# Outlook of Refining Capacities in China



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# **Agenda**

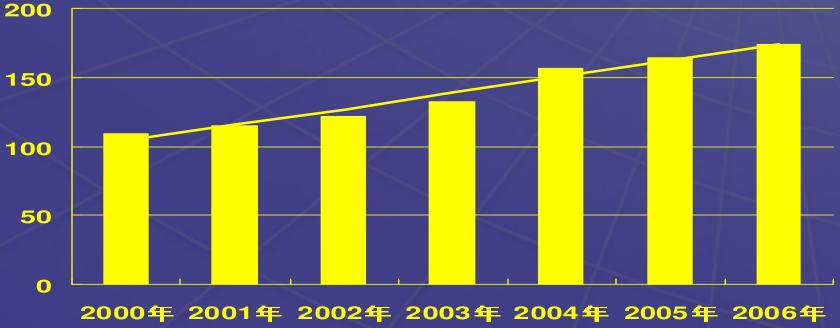
- Review and update
- Challenges and Opportunities
- Outlook for 2010



## **Review – Oil products**

### Oil products consumption ...



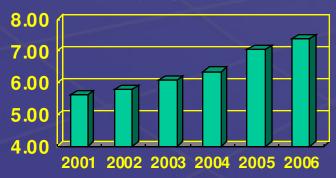


Annual growth rate 8.2% (relevant coefficient with GDP growth rate was 0.8)

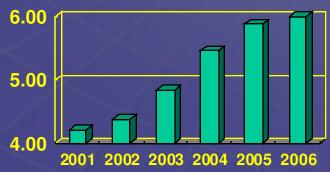


## **Review – Oil products**

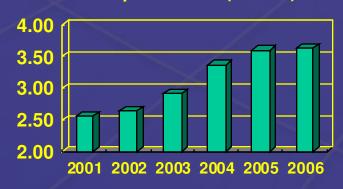




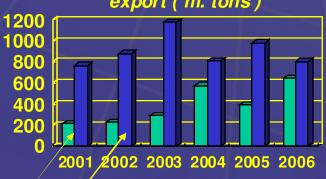
#### Crude processing ( m b/d )



#### Oil production ( m b/d )



# Refining products import / export ( m. tons )

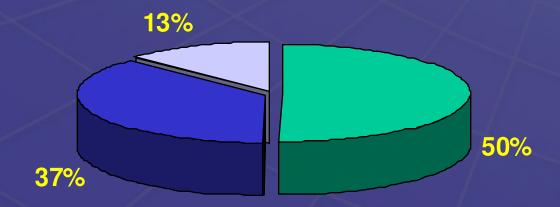


import export



# **Review – Oil products**

#### Crude processing



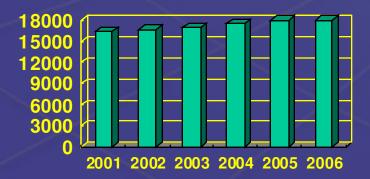
■ Sinopec
■ Petrochina
■ Others



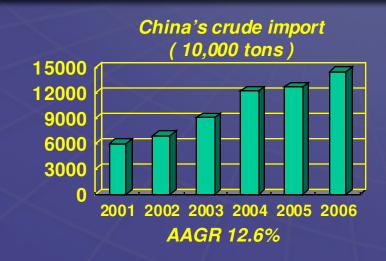
- Insufficient Resources Supply: Pressure and Challenges for the Industry
  - ✓ China is world's 2nd largest crude oil consumer
  - ✓ 2006 crude import accounted for 43% of the nation's total consumption
  - ✓ China's reliance on crude import will reach 46% and 60% in 2010 and 2020, respectively

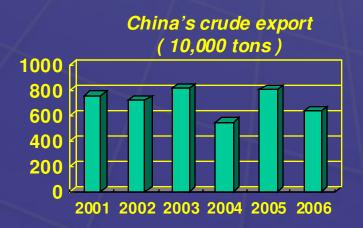


China's crude production (10,000 tons)



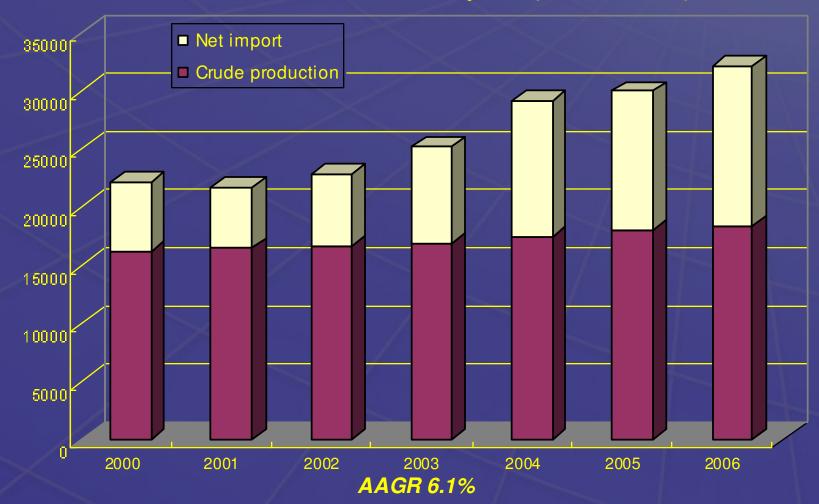
**AAGR 2.1%** 





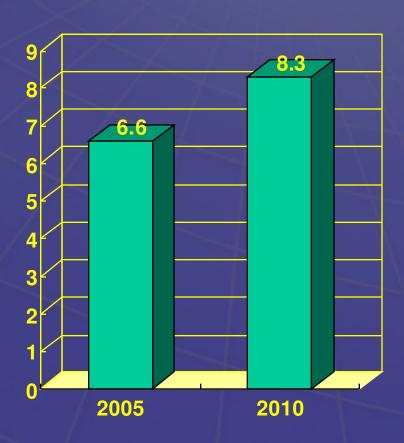


#### China's crude oil consumption (10,000 tons)



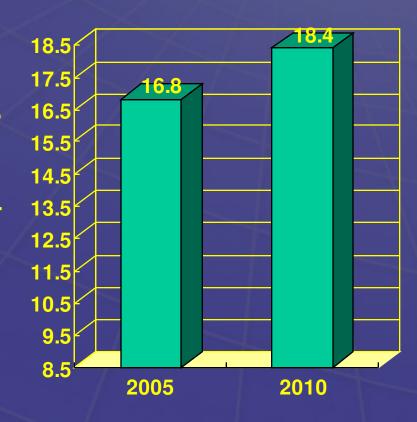


- Refining Industry of Middle
  East developing fastly ...
  - ✓ 2005~2010, Middle East will add 1.7 m b/d refining capacity.
  - ✓ Major refining capacity growth in Iran, Saudi and Iraq.





- Refining Industry of Indian also developing rapidly ...
  - ✓ 2005~2010 , Asia-Pacific ( excl. China ) adds new refining capacity of 1.6 m b/d to hit 18.4 m b/d.
  - ✓ The highest capacity growth is India, rising by 1.0 m b/d (62% in area).





- China's WTO commitment fastening market liberalization for products
  - ✓ Step-by-step open in wholesale market for refined oil products
  - ✓ Continued increase and non-state trading import quota for crude oil and refined products



- High oil price will influence refining industry for long-term view.
  - ✓ Super active investment and R&D in alternative energy, e.g. nuclear, coal, GTL, bio-ethanol, etc.



# **Opportunities**

- Huge market demand and top-line growth rate
  - ✓ 2020 China's GDP will be four times compared with 2000.
  - ✓ Upgrade of social consumption will promote refining and petrochemical industry
  - ✓ Stimulization from downstream industry, e.g. transportation, automobile, textile & costume, chemical building materials, electronics , etc.

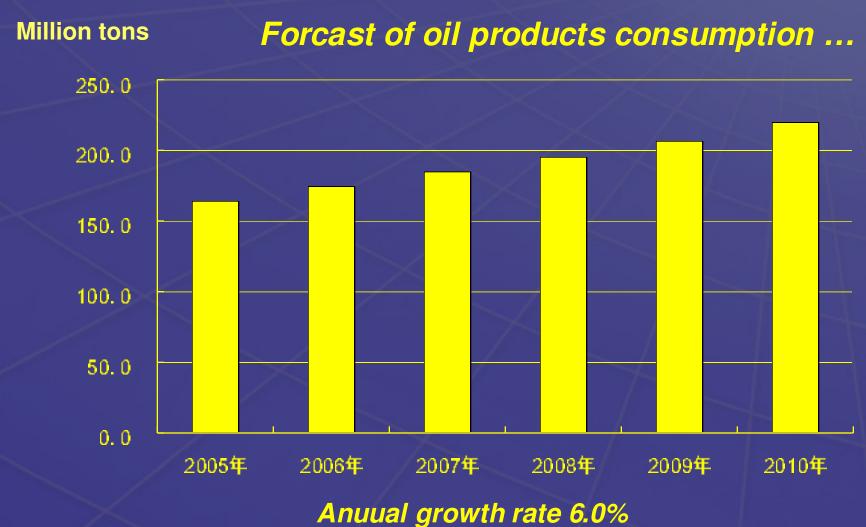


# **Opportunities**

- Huge market demand and top-line growth rate
  - ✓ Growth rate of oil products consumption : GDP growth rate \* (  $0.5 \sim 0.6$  )

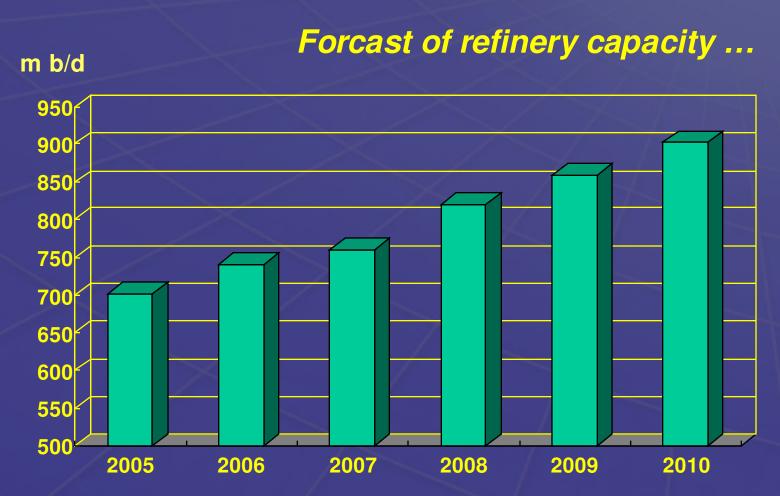


## **Industry Outlook** – oil products ....





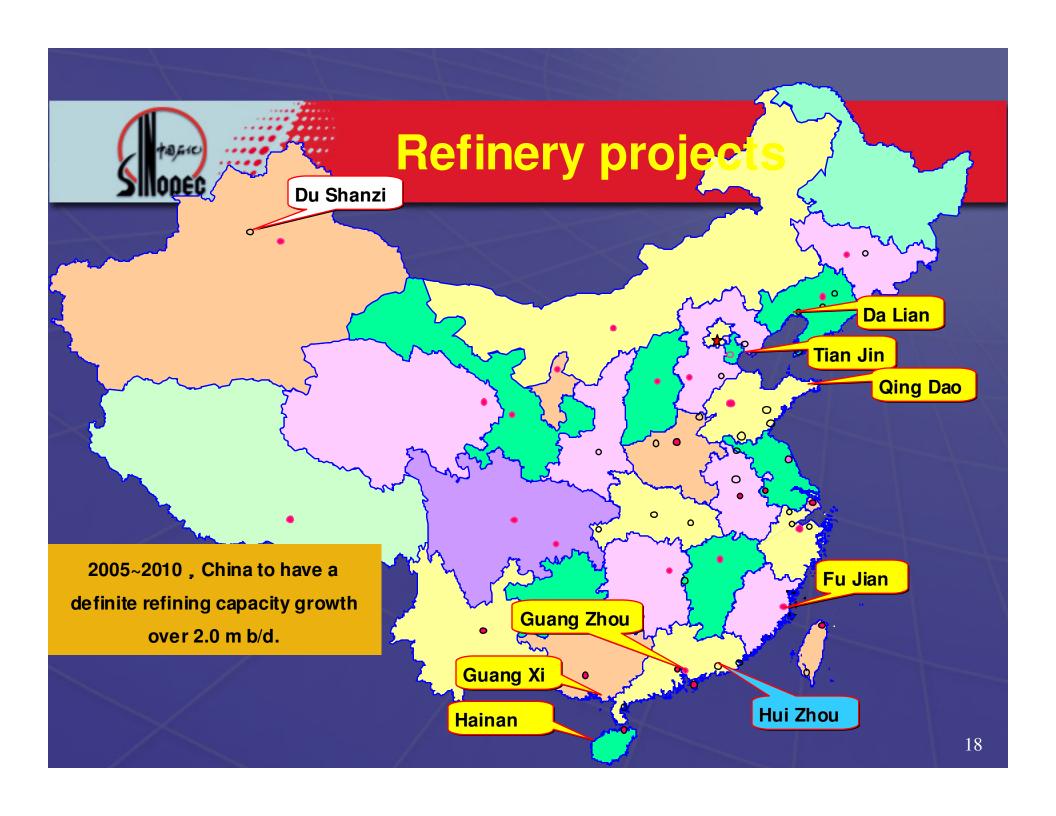
# Industry Outlook – oil products ...





# **Industry Outlook – oil products ...**

#### 2010 refining capacity 2005 refining capacity 17% 3% 46% 48% 40% 37% **■ SINOPEC** ■ PetroChina SINOPEC **■ PetroChina** ■ CNOOC **■ Others ■ Others**





# Thank you!