The Rise of Asia’s National Oil Companies: Competitive Issues and Geopolitical Implications

Panel 1: Prospects and Developments For Asia’s NOCs

May 3, 2007
## Top 10 Oil Consumers and Importers

<table>
<thead>
<tr>
<th>CONSUMERS</th>
<th>2005</th>
<th>IMPORTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNTRY</td>
<td>MMB/D</td>
<td>COUNTRY</td>
</tr>
<tr>
<td>United States</td>
<td>20.7</td>
<td>United States</td>
</tr>
<tr>
<td>China</td>
<td>6.9</td>
<td>Japan</td>
</tr>
<tr>
<td>Japan</td>
<td>5.4</td>
<td>China</td>
</tr>
<tr>
<td>Russia</td>
<td>2.8</td>
<td>Germany</td>
</tr>
<tr>
<td>Germany</td>
<td>2.6</td>
<td>South Korea</td>
</tr>
<tr>
<td>India</td>
<td>2.6</td>
<td>France</td>
</tr>
<tr>
<td>Canada</td>
<td>2.3</td>
<td>India</td>
</tr>
<tr>
<td>Brazil</td>
<td>2.2</td>
<td>Italy</td>
</tr>
<tr>
<td>South Korea</td>
<td>2.2</td>
<td>Spain</td>
</tr>
<tr>
<td>Mexico</td>
<td>2.1</td>
<td>Taiwan</td>
</tr>
</tbody>
</table>
How do China and India compare?

<table>
<thead>
<tr>
<th>UPSTREAM FACTORS</th>
<th>CHINA</th>
<th>INDIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there a separate Ministry of Energy?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Is there an independent regulatory body?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of bid rounds to date</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Annual oil production in mmb/d</td>
<td>3.6</td>
<td>0.8</td>
</tr>
<tr>
<td>Increasing or decreasing oil imports?</td>
<td>35%+</td>
<td>70%+</td>
</tr>
<tr>
<td>Who is dominant in the sector?</td>
<td>NOCs</td>
<td>NOCs</td>
</tr>
<tr>
<td>Are the major IOCs present?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>How many oil companies invest in the sector?</td>
<td>44</td>
<td>21</td>
</tr>
<tr>
<td>Ratio of basins to producing basins</td>
<td>424/150</td>
<td>26/6</td>
</tr>
</tbody>
</table>
Top 25 Countries with NOCs in 2005
Top 25 Countries with NOCs in 2005

- Mexico
- Russia
- Iran
- Kuwait
- Venezuela
- Saudi Arabia

Restricted Access
Top 25 Countries with NOCs in 2005

- Mexico
- Russia
- Algeria
- Iran
- Qatar
- Kuwait
- Venezuela
- UAE
- Saudi Arabia

Restricted Access

Gas to Market

BOE RESERVES

BOE PRODUCTION
Top 25 Countries with NOCs in 2005

- Russia
- Saudi Arabia
- Mexico
- Kazakhstan
- Azerbaijan
- Algeria
- Qatar
- Kuwait
- Venezuela
- UAE
- Iraq
- Saudi Arabia
- Turkmenistan
- Uzbekistan
- Azerbaijan
- Kazakhstan

- Restricted Access
- Gas to Market
- Under Development

BOE RESERVES
BOE PRODUCTION

Restricted Access
Gas to Market
Under Development
Top 25 Countries with NOCs in 2005
Top 25 Countries with NOCs in 2005
Where are the NOCs going?

1970 Oil Production:
- 49% US Oils
- 45% Other
- 6% NOCs

2005 Oil Production:
- 11% US Oils
- 21% Other Oils
- 68% NOCs
Today’s participants

China
Trevor Houser
Jing Huang

India
Juli MacDonald
Teresita Schaffer

Japan & Korea
Peter C. Evans
Hirohide Hirai