

INDIA DAY at NOG

Introductory remarks

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Some Characteristics

- GDP /capita (PPP) 2900 USD, ranking 103 in the world
- Illiteracy: 40% effectively according to World Bank, ranking 25 from the bottom
- BUT; Nuclear, missile, IT (flight booking)
- BUT; GDP growth -97 to -07 was 6,9% as average and 7,4% in -08 (CIA)

ENERGY MIX (US EIA)

- Coal 53%
- Oil 31%
- Natural Gas 8%
- Hydroelectric power 6 %
- Nuclear 1 %
- Renewables 1%

India's Energy Needs and Supply

- **Electricity problems because production and distribution systems are old and disorganised**
- **53 % of energy needs covered by burning coal**
- **Severe environmental problems, air pollution**
 - very large reserves of coal
 - but dirty
 - political problems make it difficult to use

India in world oil overview 2007

Thousand barrels/day (US EIA)

•	Consumption	Import/	"Supply"
• USA	20680	10031	8456
• Europe	16135	12755	5421
• Mid East	6393	670	24586
• Africa	3129	895	10791
• Asia	25132	16251	8475
• India	2845	2370	881
• World	82456	44461	85408

India in world natural gas overview

Billion Cubic Feet (US EIA 2008)

	Consumption /	Import/	Production
USA	23047	4608	19089
Europe	20106	15304	10716
Mid East	10674	568	12592
Africa	3079	148	6832
Asia	16826	6334	13941
India	1460	352	1108
World	108457	34436	106413

Energy in Potential Local Conflicts

- **Territorial issues with Myanmar and Bangladesh**
- **India-Pakistan conflict over Jammu and Kashmir**
 - **Basically ideological & religious**
 - **But very much also about water and hydro power**

Effort at Energy as CBM in Indian Policy

- **Gas from Iran by sea or in pipeline via Pakistan (opposed by MOFA)?**
- **Price haggling with Iran**
- **U.S. opposition**
 - **sanctions legislation**

Energy and Grand Strategy

- **U.S. wish to stop India from getting close to the Shanghai Cooperation Organisation (SCO)**
- **Energy is an important element in SCO**
- **USA offers civilian nuclear technology and other forms of cooperation about energy**

Energy and Grand Strategy

- **U.S. offer about nuclear cooperation is but one aspect of a greater plan for India's role**
 - **Central Asia corridor(Afghanistan Pakistan)**
 - **Great power status for India as opposed to China in Asia**
 - **Military cooperation, weapons etc.**
 - **Sea Lanes of Communication (SLOCs)**

Grand Strategy and Energy in Asia

- **USA willing to give India Nuclear technology and Great Power Status**
- **India invites Gulf countries to protect SLOCs in the Indian Ocean.**
- **US ABM defence cooperation with Japan, ROK and Australia and (India?)**
- **=Containment of China ?**