

International Energy Outlook to 2025:

The Growing Role of China and India

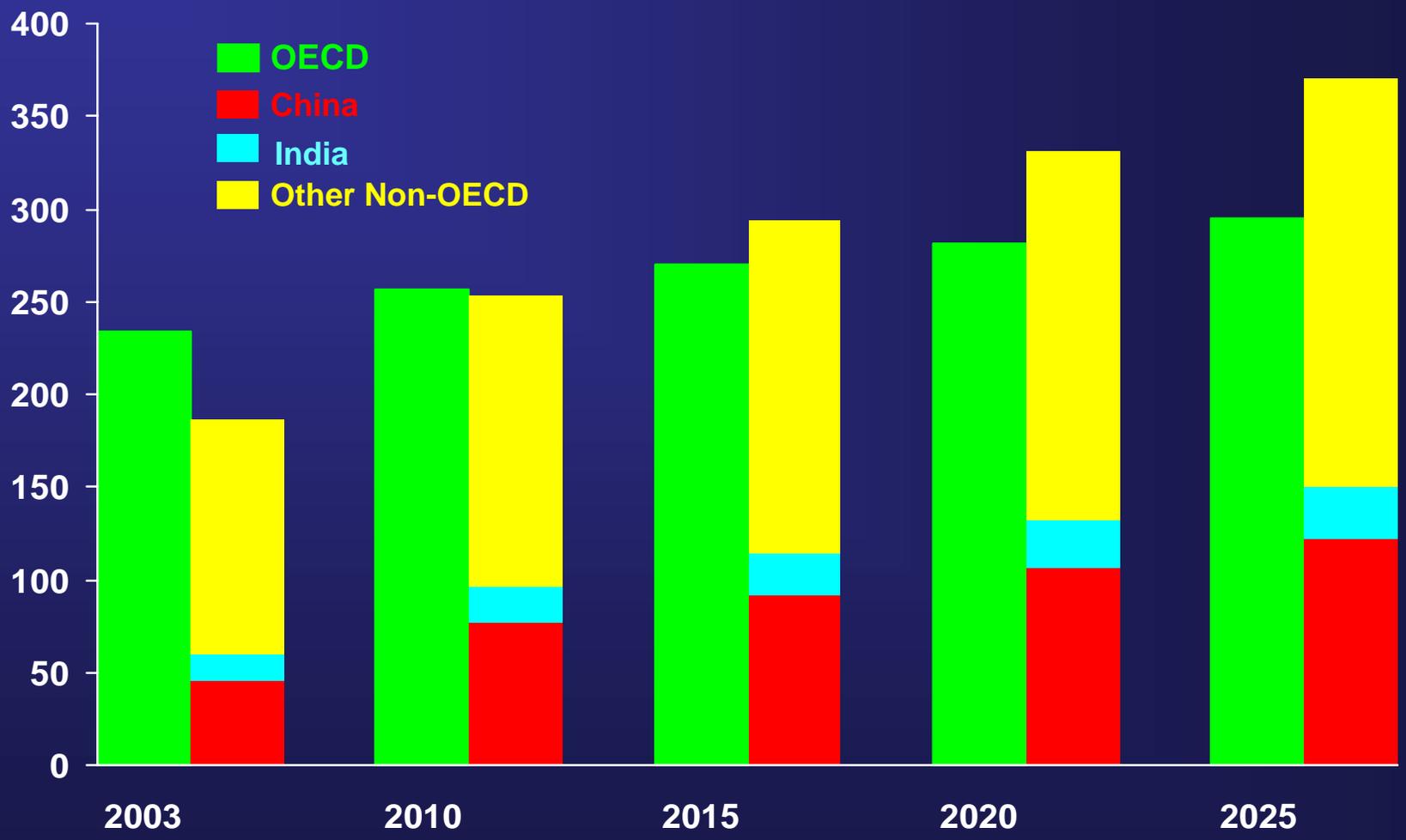
Guy Caruso
U.S. Department of Energy

San Francisco, CA
February 15, 2007

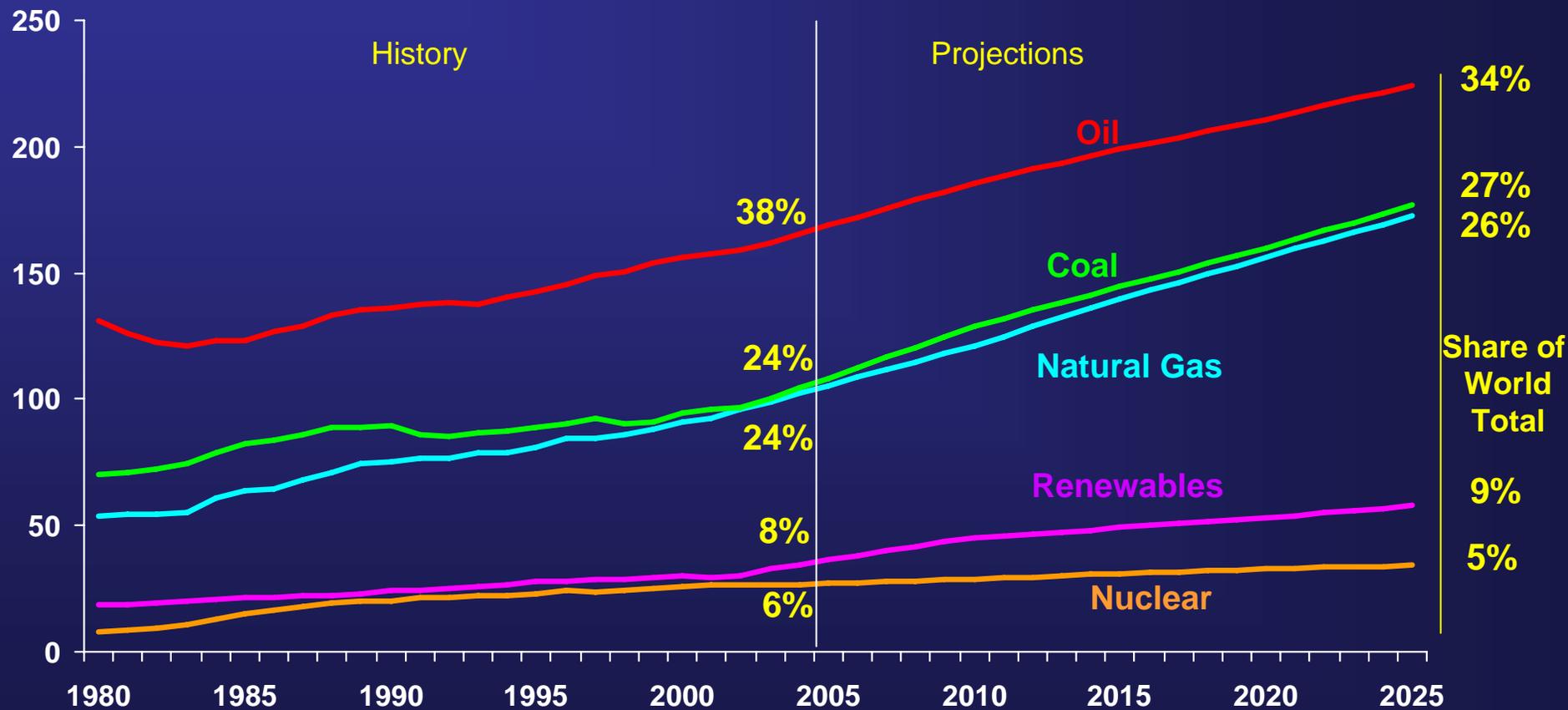
International Energy Outlook to 2025 ...

- Worldwide marketed energy consumption is projected to grow by 58 percent between 2003 and 2025.
- China and India alone account for 37 percent of the world increase in energy use over the period.
- China and India account for 31 percent of the world increase in oil use between 2003 and 2025; 71 percent of the increase in coal use; but only 10 percent of the projected world increment in natural gas use.
- China and India combined account for 45 percent of the world increase in carbon dioxide emissions between 2003 and 2025.

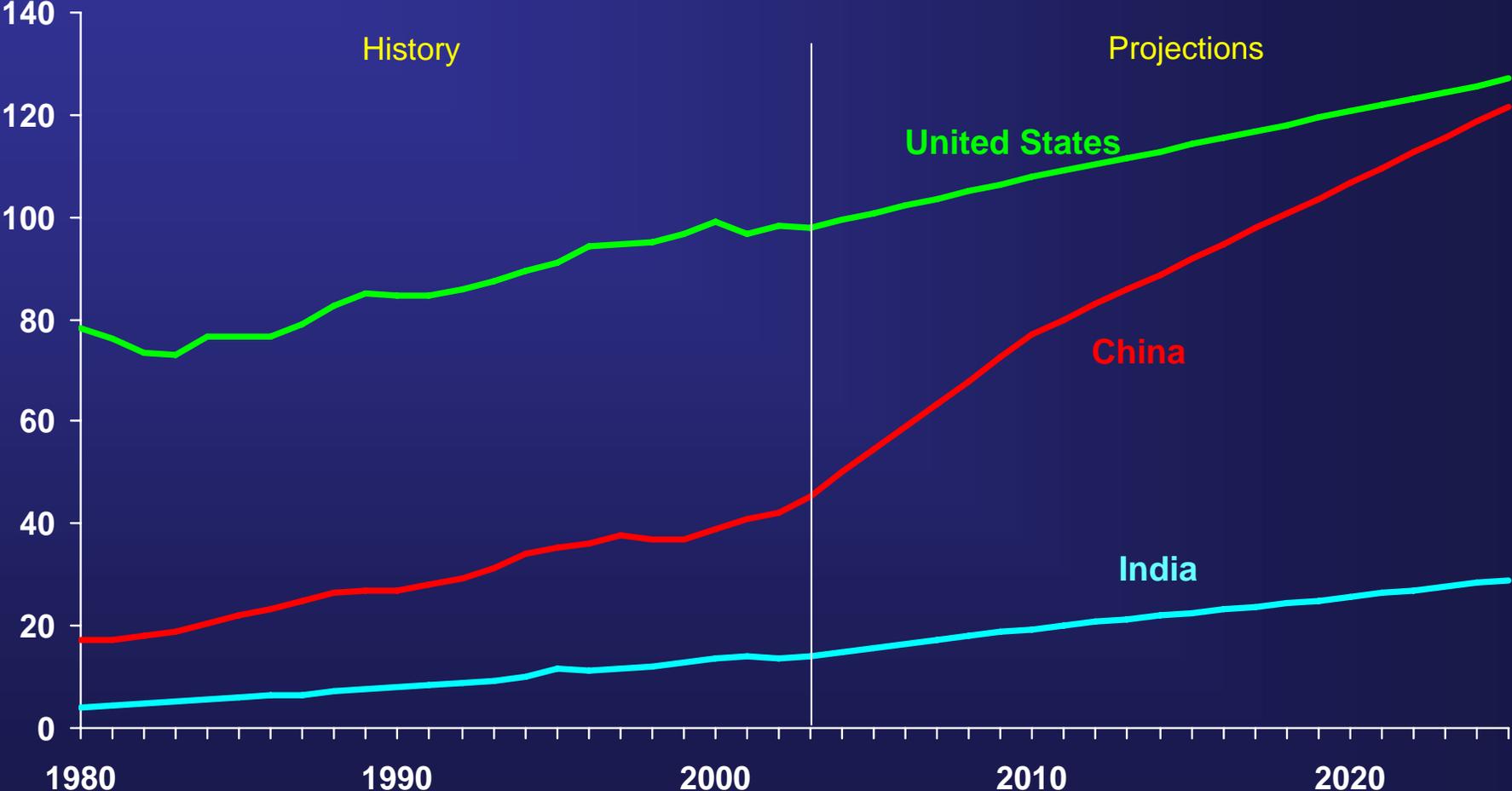
World Energy Consumption by Region, 2003-2025 (quadrillion Btu)



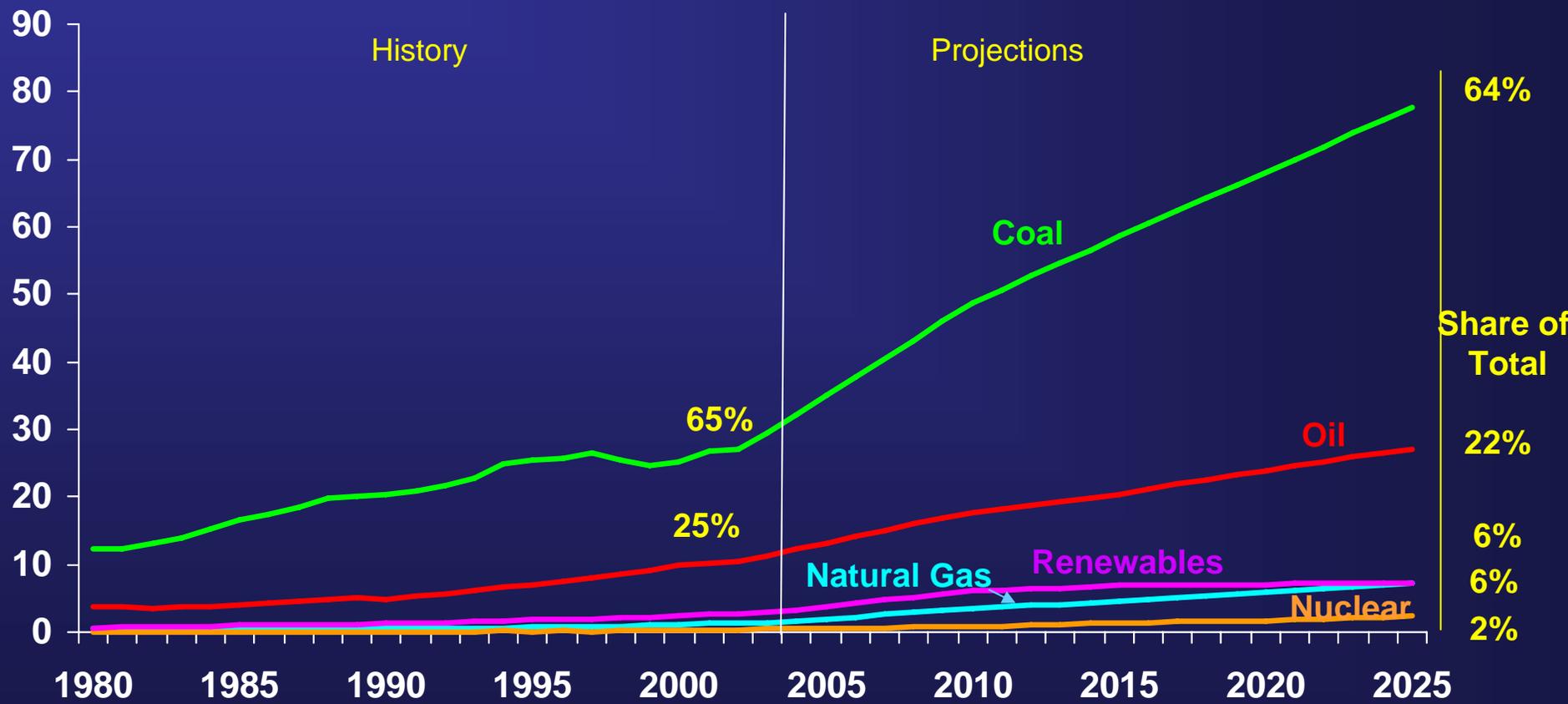
World Marketed Energy Use by Fuel, 1980-2025 (quadrillion Btu)



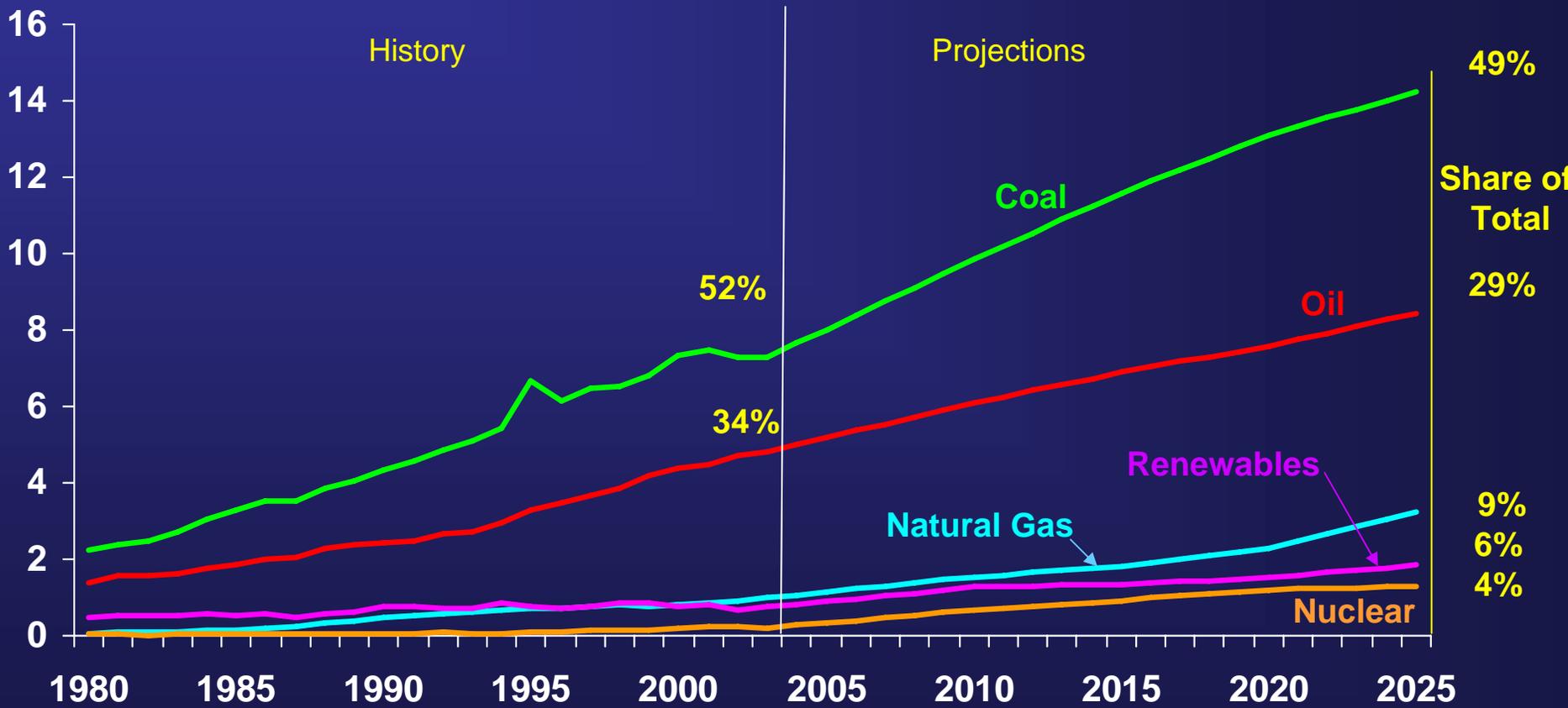
Energy Consumption in the United States, China, and India, 1980-2025 (quadrillion Btu)



Chinese Marketed Energy Use by Fuel, 1980-2025 (quadrillion Btu)

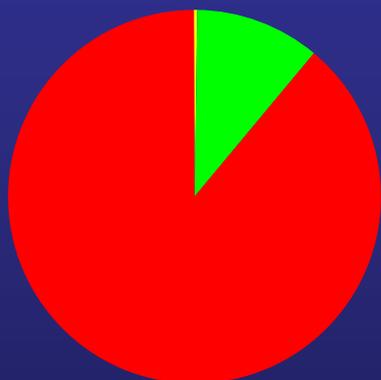


Indian Marketed Energy Use by Fuel, 1980-2025 (quadrillion Btu)

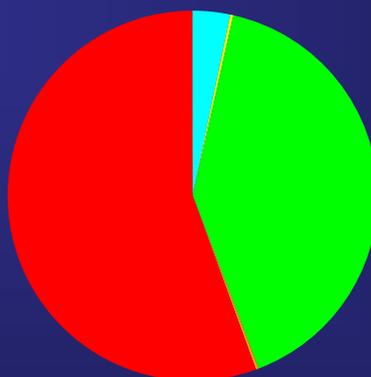


Coal Use by Sector in the United States, China, and India, 2025

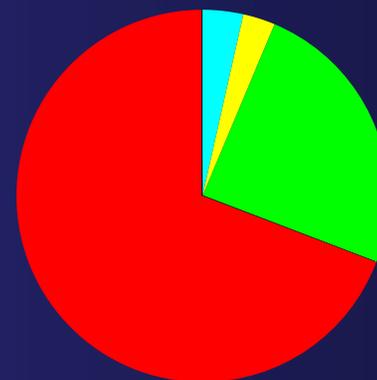
United States



China



India



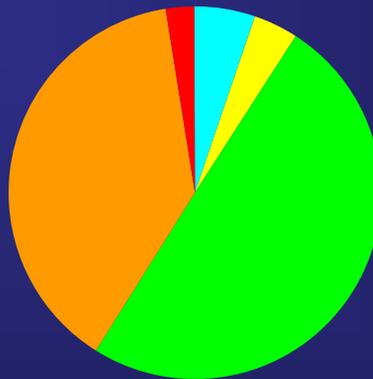
■ Residential ■ Commercial ■ Industrial ■ Transportation ■ Electric Power

Oil Use by Sector in the United States, China, and India, 2025

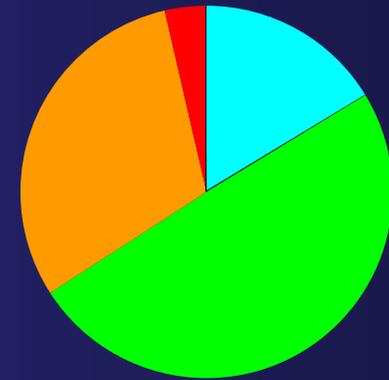
United States



China

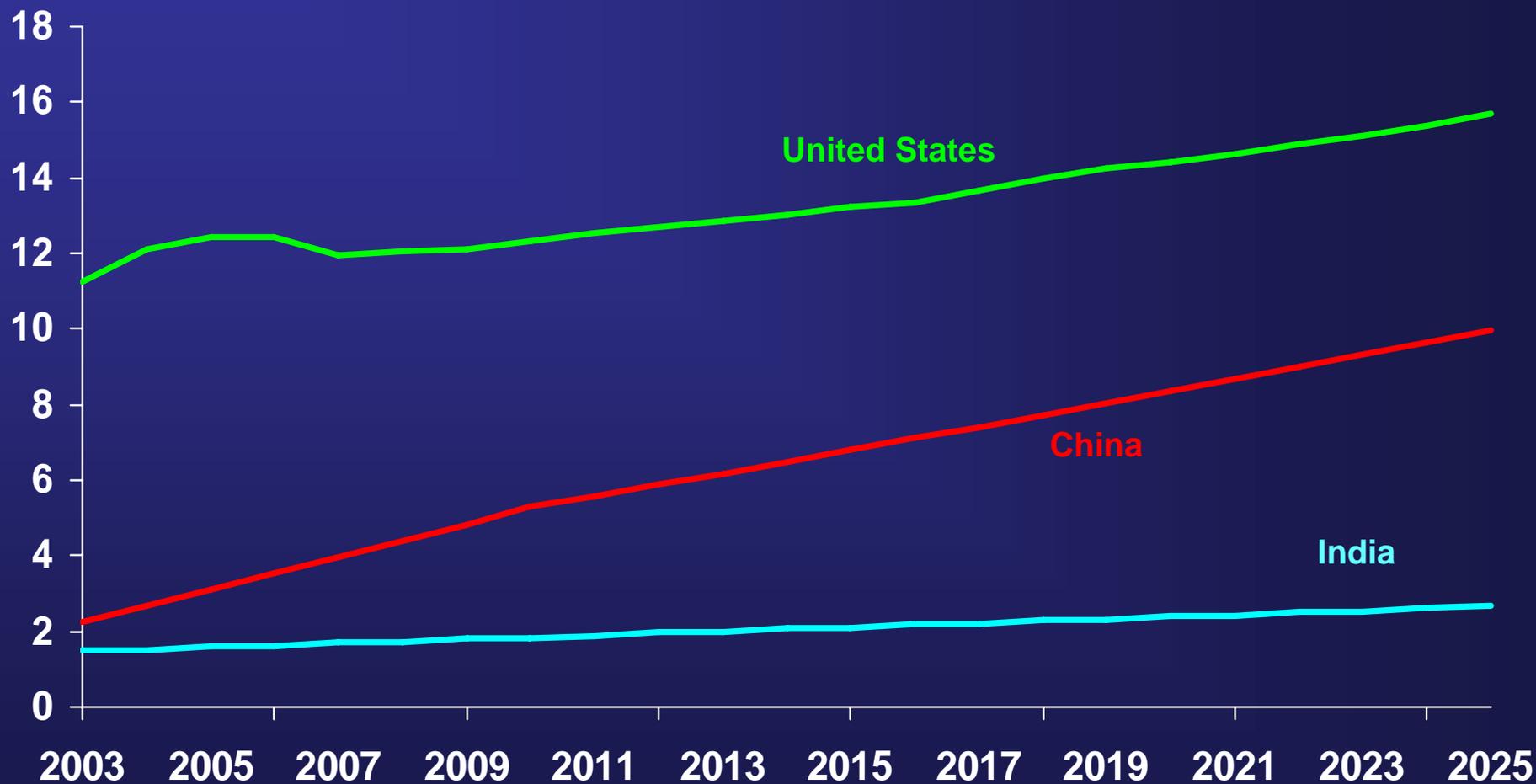


India

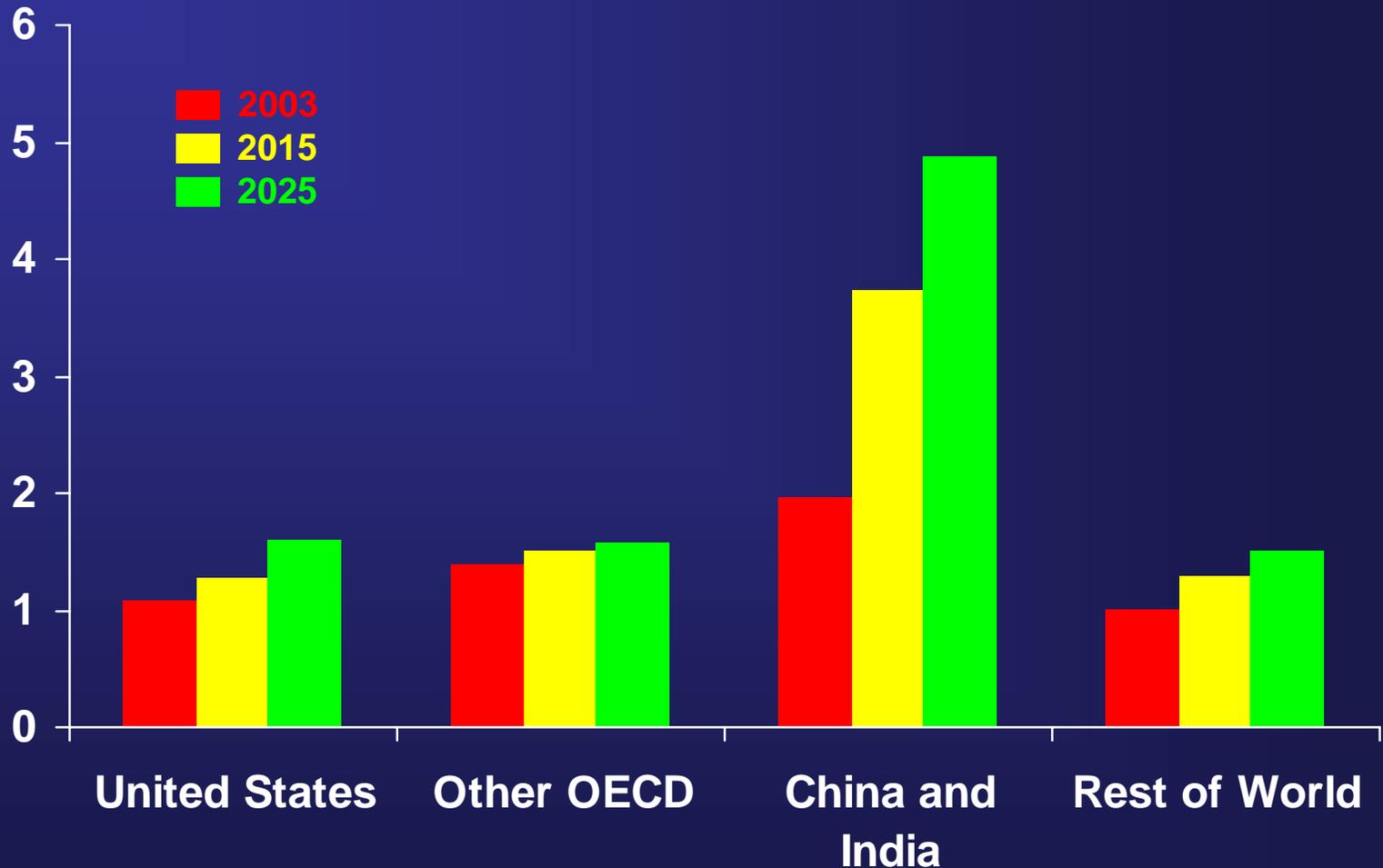


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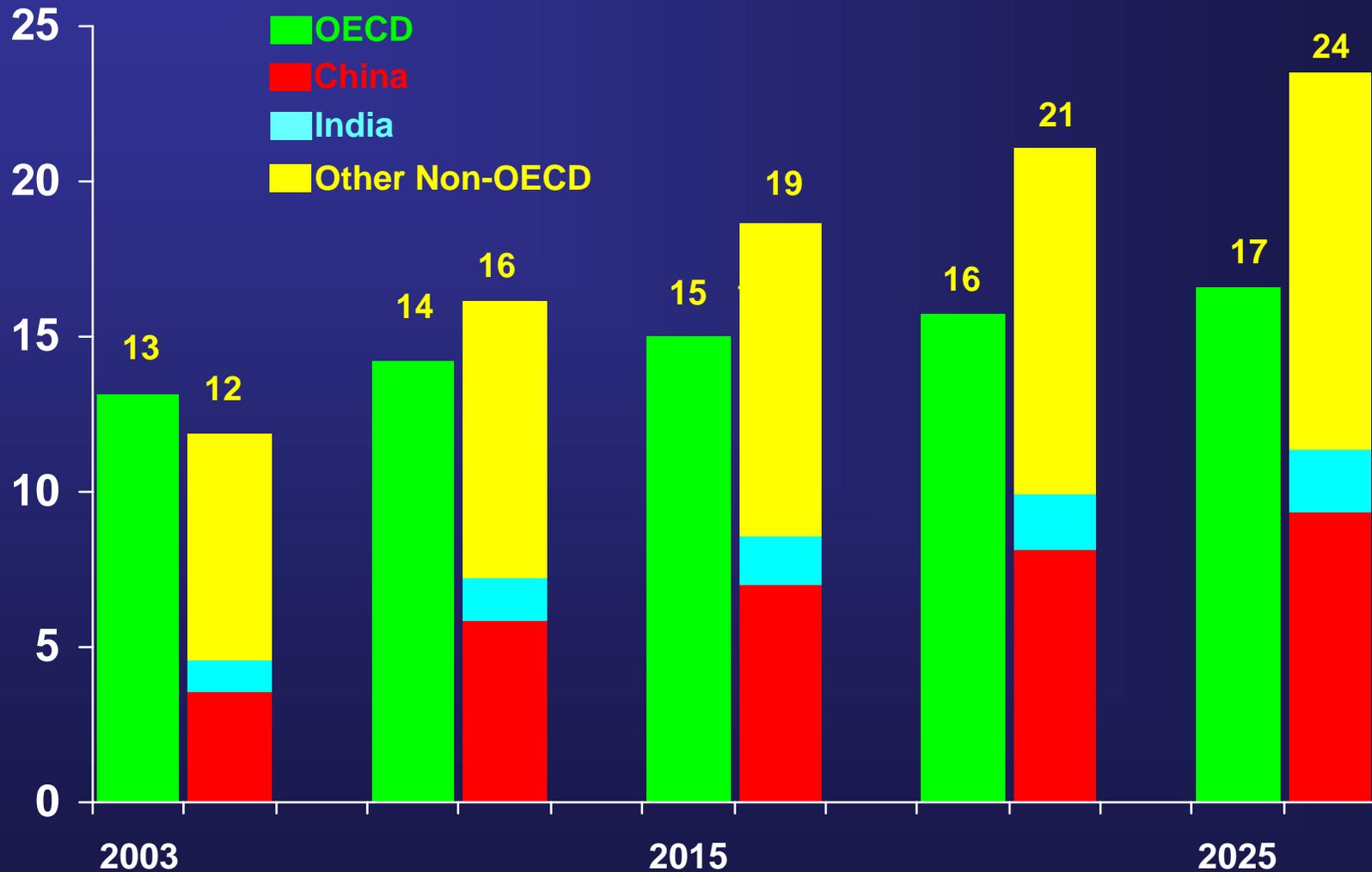
Net Oil Imports in the United States, China, and India, 2003-2025 (million barrels per day)



World Coal Consumption by Region (billion short tons)



World Carbon Dioxide Emissions, 2003-2025 (billion metric tons)



Major Trends in the *International Energy Outlook 2006* ...

- Total world energy use grows by 245 quadrillion Btu between 2003 and 2025.
- Coal and oil use combined account for 60 percent of total world energy use in 2025.
 - World oil use grows by 1.5 percent per year.
China and India combined account for 31 percent of the worldwide increment in oil use.
 - World coal use grows by 2.6 percent per year.
China and India combined account for 71 percent of the worldwide increment in coal use.

Periodic Reports

Petroleum Status and Natural Gas Storage Reports, weekly

Short-Term Energy Outlook, monthly

Annual Energy Outlook 2007, February 2007

International Energy Outlook 2006, June 2006

Examples of Special Analyses

“Economic Effects of High Oil Prices,” Annual Energy Outlook 2006

Analysis of Oil and Gas Production in the Arctic National Wildlife Refuge,

March 2004

The Global Liquefied Natural Gas Market: Status and Outlook, December 2003

“Restricted Natural Gas Supply Case,” Annual Energy Outlook 2005

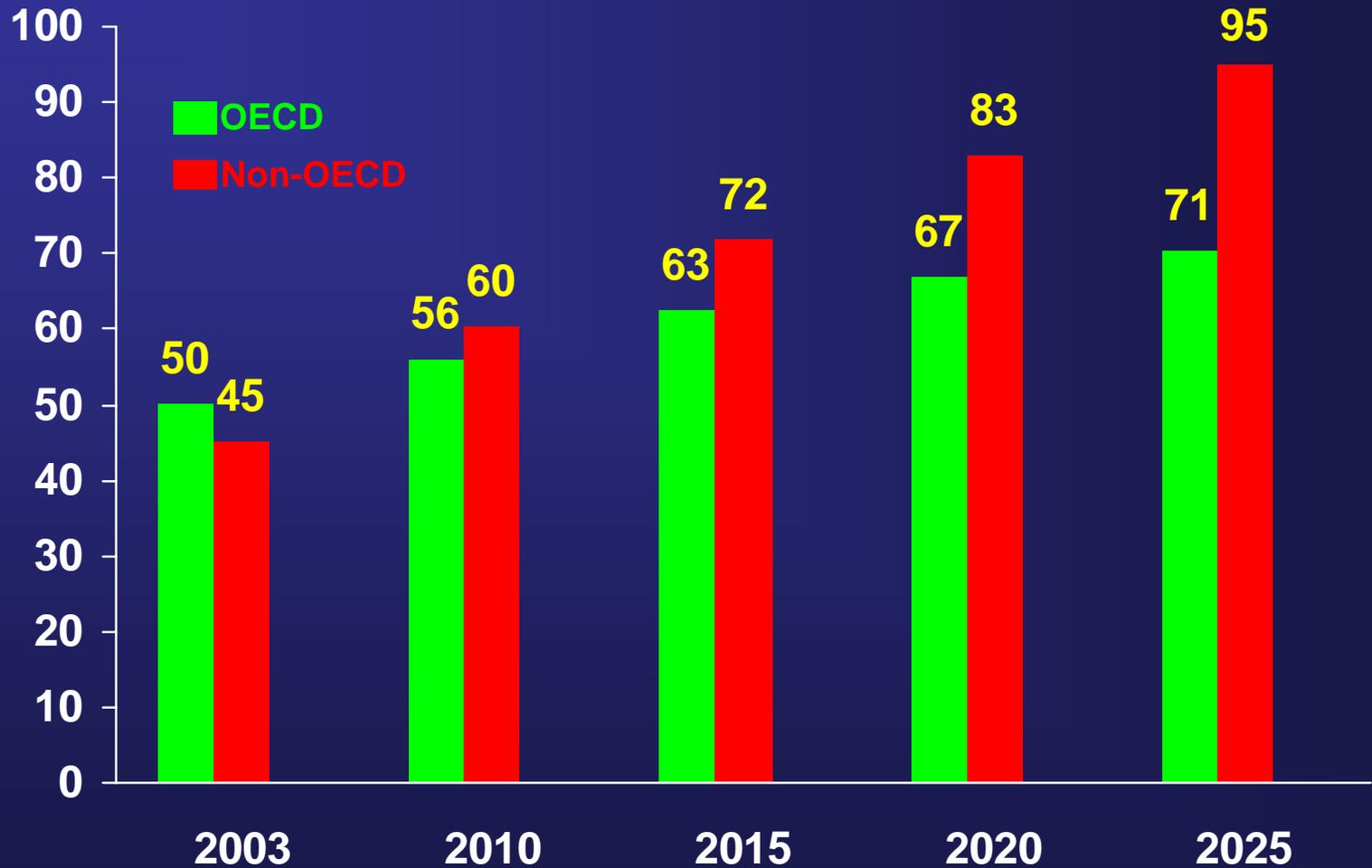
www.eia.doe.gov

Guy F. Caruso guy.caruso@eia.doe.gov

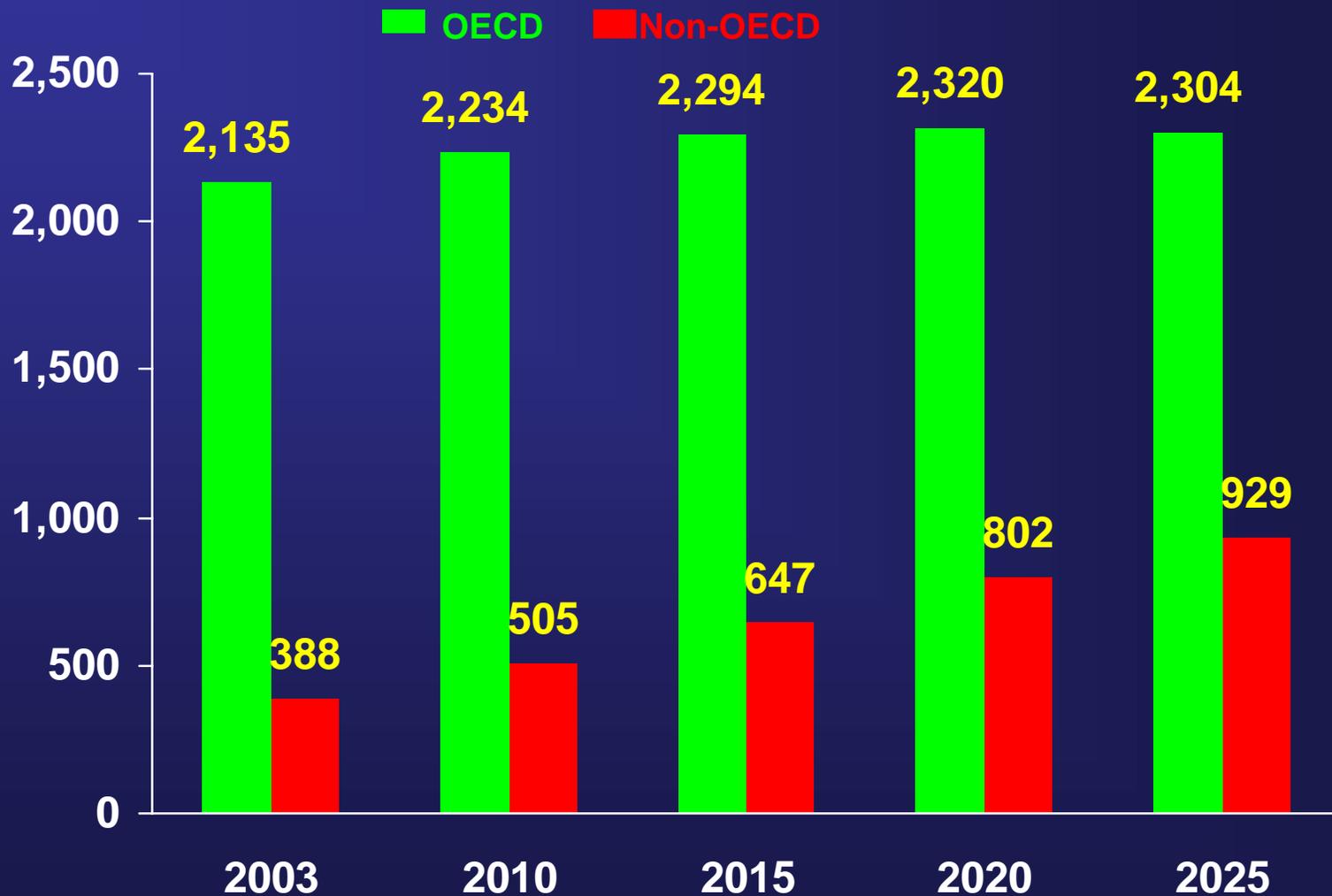
Supplementary slides follow



World Natural Gas Consumption, 2003-2025 (trillion cubic feet)



World Nuclear Power Generation, 2003-2025 (billion kilowatthours)



World Renewable Energy Use, 2003-2025 (quadrillion Btu)

