

Energy Issues in Developing Countries:

Forecasts from the *International Energy Outlook 2005*

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Energy Information Administration

A Marshall Plan for Energy and Water Working Group

Washington, DC

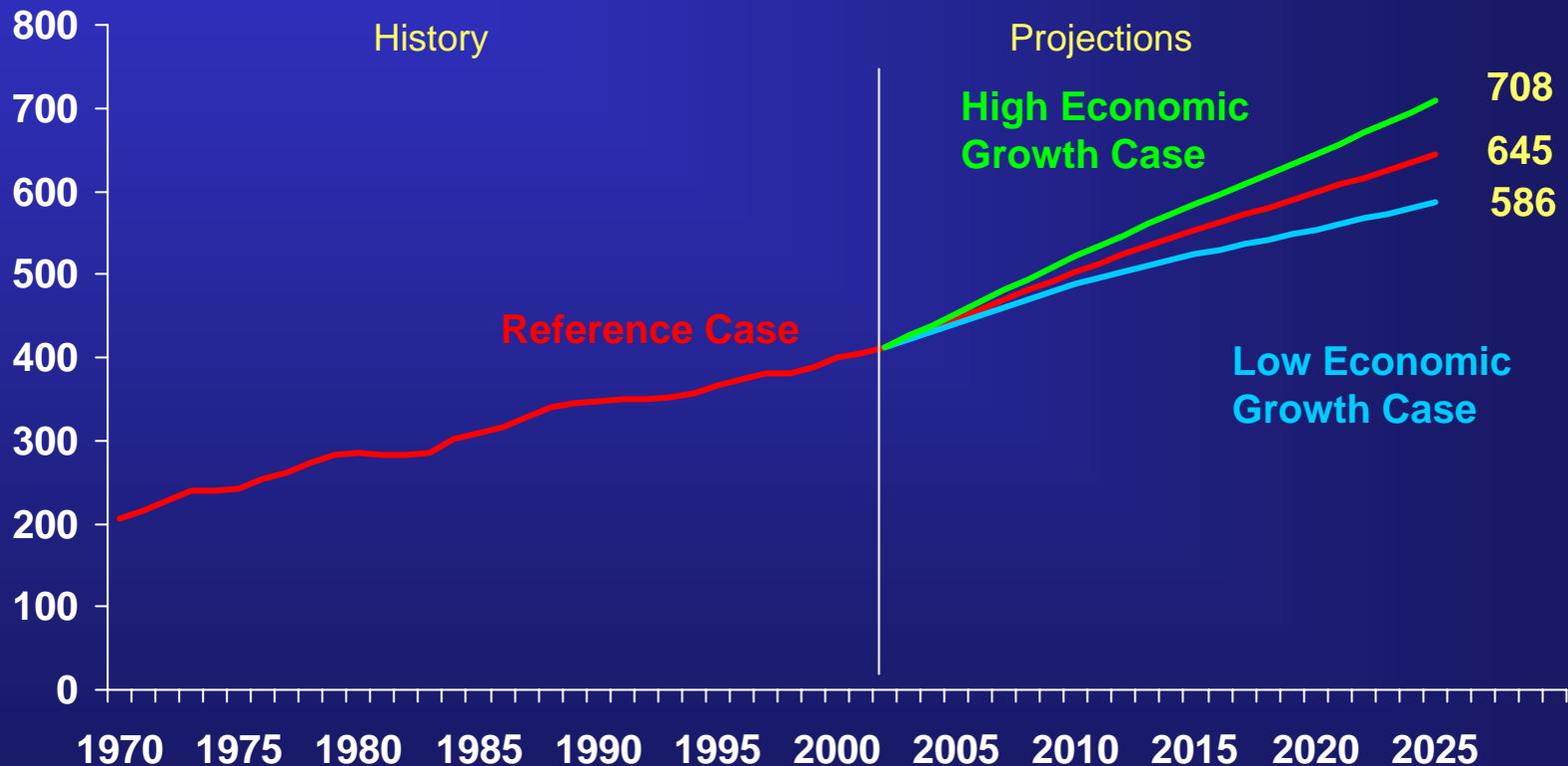
July 27, 2005



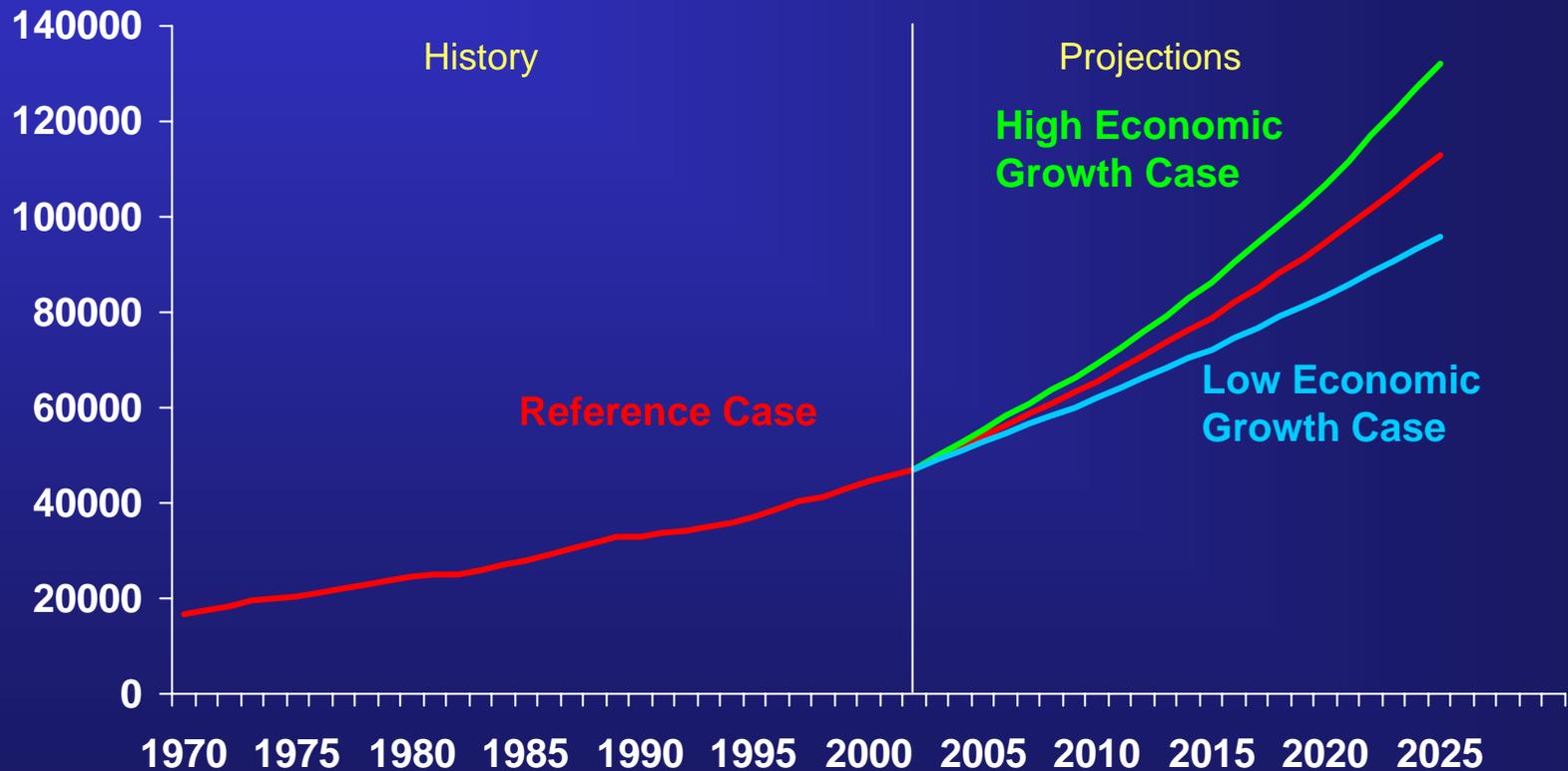
Major trends in the *IEO2005* forecast:

- Total world energy use is about 20 quadrillion Btu higher in 2025 than in last year's *IEO*—mostly because of higher levels of coal consumption.
- World oil demand in 2025 is 2 million barrels per day lower than in last year's *IEO*.
- The United States and emerging Asia account for the largest share of the world's increase in oil demand over the forecast period—64 percent.
- Carbon dioxide emissions are somewhat higher than in last year's forecast, given the increase in coal use in the emerging Asia region.

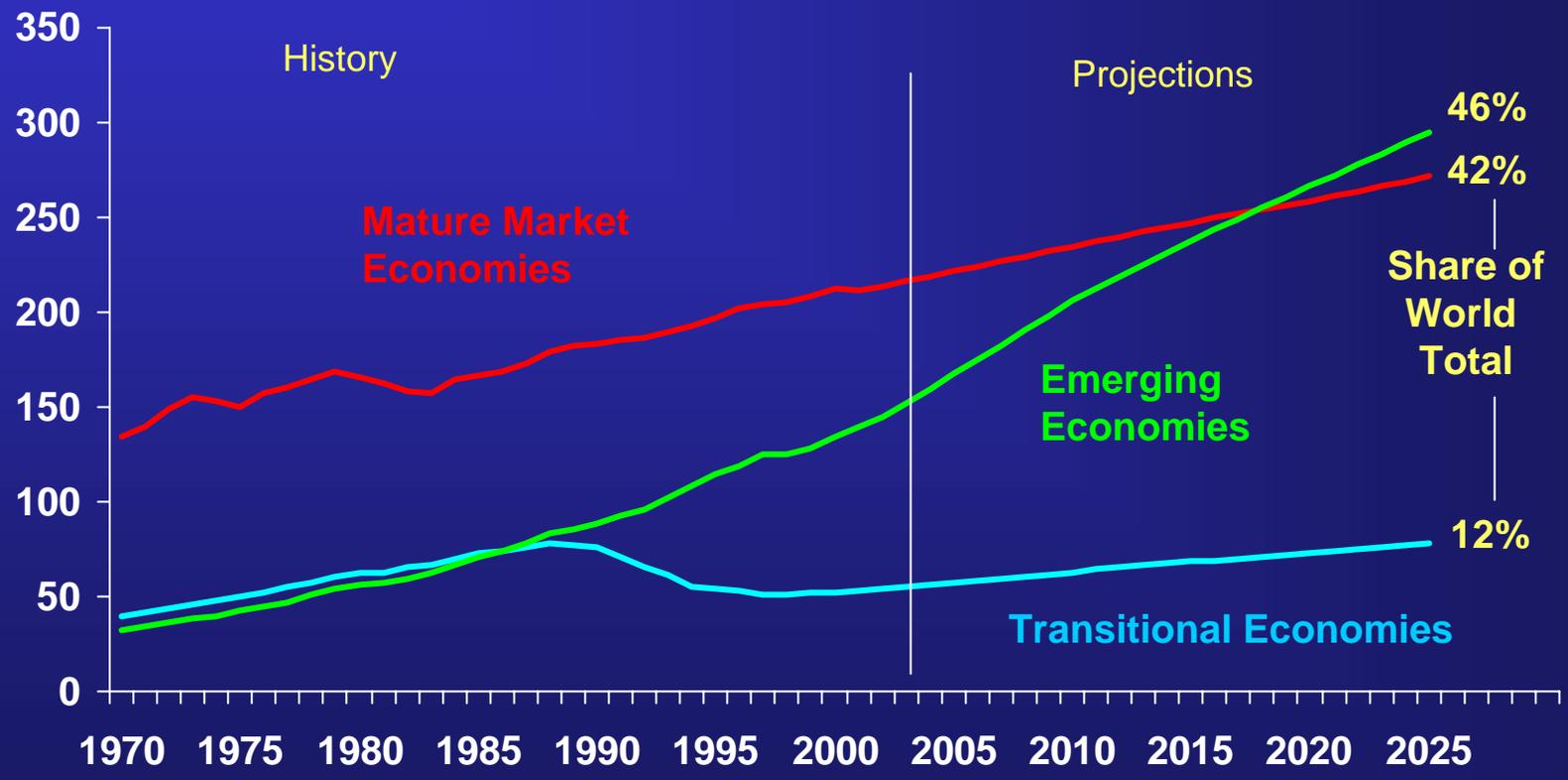
World Marketed Energy Consumption in Three Economic Growth Cases, 1970-2025 (quadrillion Btu)



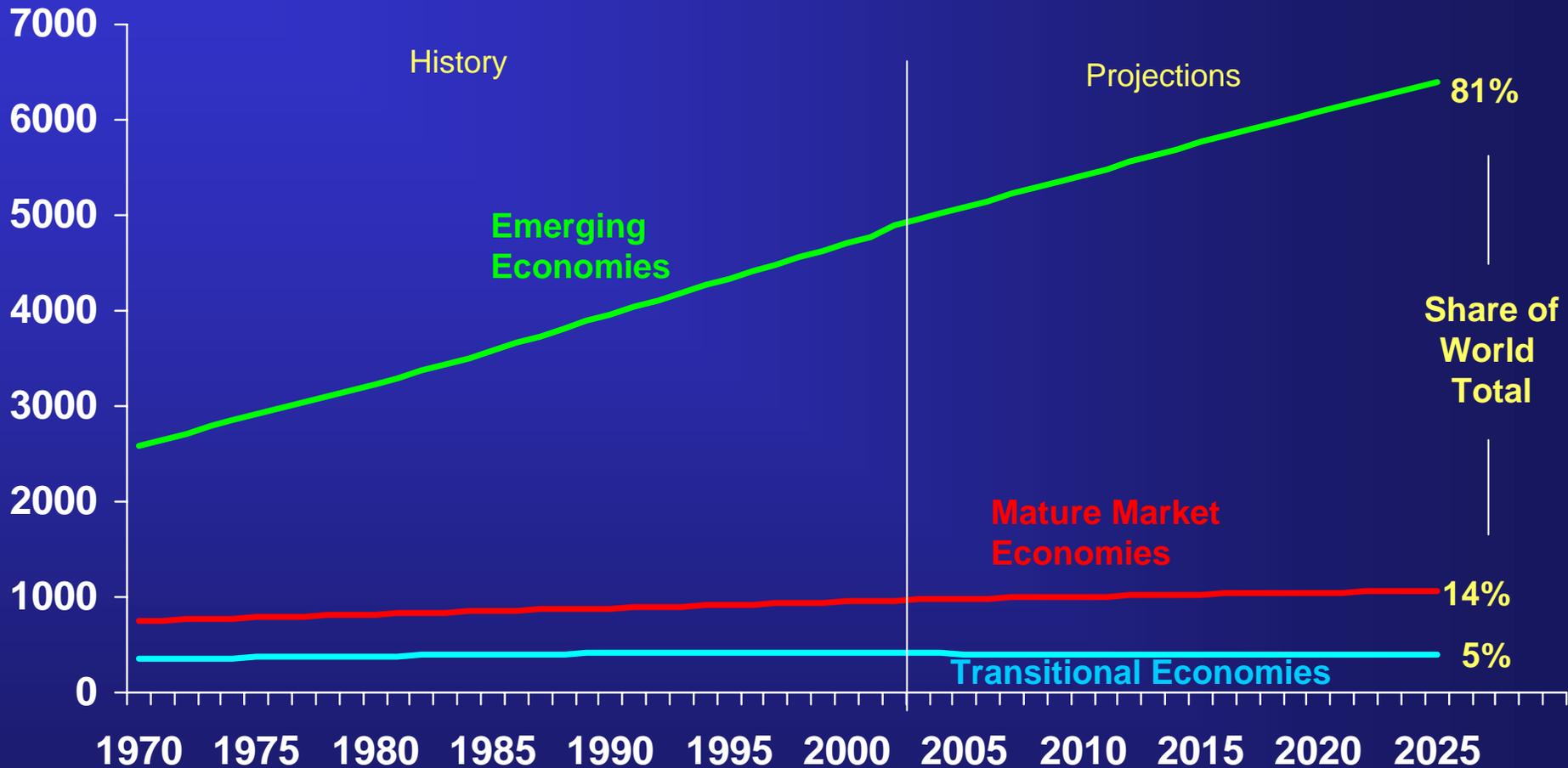
World Gross Domestic Product in Three Economic Growth Cases, 1970-2025 (billion 2000 U.S. dollars)



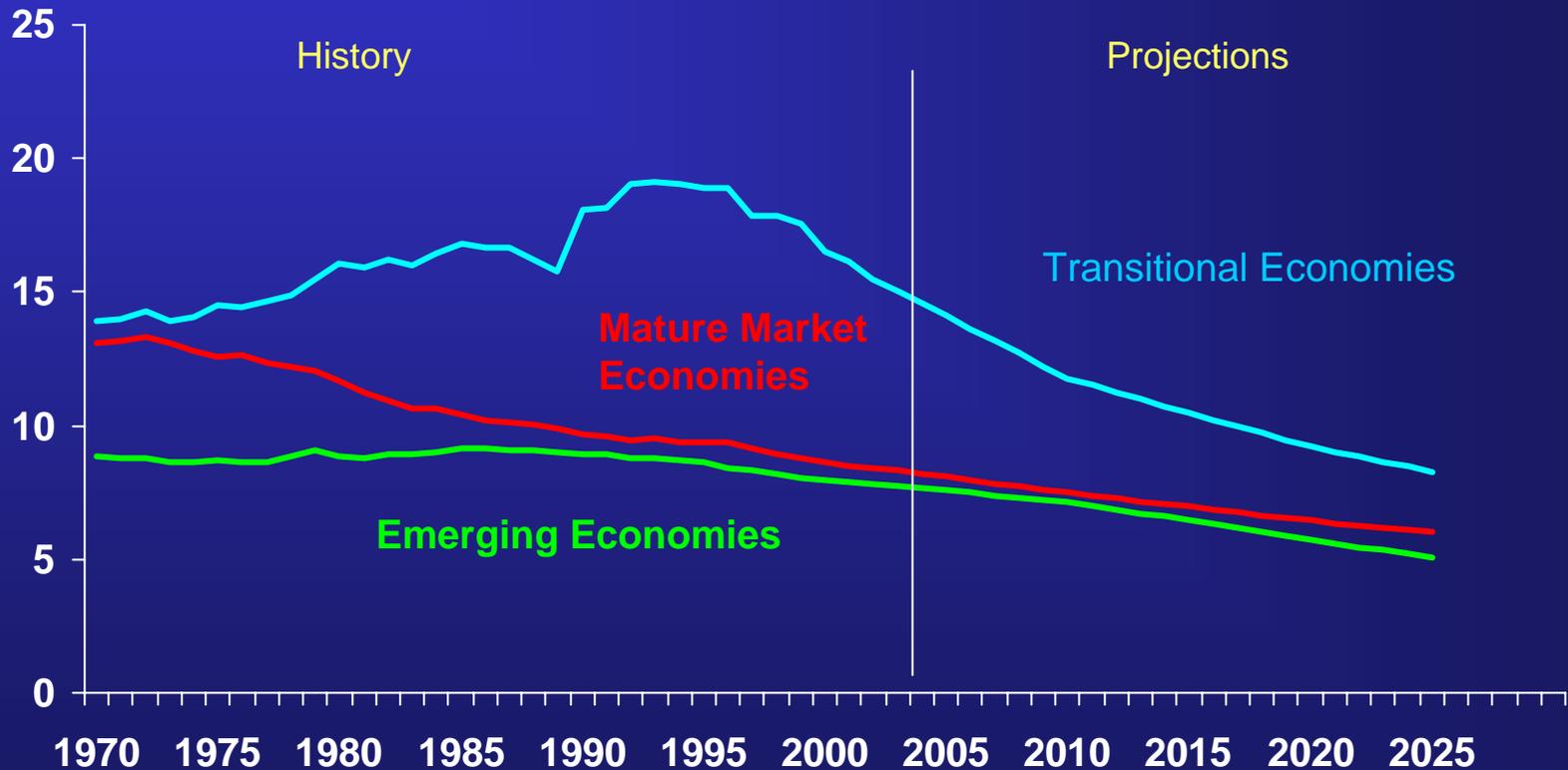
World Marketed Energy Consumption by Region, 1970-2025 (quadrillion Btu)



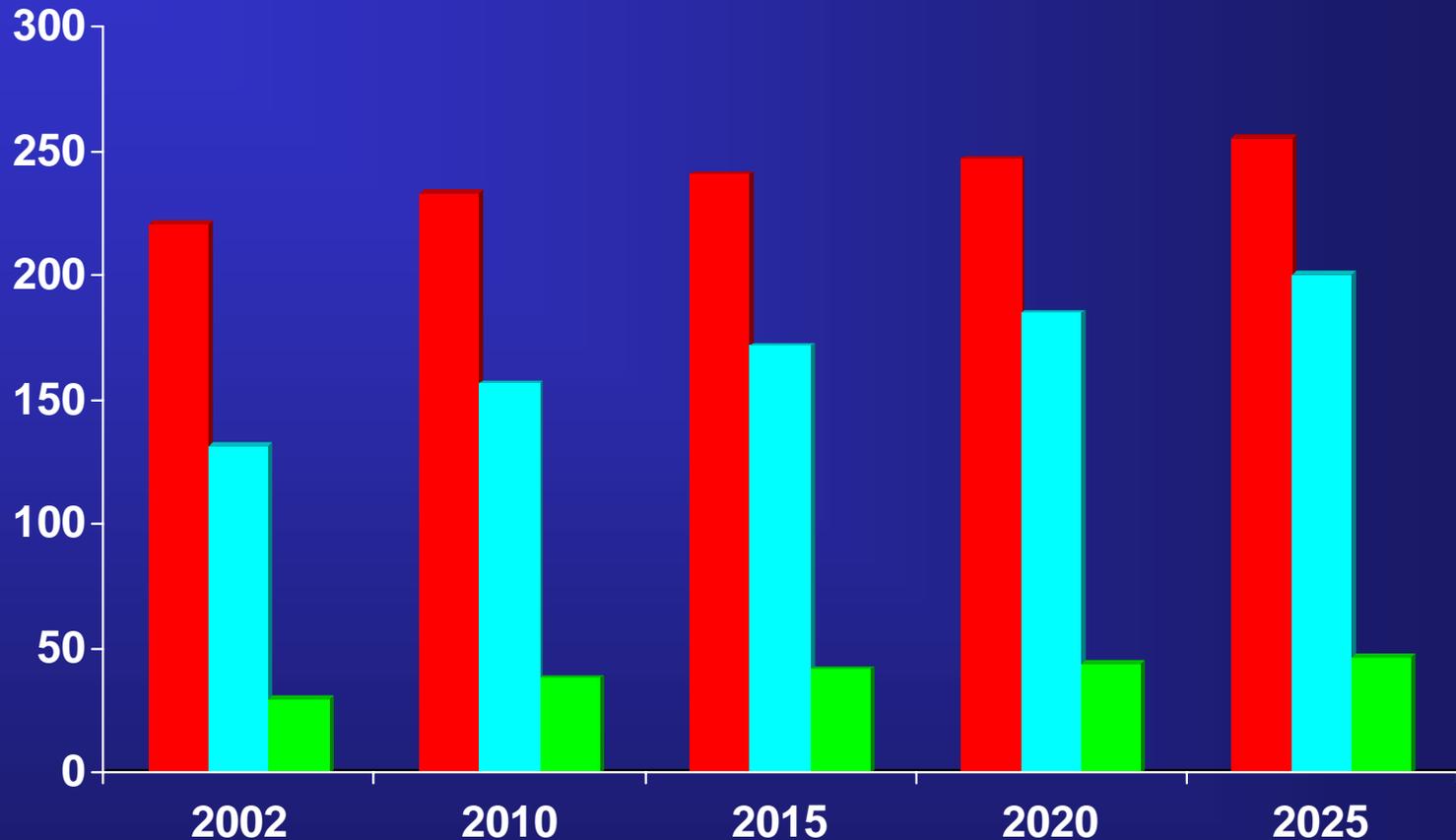
World Population by Region, 1970-2025 (millions)



Energy Intensity by Region, 1970-2025 (thousand Btu per thousand dollars of GDP)

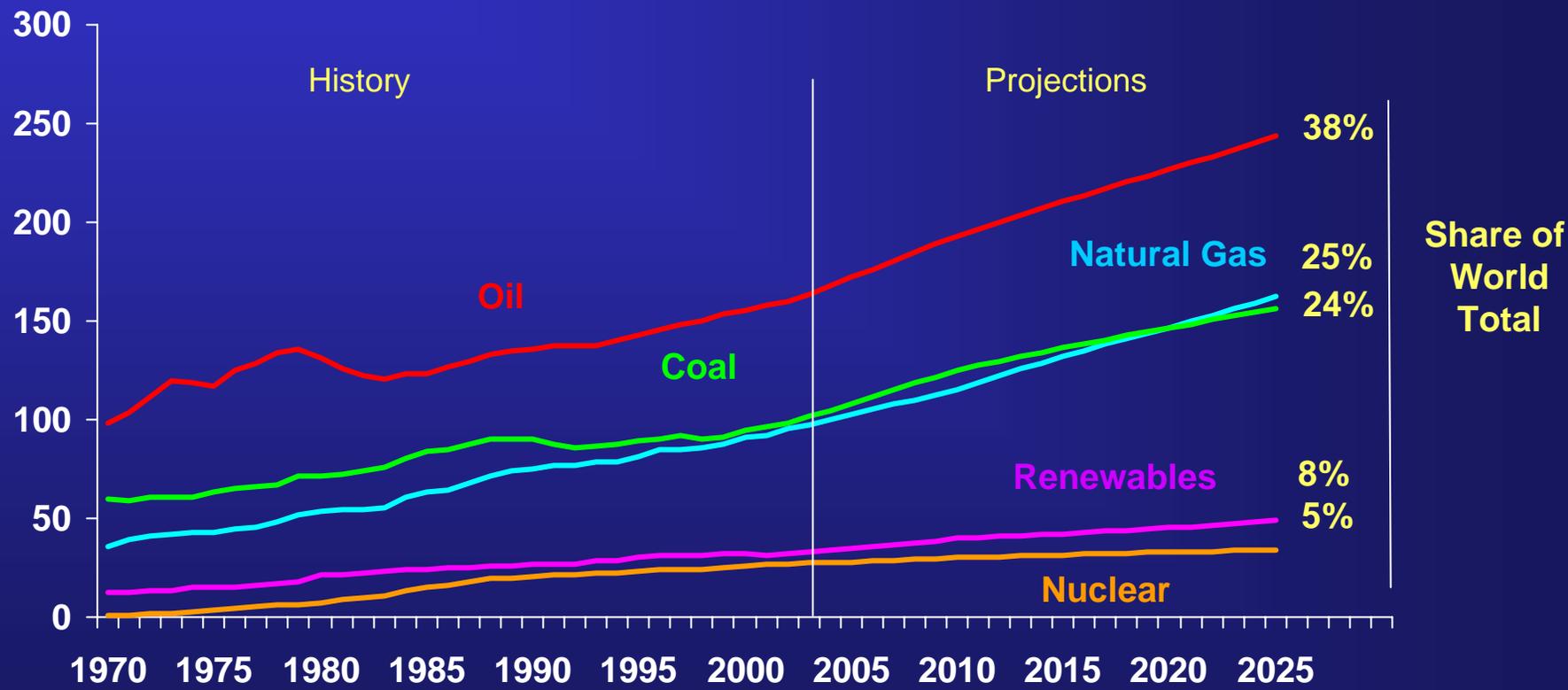


World Energy Use per Capita by Region, 2002-2025 (million Btu per person)



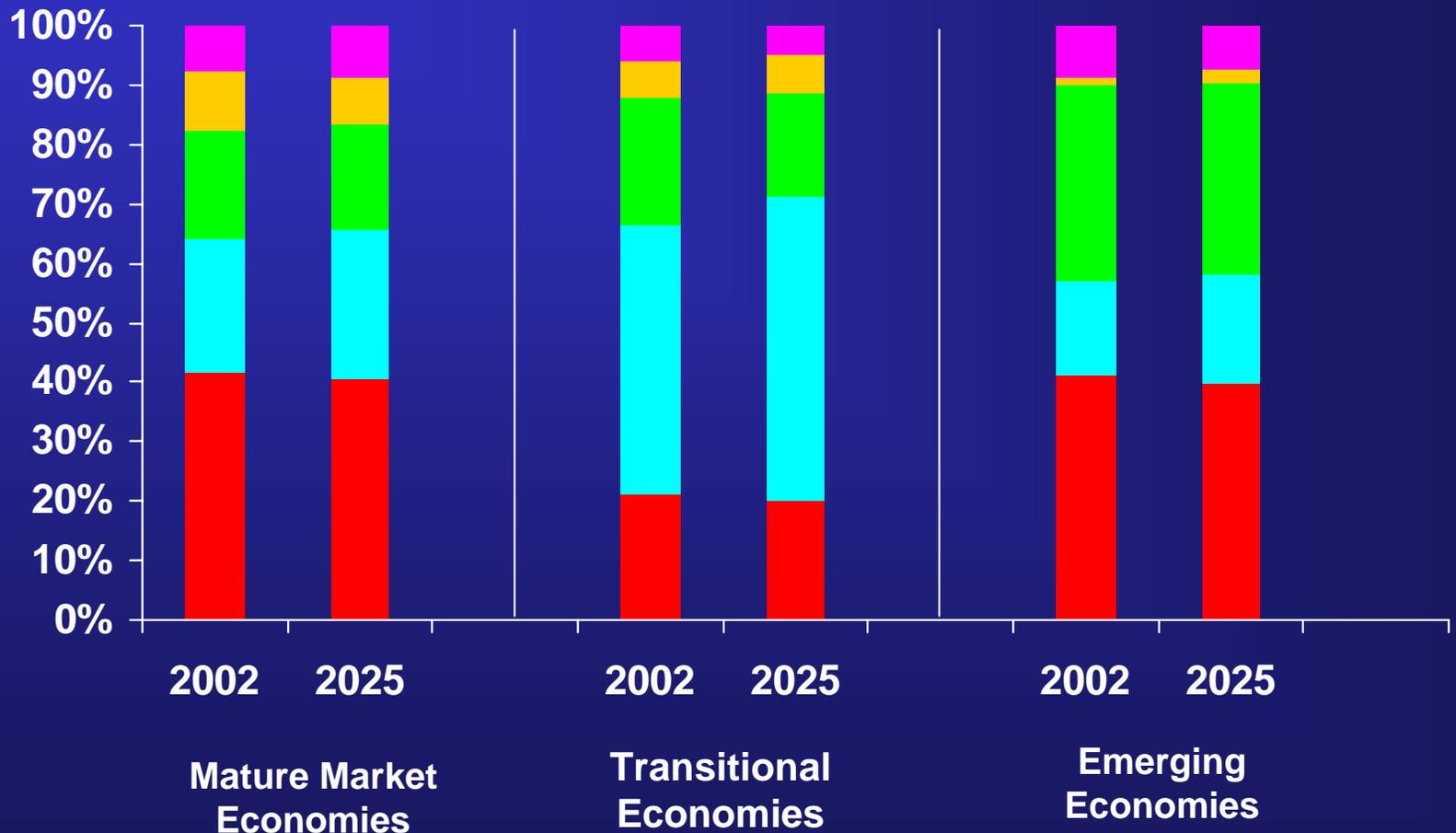
■ Mature Market Economies ■ Transitional Economies ■ Emerging Economies

World Primary Energy Consumption by Fuel Type, 1970-2025 (quadrillion Btu)

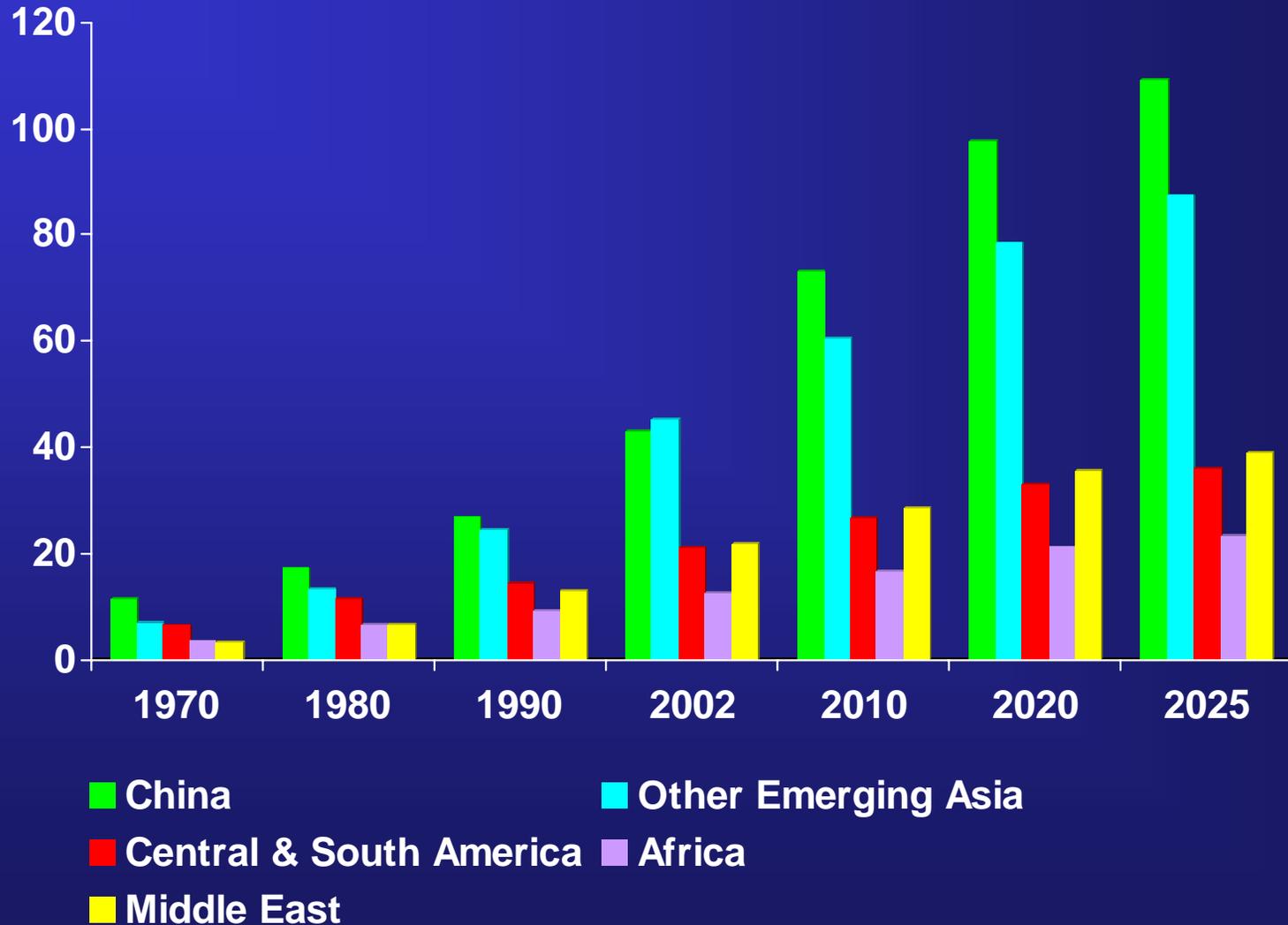


Share of Energy Consumption by Region and Fuel, 2002 and 2025 (percent)

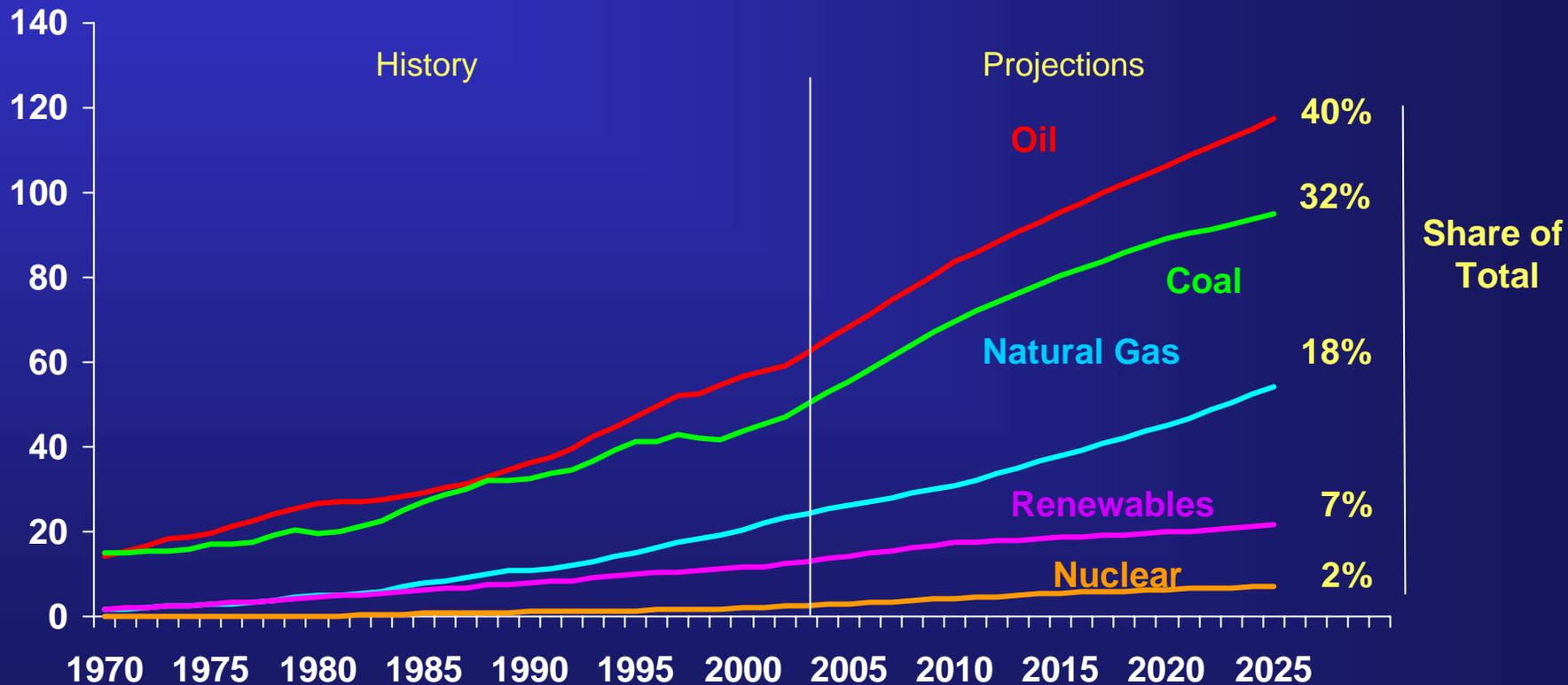
Oil Natural Gas Coal Nuclear Renewables



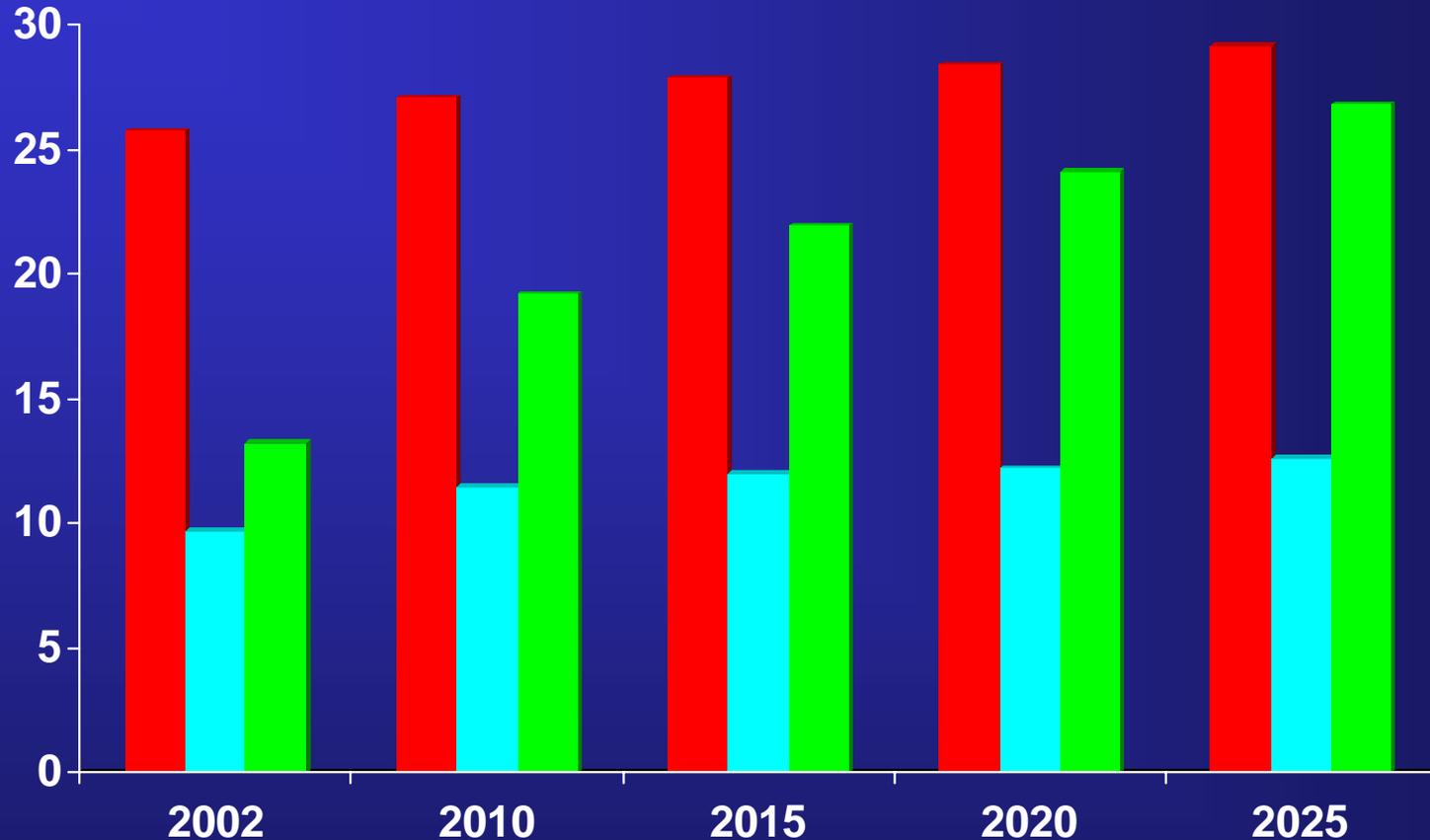
Energy Consumption in the Emerging Economies, 1970-2025 (quadrillion Btu)



Primary Energy Consumption in the Emerging Economies by Fuel Type, 1970-2025 (quadrillion Btu)

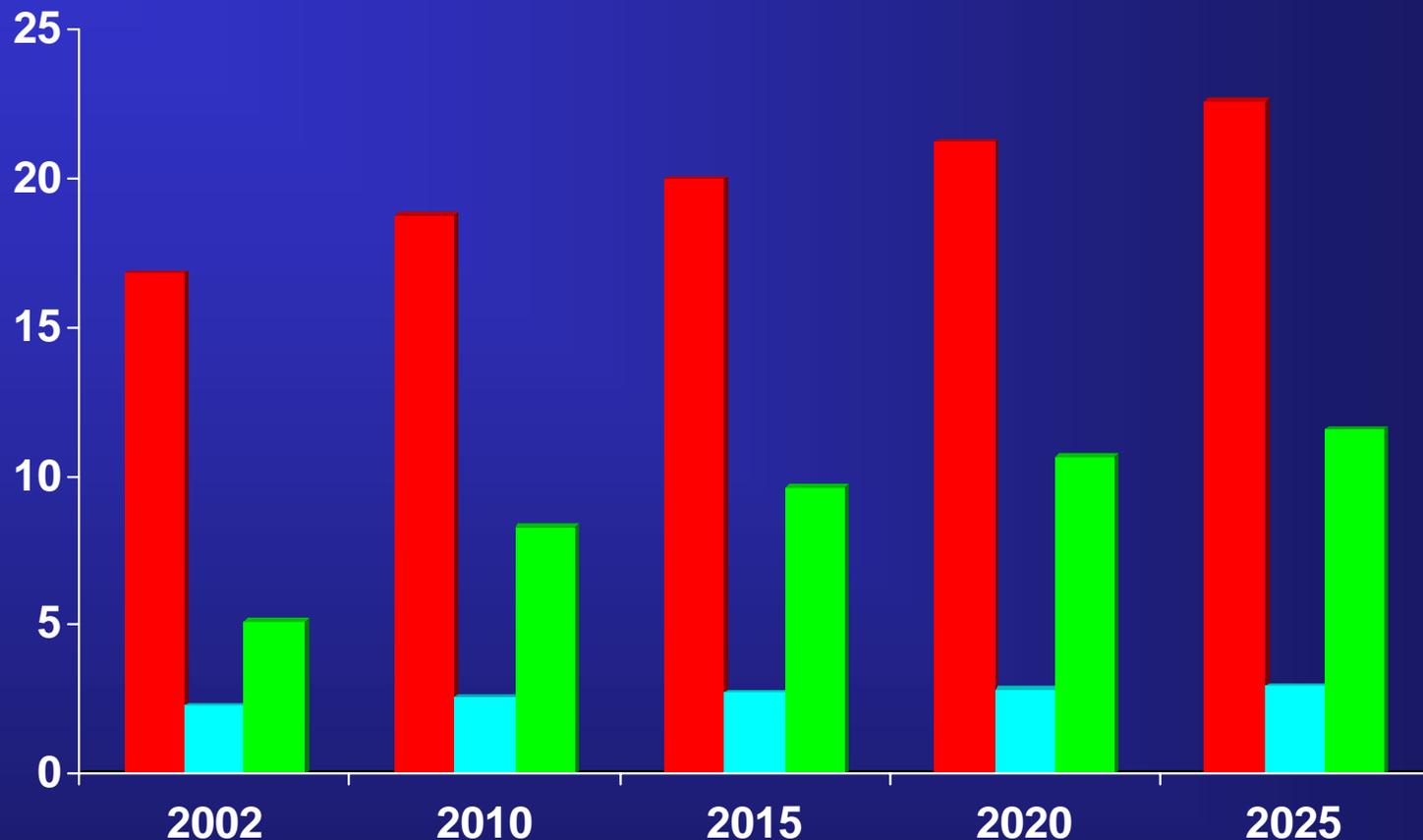


Residential Sector Energy Use by Region, 2002-2025 (quadrillion Btu)



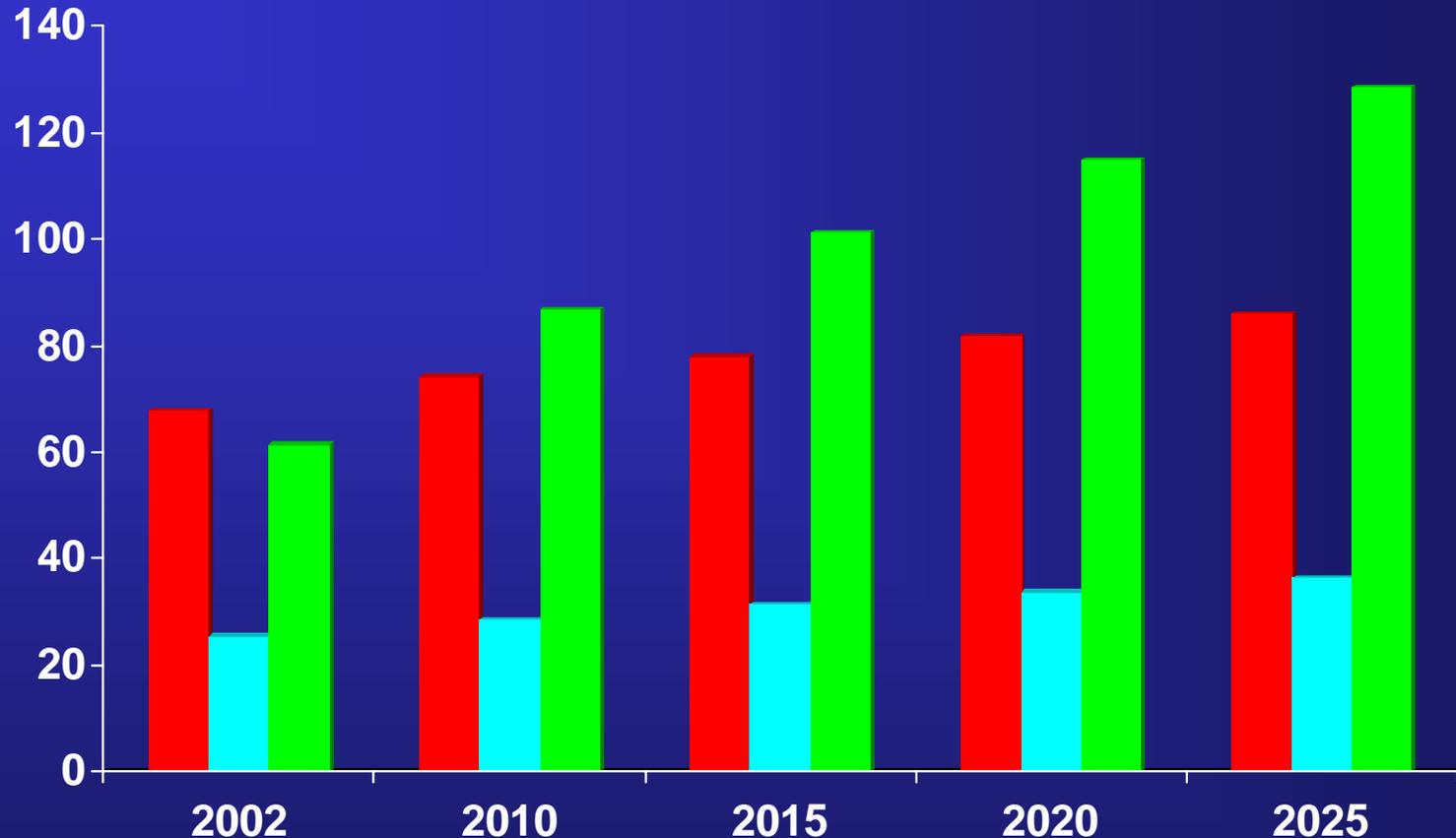
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Commercial Sector Energy Use by Region, 2002-2025 (quadrillion Btu)



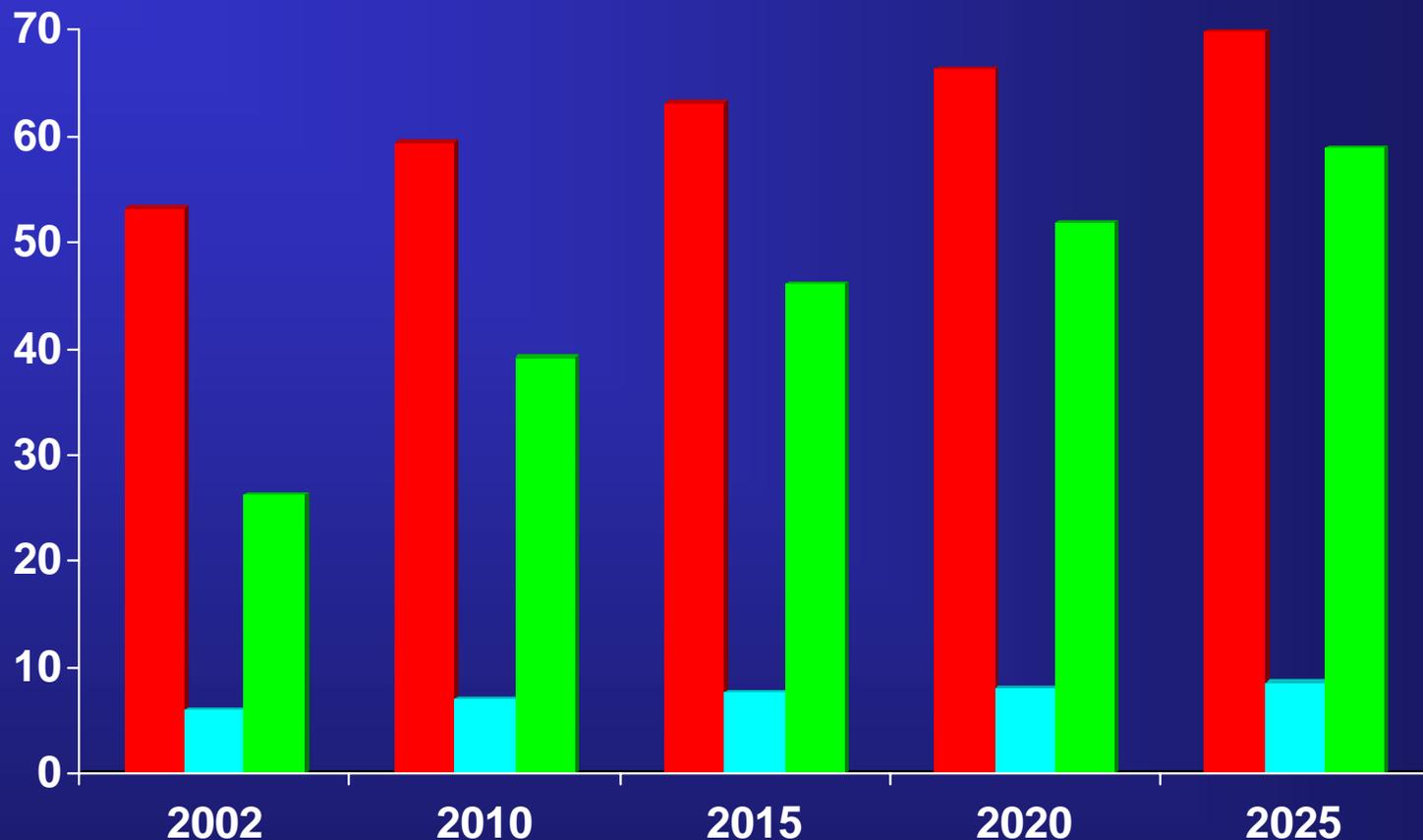
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Industrial Sector Energy Use by Region, 2002-2025 (quadrillion Btu)



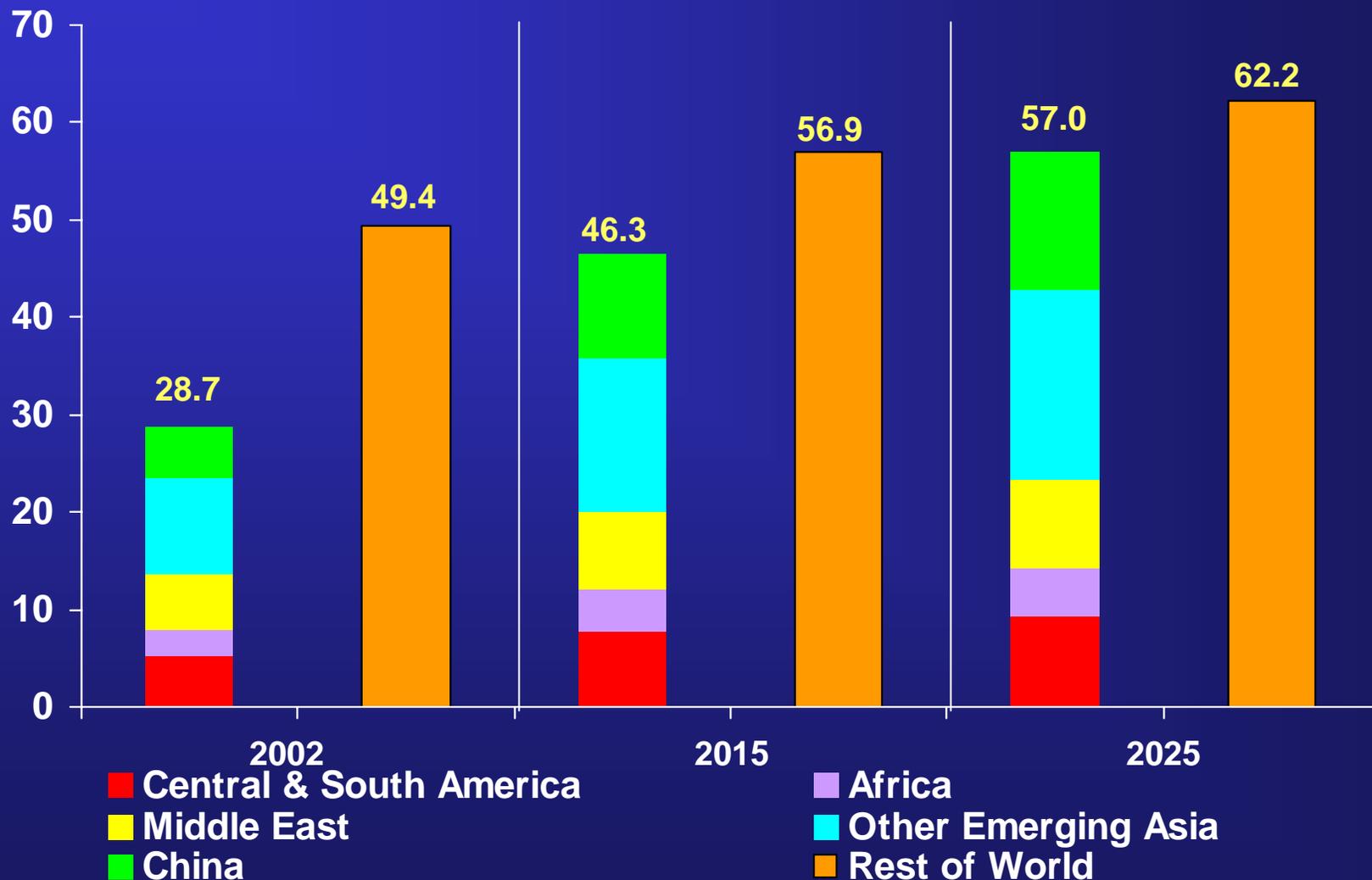
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Transportation Sector Energy Use by Region, 2002-2025 (quadrillion Btu)

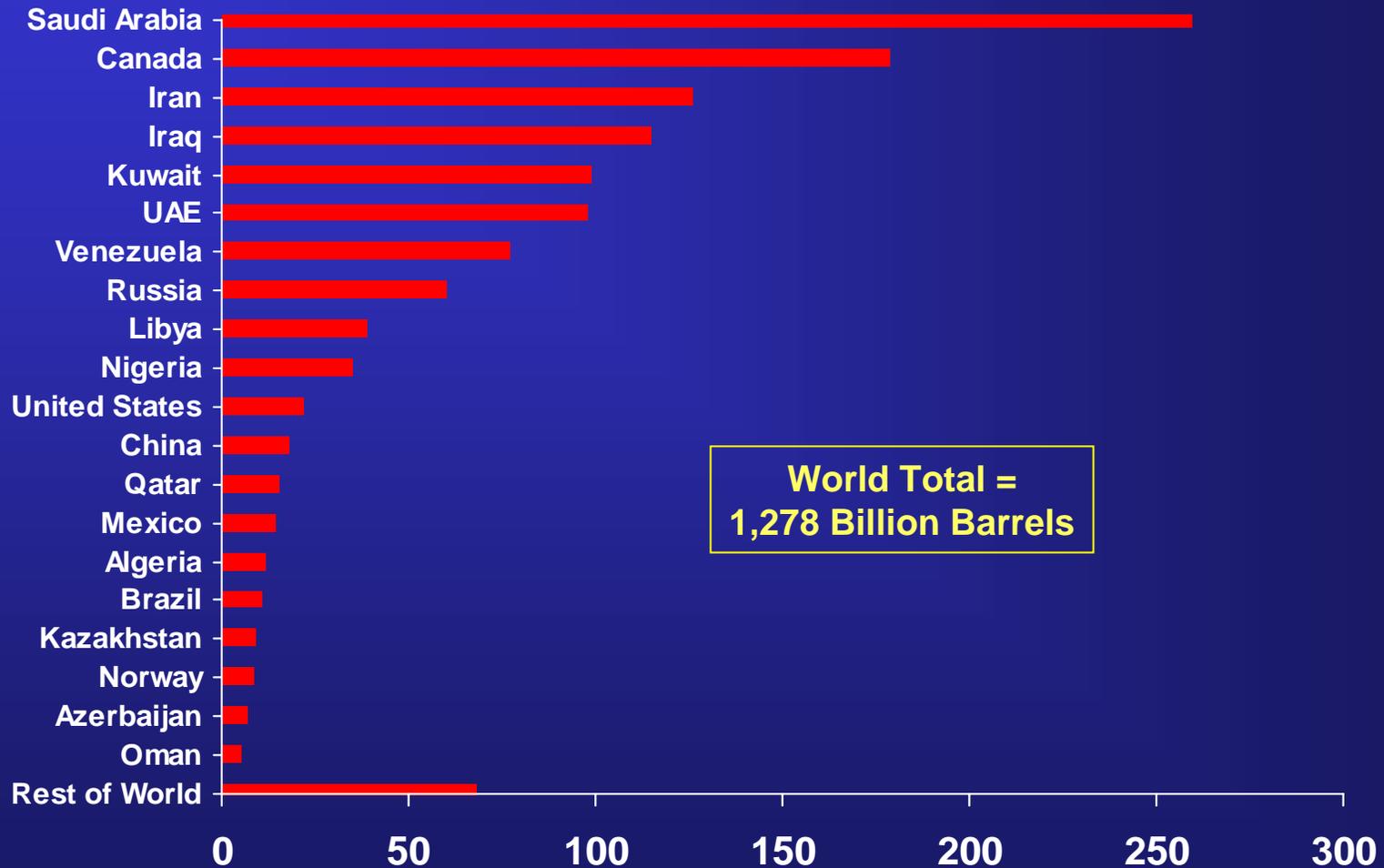


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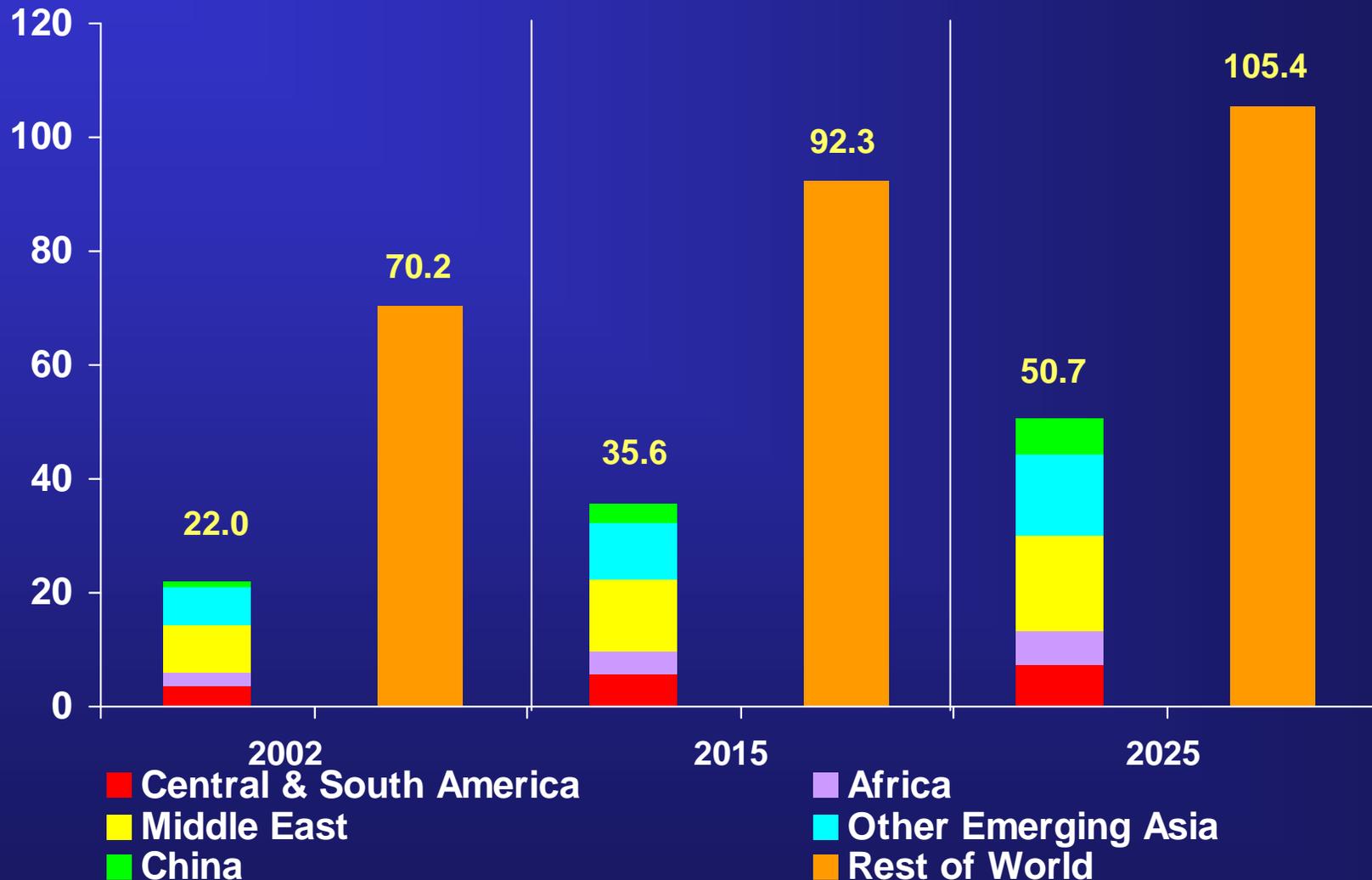
World Oil Consumption by Region, 2002, 2015, and 2025 (million barrels per day)



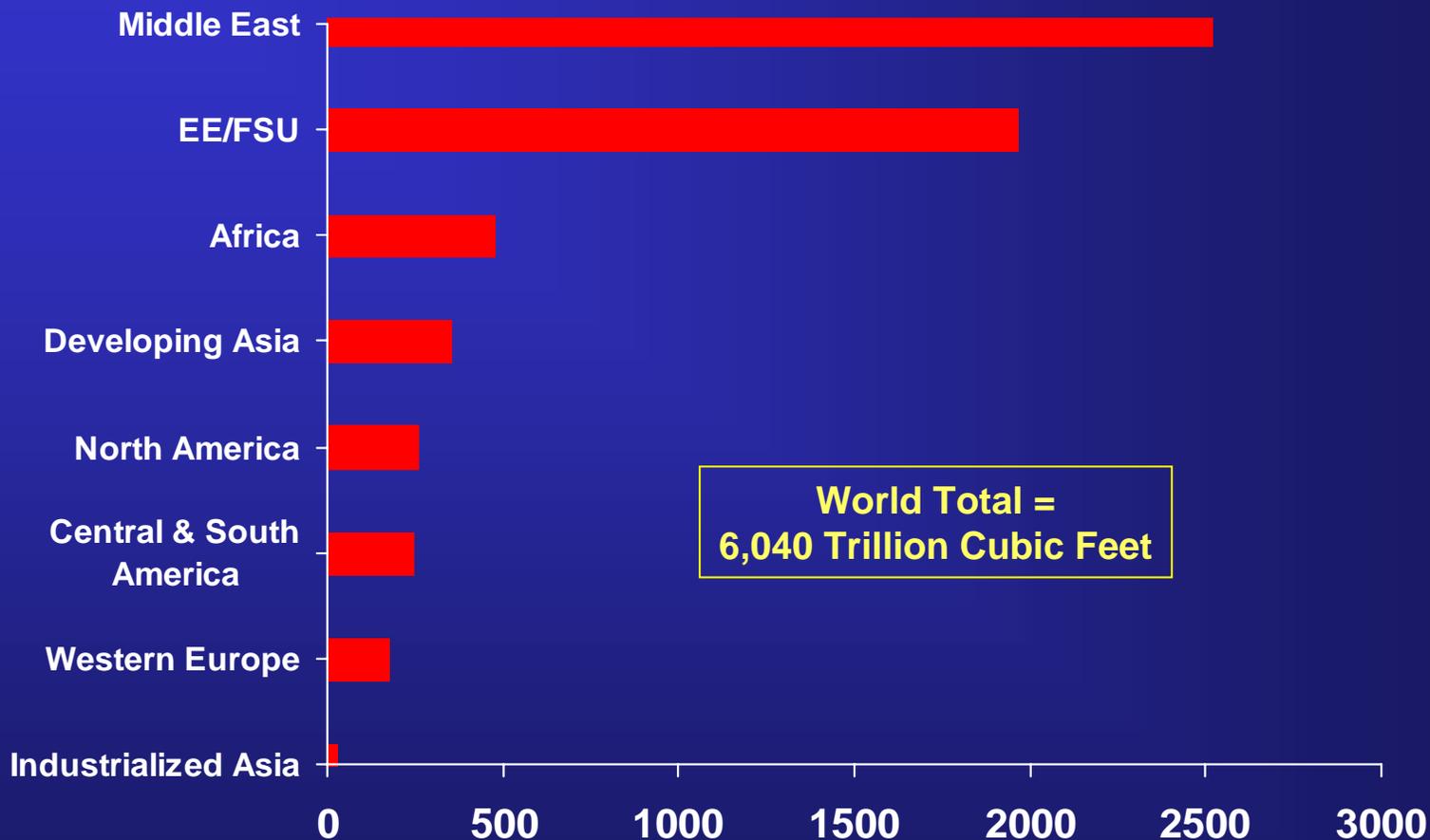
World Oil Reserves by Country, as of January 1, 2005 (billion barrels)



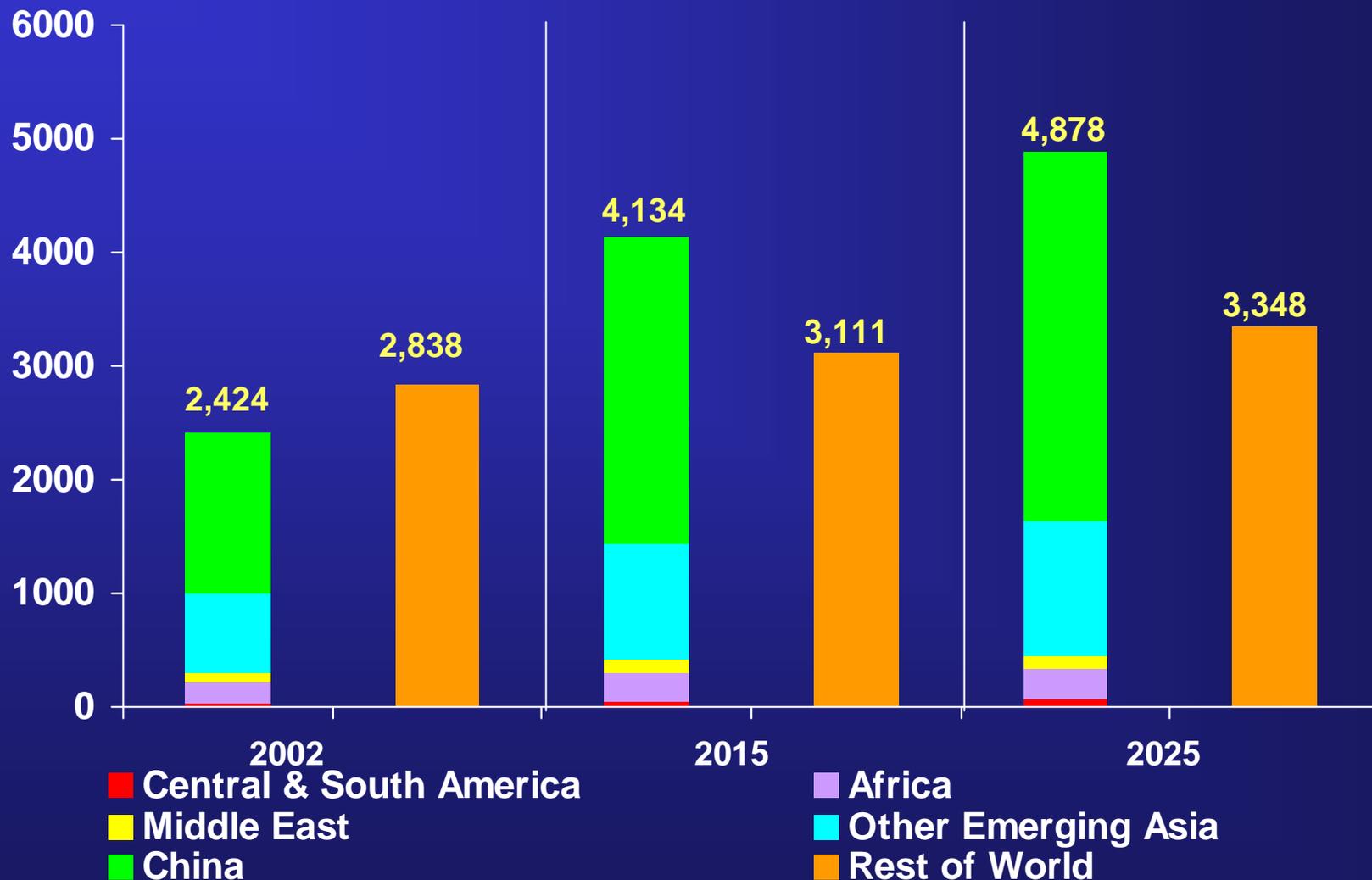
Natural Gas Consumption by Region, 2002, 2015, and 2025 (trillion cubic feet)



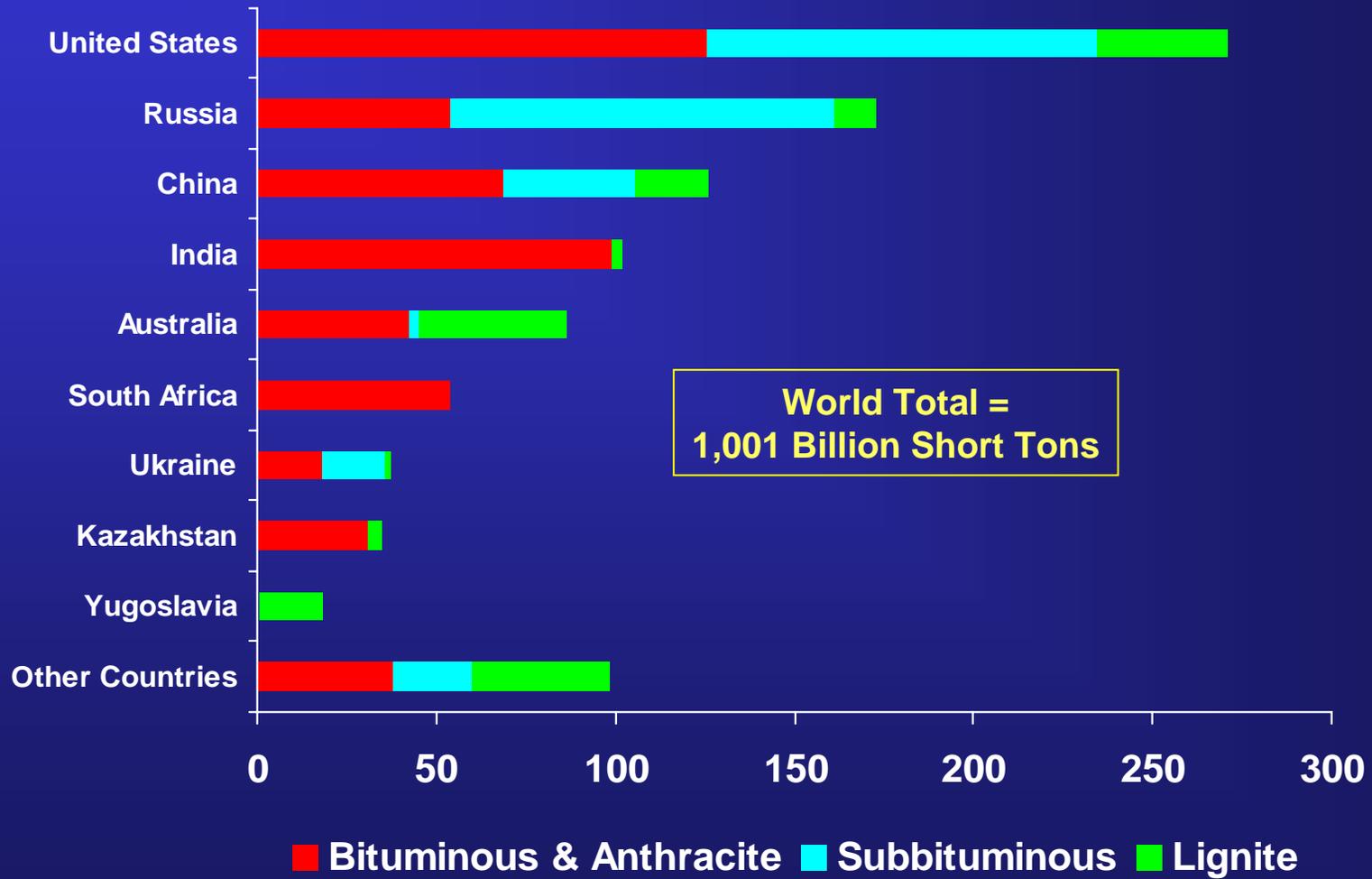
World Natural Gas Reserves by Region, as of January 1, 2005 (trillion cubic feet)



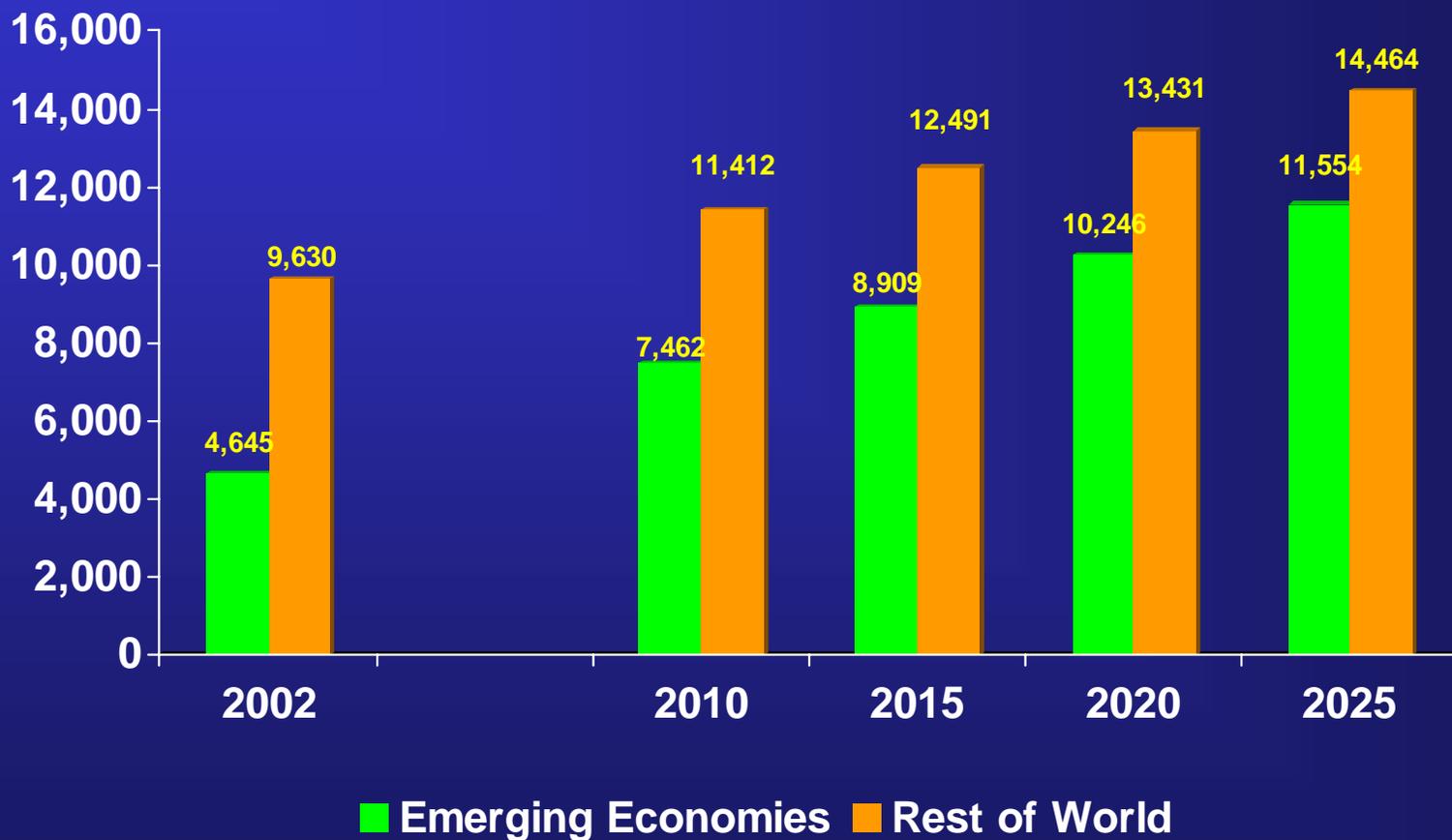
Coal Consumption by Region, 2002, 2015, and 2025 (million short tons)



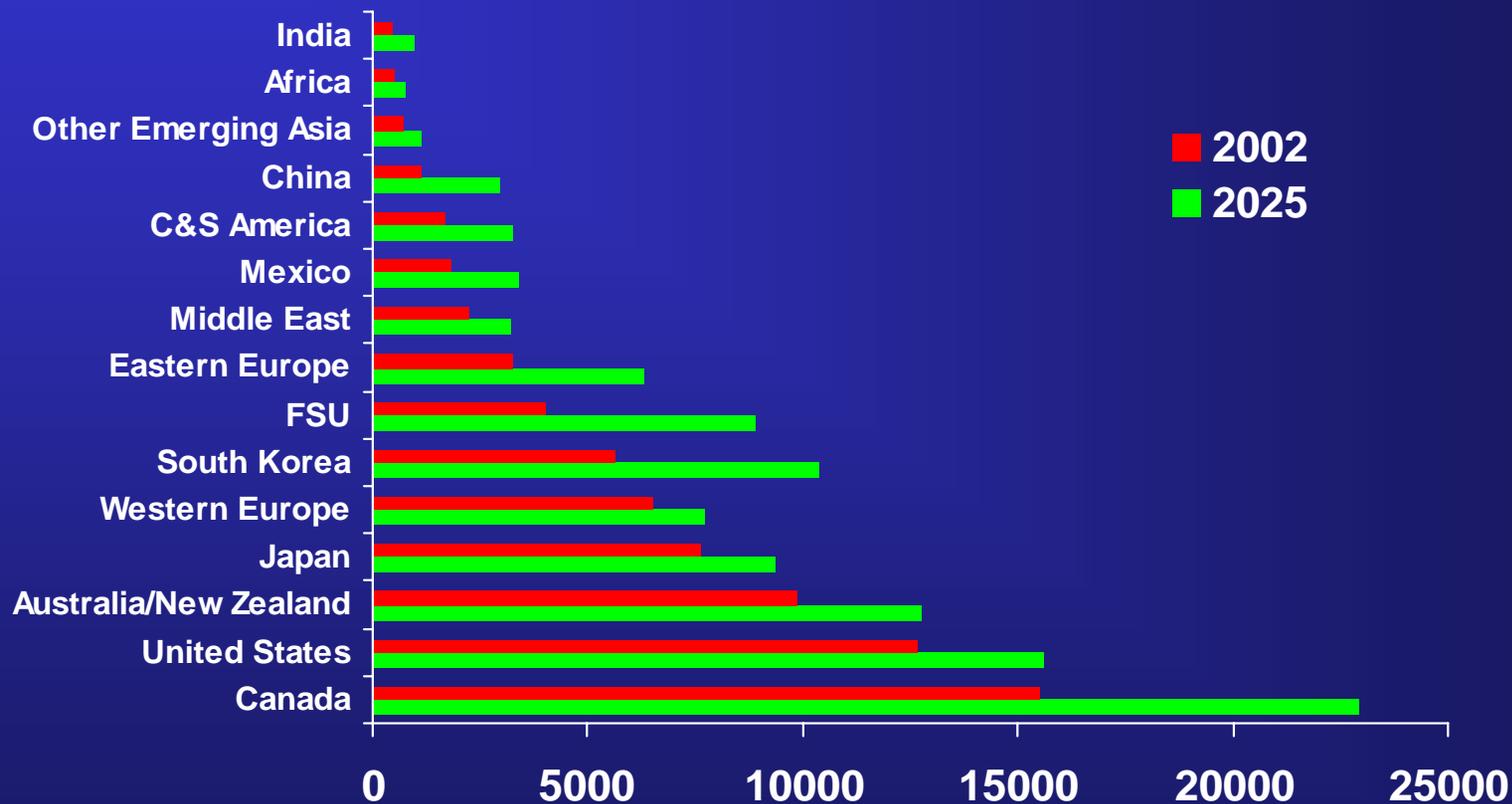
World Recoverable Coal Reserves as of January 1, 2003 (billion short tons)



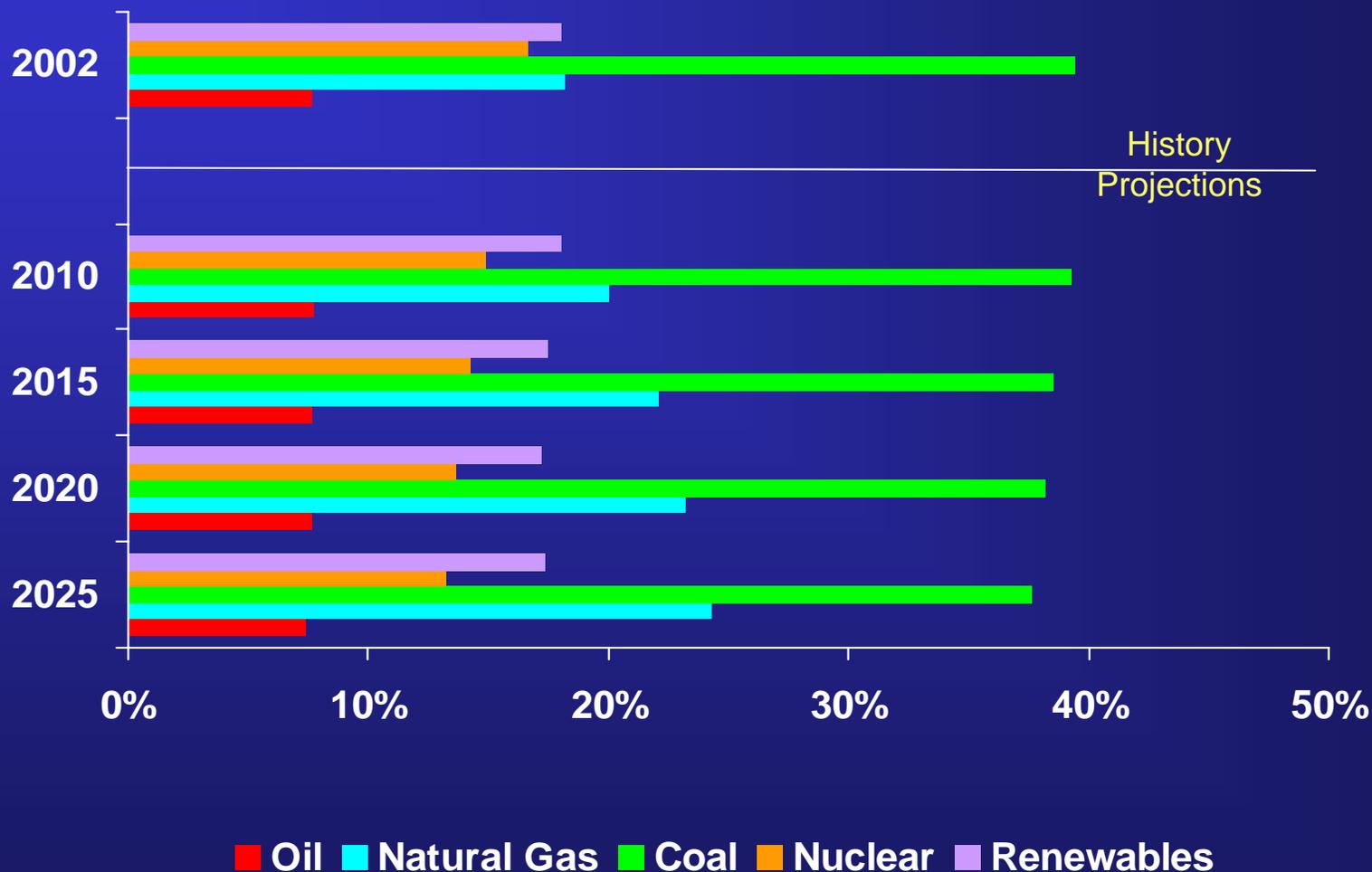
World Net Electricity Consumption by Region, 2002-2025 (billion kilowatthours)



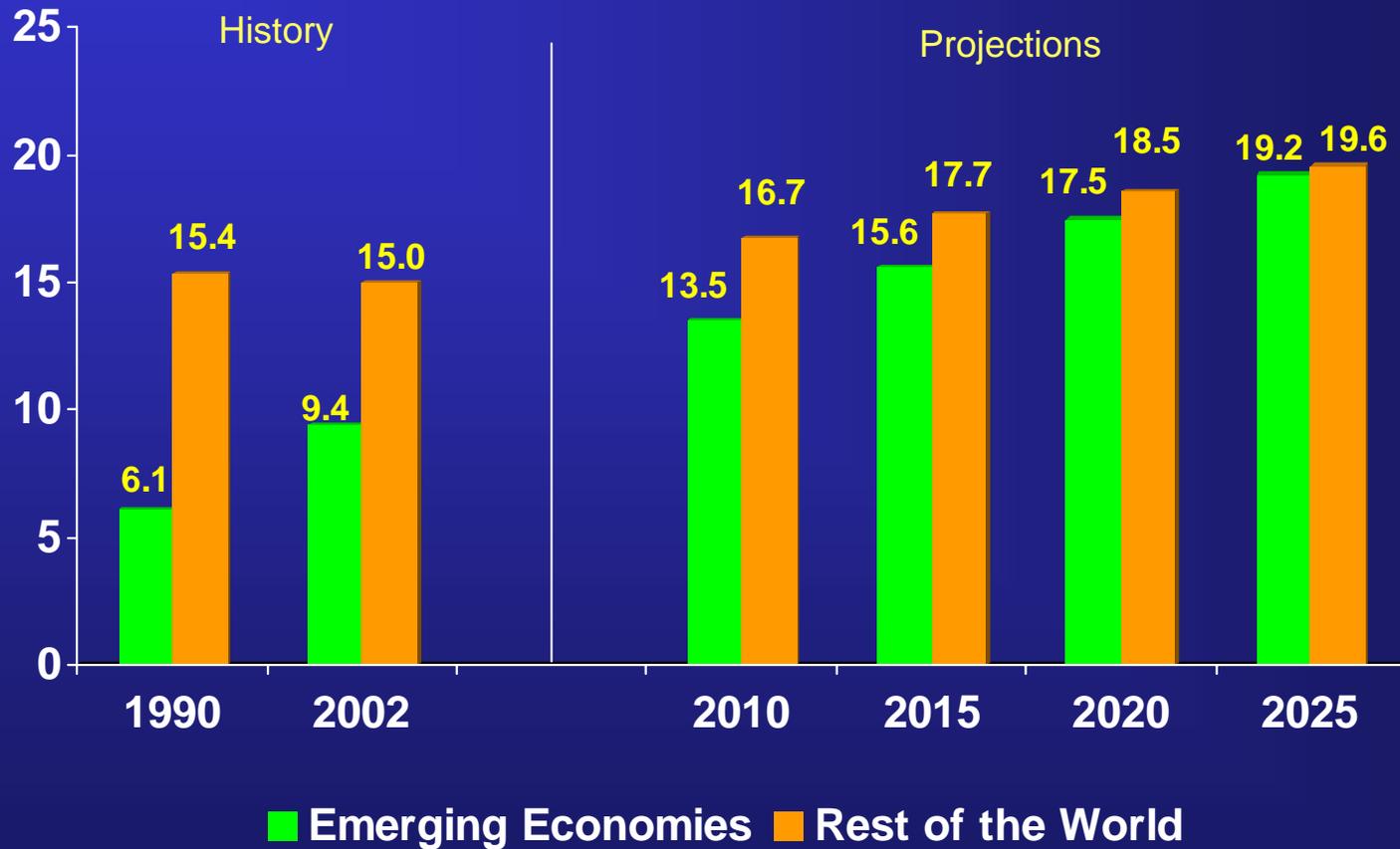
Electricity Consumption per Capita by Country Group, 2002 and 2025 (kilowatthours per person per year)



Shares of Energy Use for Electricity Generation, 2002-2025 (percent)



World Energy-Related Carbon Dioxide Emissions by Region, 1990-2025 (billion metric tons)



Key issues for energy and the developing world...

- Extensive investment will be required to expand the energy infrastructure
- Markets will be created for new technologies
- Geopolitical implications
- Environmental issues
- New opportunities for trade