevitable**
  - Global forces are driving the move towards an open market
  - Individual country needs are reinforcing the global trend
- **But the pace will continue to vary from country to country**
  - Fundamental desire to retain control will constrain changes
  - In some countries, the driving force is immediate revenue needs
- **High prices can reinforce resource nationalism and « go it alone » attitudes**
- **Venezuela has demonstrated (together with Russia and Kazakhstan) that it is not a one-way street and Kuwait's hesitations remind us that political and cultural barriers can slow down the process**
- **At the other side of the spectrum, Algeria has recently adopted a very liberal regime**

# The new Algerian hydrocarbon law restores the Ministry's prerogatives in exercising the State's rights

- **The State retains ownership of the source base**
- **The Ministry is entrusted with the responsibility of ensuring optimum development of national resources**
- **The Ministry contributes to the definition of the Government's hydrocarbon policy and looks after the implementation of the new legislation**
- **The State's property and regulatory rights are exercised by two "independent" agencies under the supervision and control of the Ministry**
- **The Ministry has the final word on all fundamentals decisions**
  - E&P contracts and pipeline concession awards
  - Reference prices for taxation purposes
  - Production levels in line with OPEC quota decisions
  - Exceptions to the bidding process



## **The rationale of the new law is to extend to the hydrocarbon sector the Government's ongoing reforms towards a free market economy**

- **Eliminate the constraints faced by private capital investment in the sector**
- **Reduce direct state management of resource development**
- **Enhanced role for foreign investment by opening the entire industry**
- **End of Sonatrach's monopoly upstream**
- **Privatization of refining and distribution activities**
- **Local market price subsidy to be borne by the State**
- **Sonatrach will compete with private companies on essentially the same terms**



# Levelizing the playing field between the NOC and private companies

- **The new licensing terms are relatively generous**
- **The PSA contract is replaced by a new fiscal system based on**
  - A variable royalty rate
  - A progressive petroleum revenue tax
  - A corporate tax on profit at the prevailing rate
- **The new regime guarantees**
  - Access to transmission infrastructure at regulated tariffs
  - Free export of foreign equity gas under certain conditions
- **E&P contracts and pipeline concession are awarded through a transparent bidding process**
- **Sonatrach has the option to take a 20 to 30% interest in new discoveries**

## **The new regime entails radical and far-reaching consequences on Sonatrach**

- **End of its monopoly status in the national hydrocarbon industry and the attached economic and financial privileges (particularly in the very lucrative transportation sector)**
- **Transfer all of its mining rights to the Ministry which will reassign to the national company, through Alnaft, the rights Sonatrach wants to retain under the new legislation**
- **Operate its transmission infrastructure under the proposed concession regime with TPA and regulated tariffs**
- **Align, in due time, the economic and financial terms of its existing contracts to the new fiscal system**
- **Enter into a parallel contract with Alnaft to conform to the law Sonatrach's rights and obligations under existing PSA's or Joint ventures without infringing foreign partners' rights**

## The new regime entails radical and far-reaching consequences on Sonatrach (Cont.)

- **Sonatrach will however remain a preponderant actor in the Algerian hydrocarbon scene**
  - Extensive mining rights
  - Access to a very large share of the resource base
  - Option to participate in any new discovery on attractive terms
  - Ownership of a vast transmission and distribution network and of several refineries and LNG facilities
- **To face the growing competition, Sonatrach is expected**
  - To cut cost, streamline and improve performance
  - To reduce its social role of welfare provider for the State
  - To focus on core business and value creation
- **It must raise its own financial needs (circa US \$ 5 billion/year)**
  - Without the State's guarantee
  - With no contribution from the national budget



## The new regime entails radical and far-reaching consequences on Sonatrach (Cont.)

- **Sonatrach's financial constraints will be somewhat mitigated by:**
  - A lower tax burden for the major part of its production
  - The transfer to the State Treasury of any subsidy on domestic hydrocarbon prices
  - Cost saving resulting from reduced social/welfare mission
  - Divesting from non-revenue creating activities
  - Increased partnership with private oil companies
- **Whether Sonatrach will rise to the challenge of competition and commercial orientation will depend, to a large extent, on the attitude of the State during the transition period**
  - Will Sonatrach be protected from political pressures and unwanted interference?
  - Will the State ensure the financial equilibrium of the national company?
  - Will the State have a responsible dividend policy?
- **If the State cannot deliver its side of the deal (i.e. good governance), then Sonatrach may be forced to sell some of its assets and substantially reduce staff at a time when the country suffers from a very high unemployment rate**

# Conclusions

- **The oil market is in the midst of a major and possibly lasting structural change**
  - **This change has highlighted the crucial role and responsibility of the producer NOCs in world markets**
  - **NOCs are at a turning point**
    - Either they remain bedrocks of sovereignty, privileged national champions, resource monopolists and tax collectors, subject to political influence
    - Or they streamline, get rid of their privileged position, concentrate on their core business, both at home and abroad, and diversify their activities to become global companies
  - **NOCs' transformation will clearly depend on their governments' abilities to embrace economic and political reforms**
  - **IOCs can help NOCs' transformation process through new business models**
- « It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change » (Darwin)***