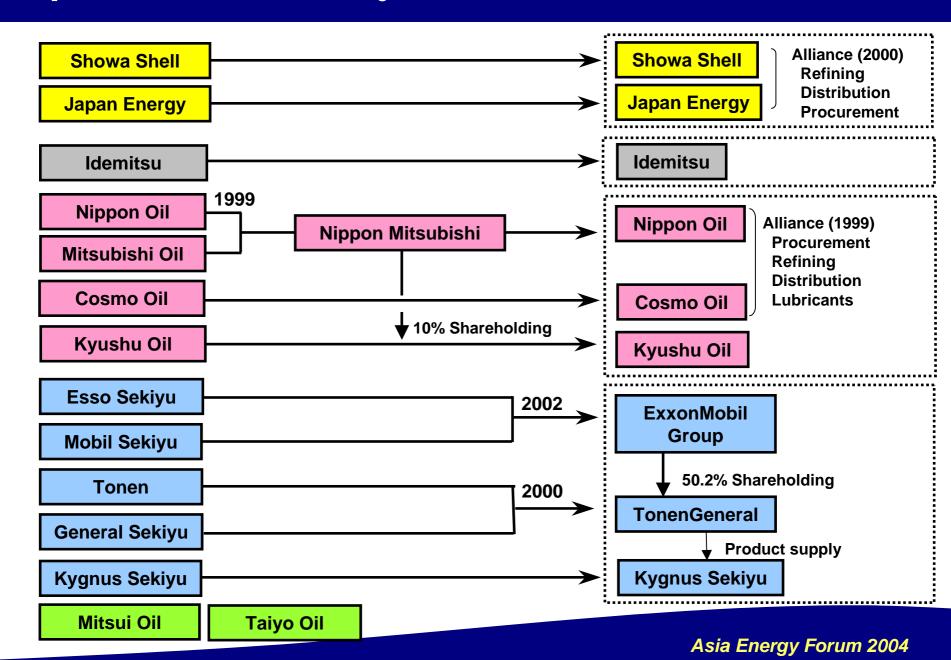
# Asia Energy Forum 2004

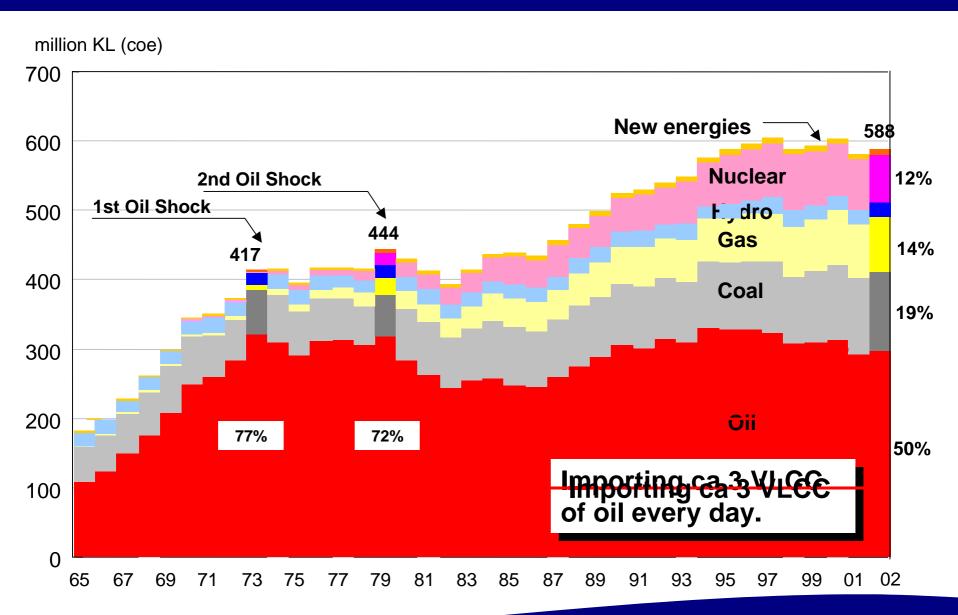
# Asia's Oil Supply and Demand and Energy Security

Haruyuki Niimi Chairman Showa Shell Sekiyu KK

#### Japanese Oil Industry

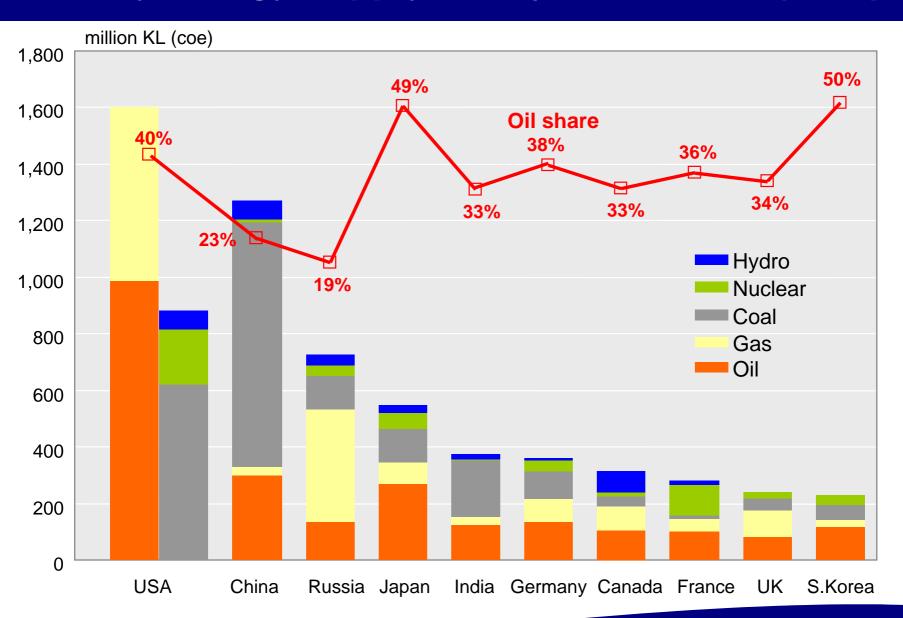


#### Japan's Primary Energy Supply



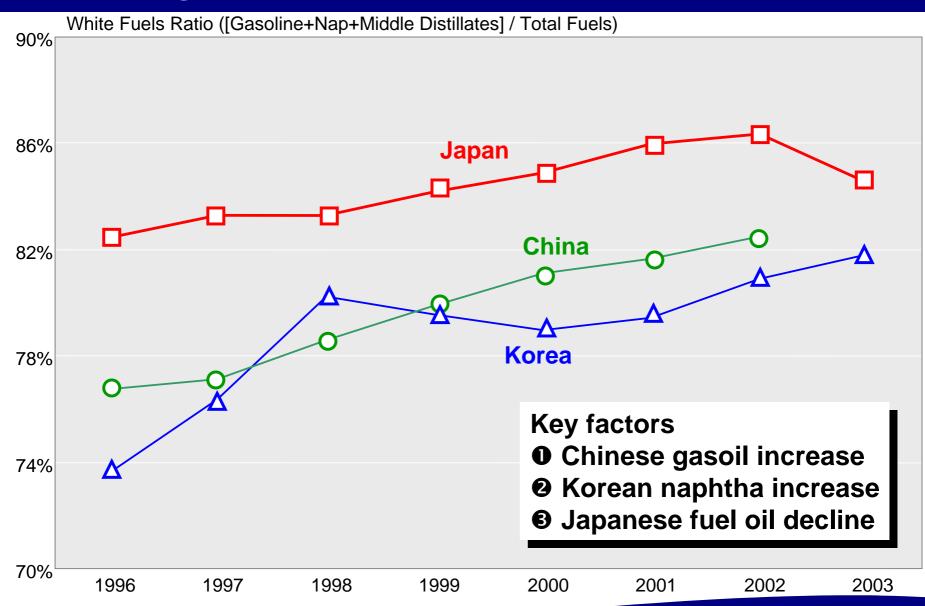
Source: METI

## Primary Energy Supply in Major Countries (2003)



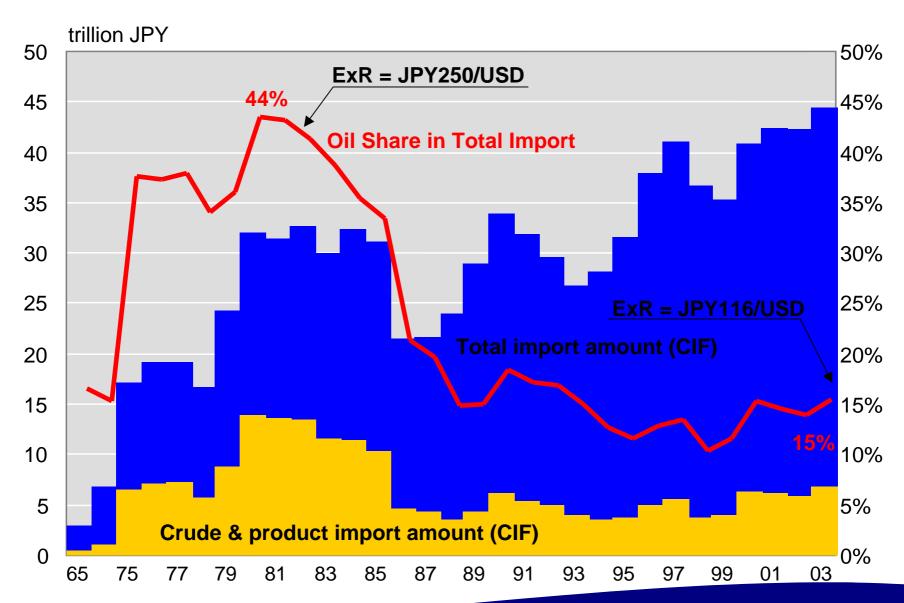
Source: BP

#### Whitening Product Mix in North East Asia



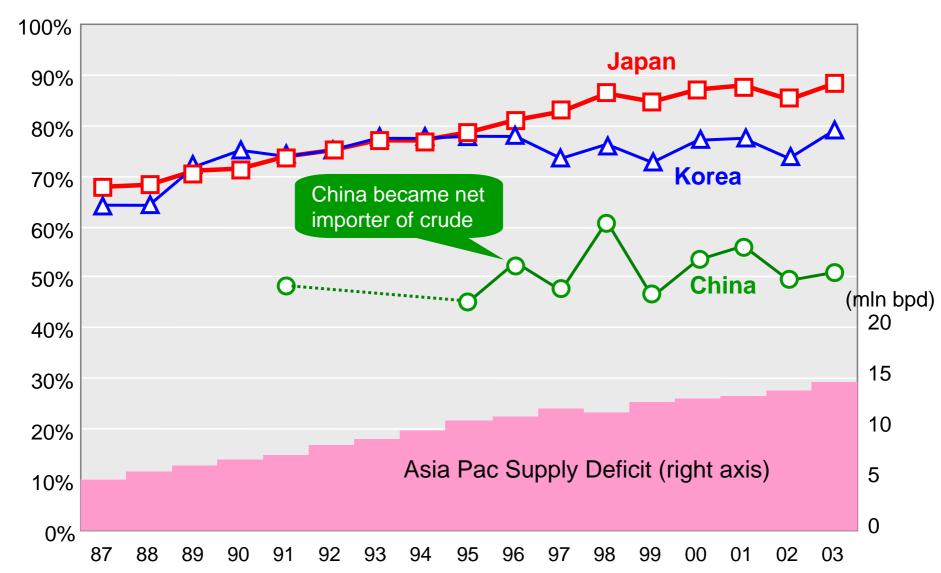
Source: IEA, Korea Petroleum Development Corp

#### Decreased Oil Share in Japanese Import



Source: PAJ

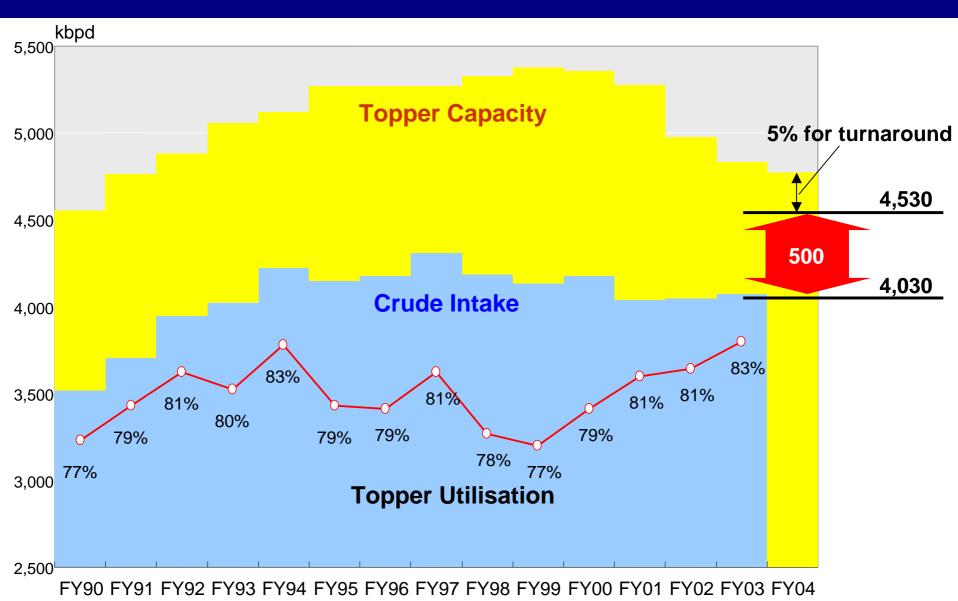
#### Increasing Oil Dependence on Middle East



Source: BP, PAJ, Korean Petroleum Association China OGP etc

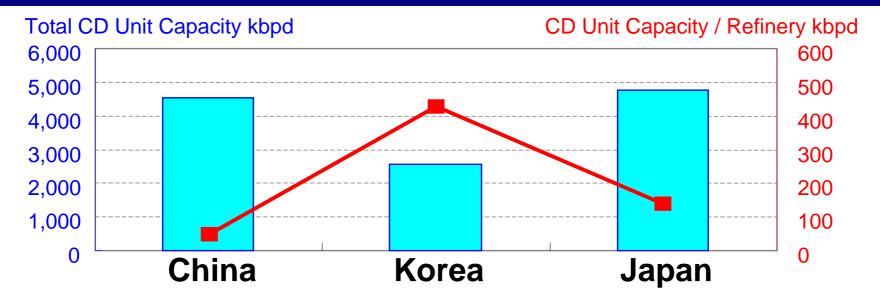
Asia Energy Forum 2004

## Excess Refining Capacity in Japan

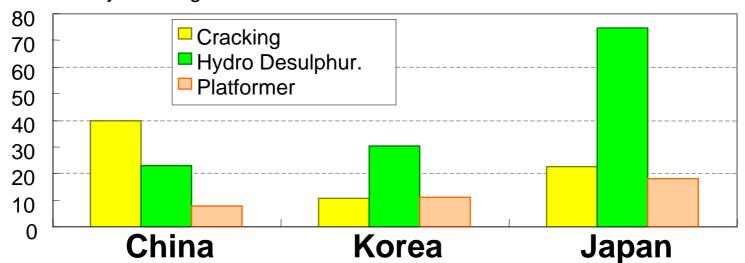


Source: PAJ

#### Differences in Refining Configulation in NE Asia



Proportion to 2ndary Units against CD %

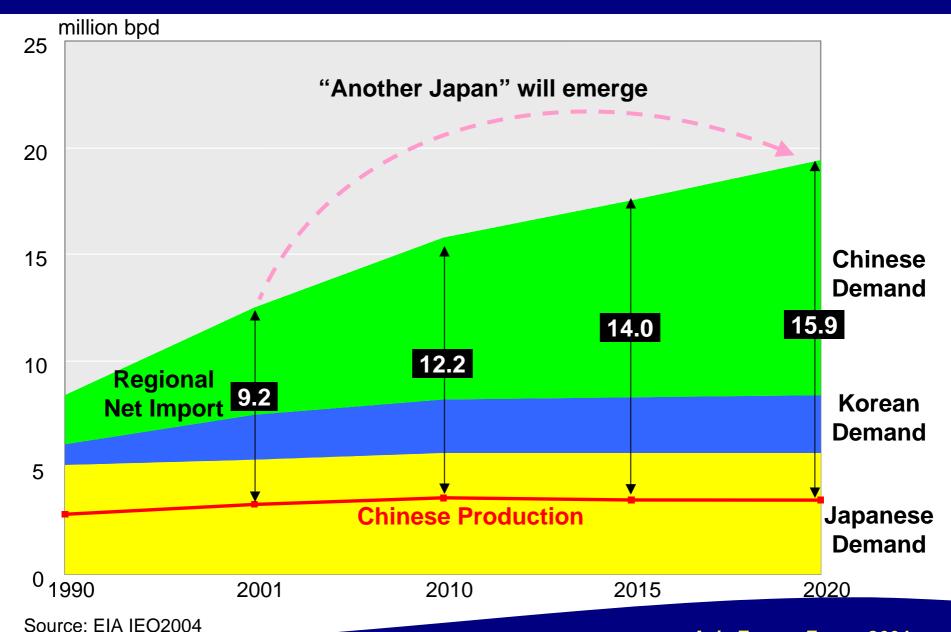


Source: IEEJ

# Review on Japanese Oil Policy

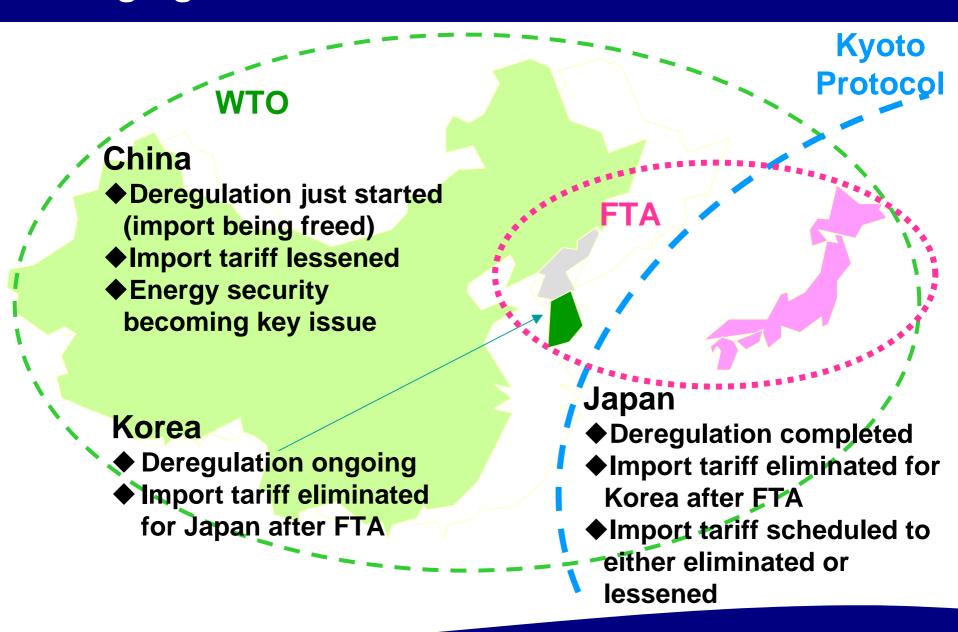
1973 77%	Current 50%
100	66
1973	Current
ca 30 d	180 d
1973	Current
78%	89%
1998	Current
15%	10%
	100 1973 ca 30 d 1973 78%

#### Oil Demand Outlook in North East Asia

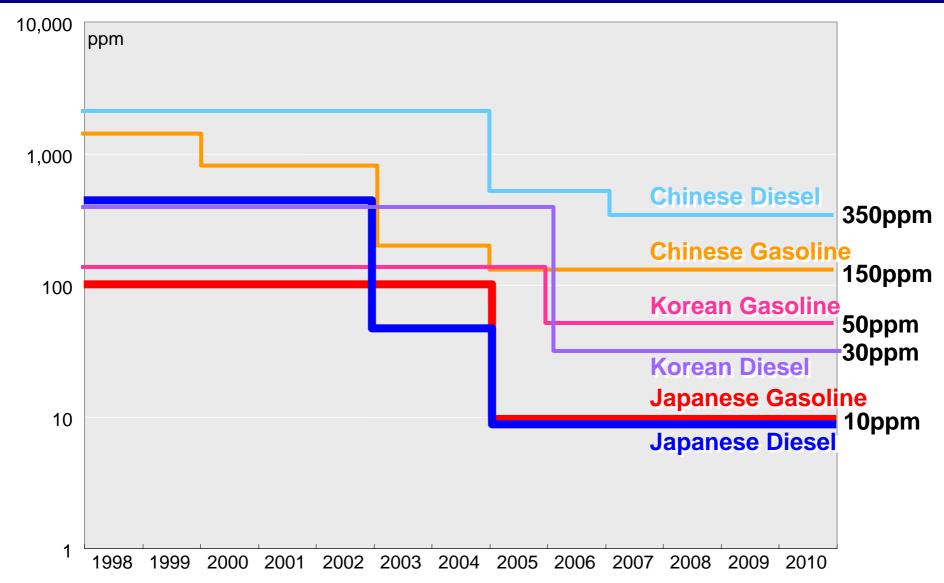


Asia Energy Forum 2004

#### Changing Market Environment in NE Asia



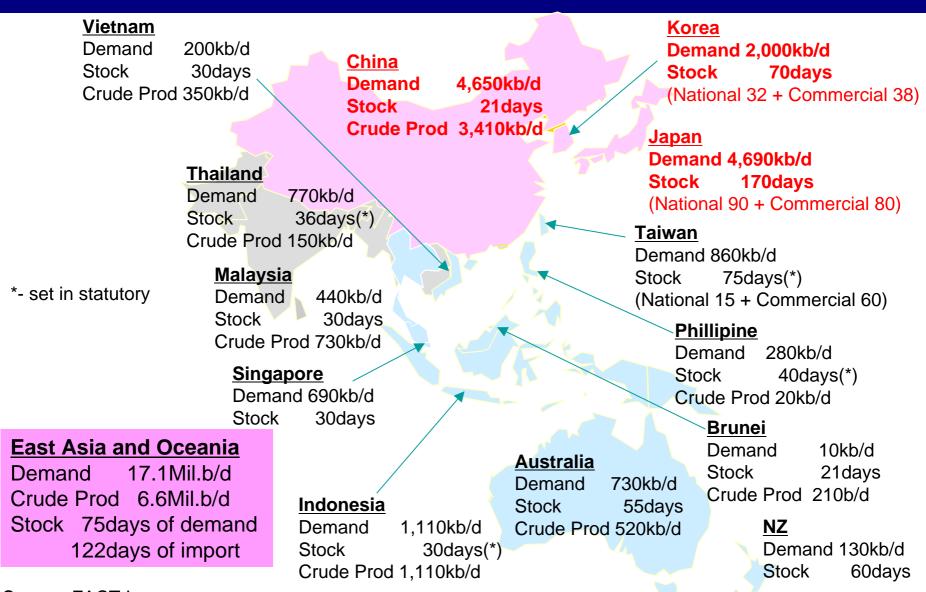
#### **Product Specs Affect Oil Trade Flow?**



Remark: Chinese specs above are for Beijing & Shanghai.

Source: JPEC

#### Oil Stockpiling in EA and Pacific (excl. LPG)



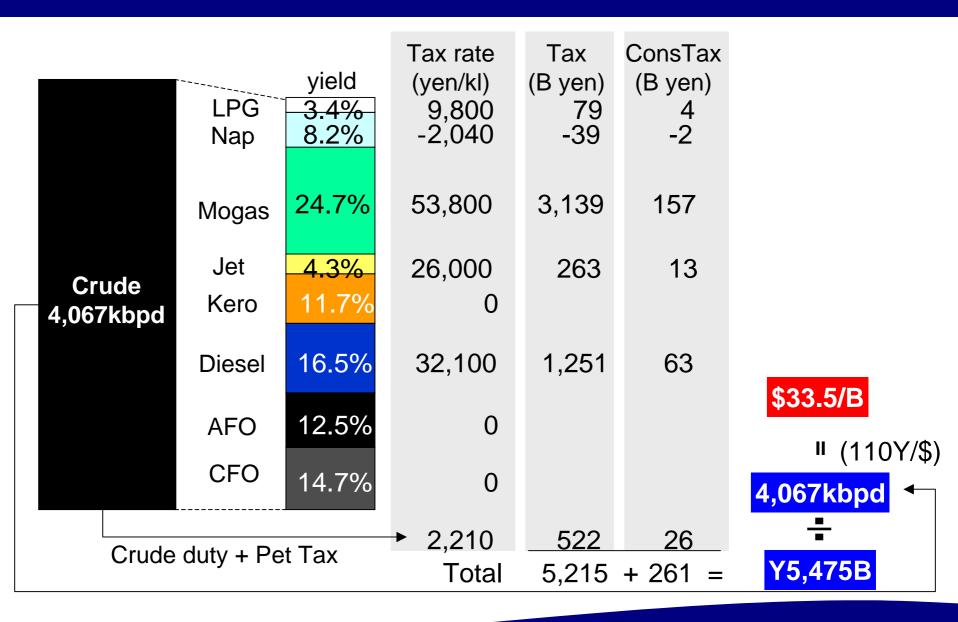
Source: FACT Inc.

Asia Pacific Energy Research Center

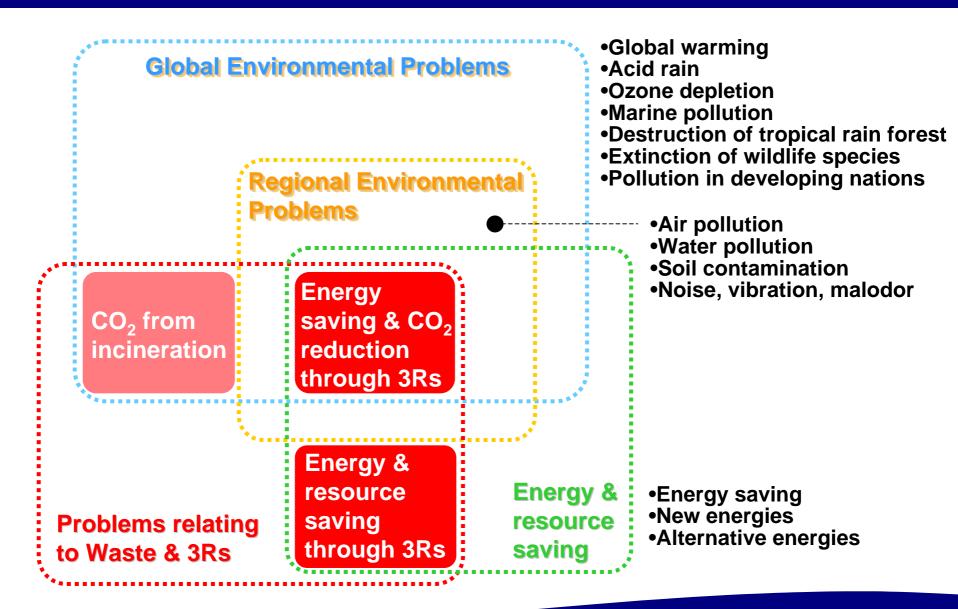
#### Sea Lane is Regional Security Issue



#### More than \$30/bbl of Tax Imposed on Crude



#### Outline of Environmental Problems & 3Rs

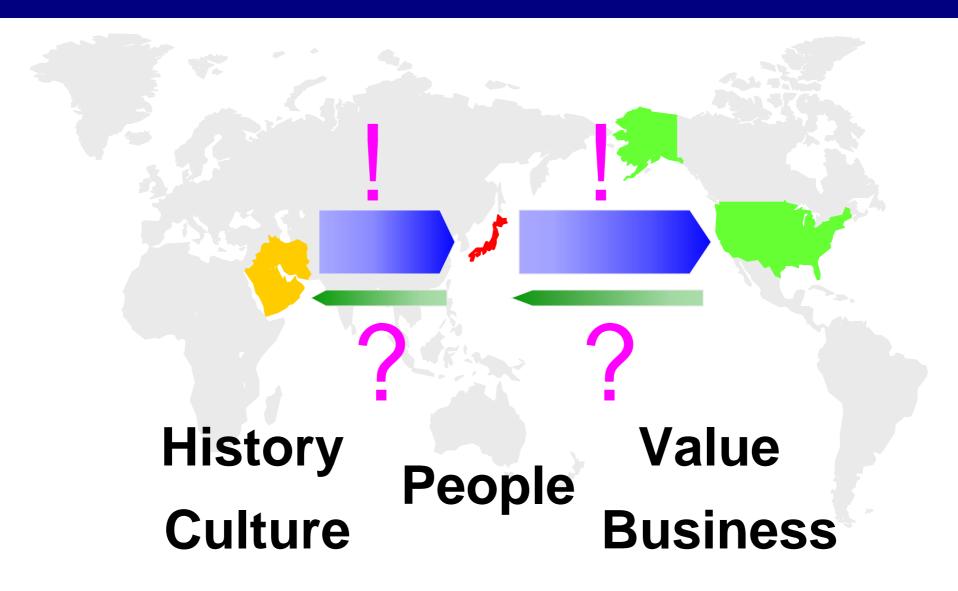


Source: METI

#### Japan's Contribution to Regional Energy Security

- ◆ Fully utilising its most modernised refining assets in the region
- **♦** Sharing best practice of
  - √its most advanced stockpiling system
  - √its world leading energy conservation technologies
  - √its effort for creation of a recycling-oriented society ("3Rs" promotion)

#### Mutual Understanding as Platform for Relation



# **Backup**

#### Strategic Direction of Japanese Energy Policy

#### **In Reality**

- **♦ Concerns more on Nuclear Safety**
- **♦Changing demand mix** 
  - industrial demand declining but retail demand increasing
- ♦ Remaining unchanging high dependency on Middle East for economic reason
- - More Nuclear
  - **♦ Less Oil**
  - Lower Dependence on Middle East
  - **♦** Efficient Energy Supply

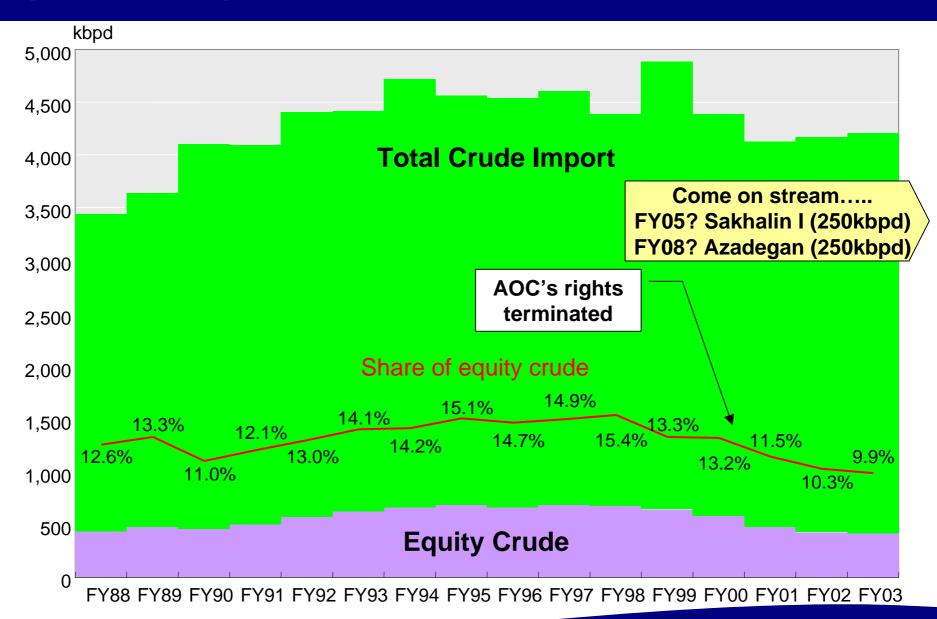
#### "3Es Policy"

**Economic Efficiency**Market Liberalisation

Environment
Energy Conservation
Sulfur-free Fuels

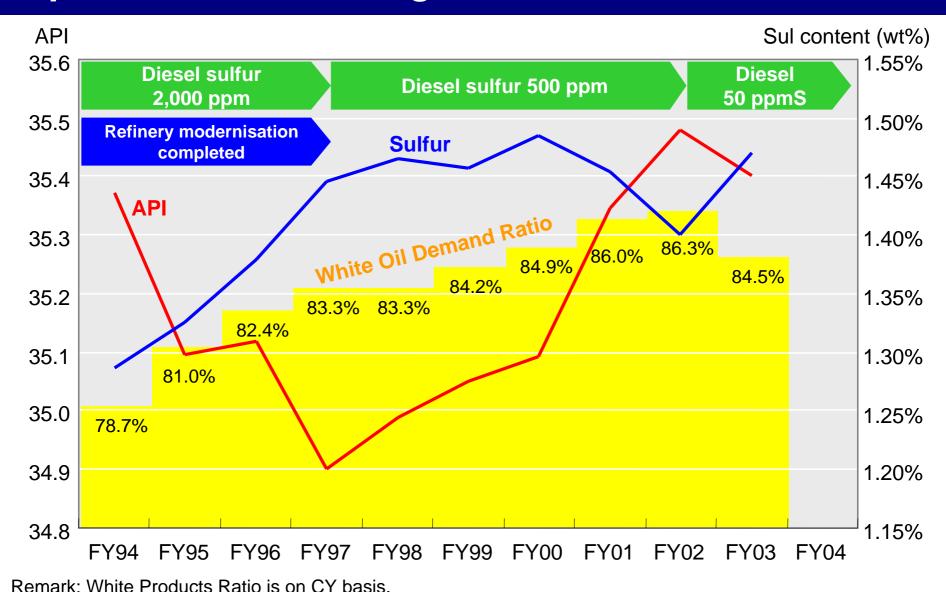
Energy Security
Source Diversification
Adequate Stockpiling
Relation with Oil Producers

#### Upstream, Uphill Battle?!



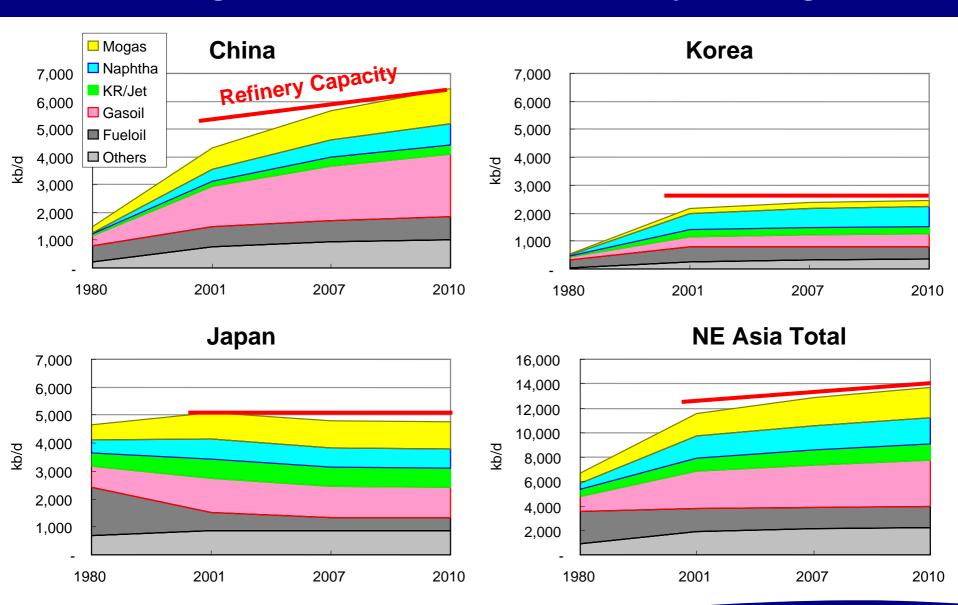
Source: METI

#### Japan's Crude Slate Lighter & Sourer



Source: PAJ, IEA

## Unmatching Product Mix and Refinery Configulation



Source: IEEJ