

LONG-TERM OUTLOOK FOR ENERGY MARKETS

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Energy Information Administration**

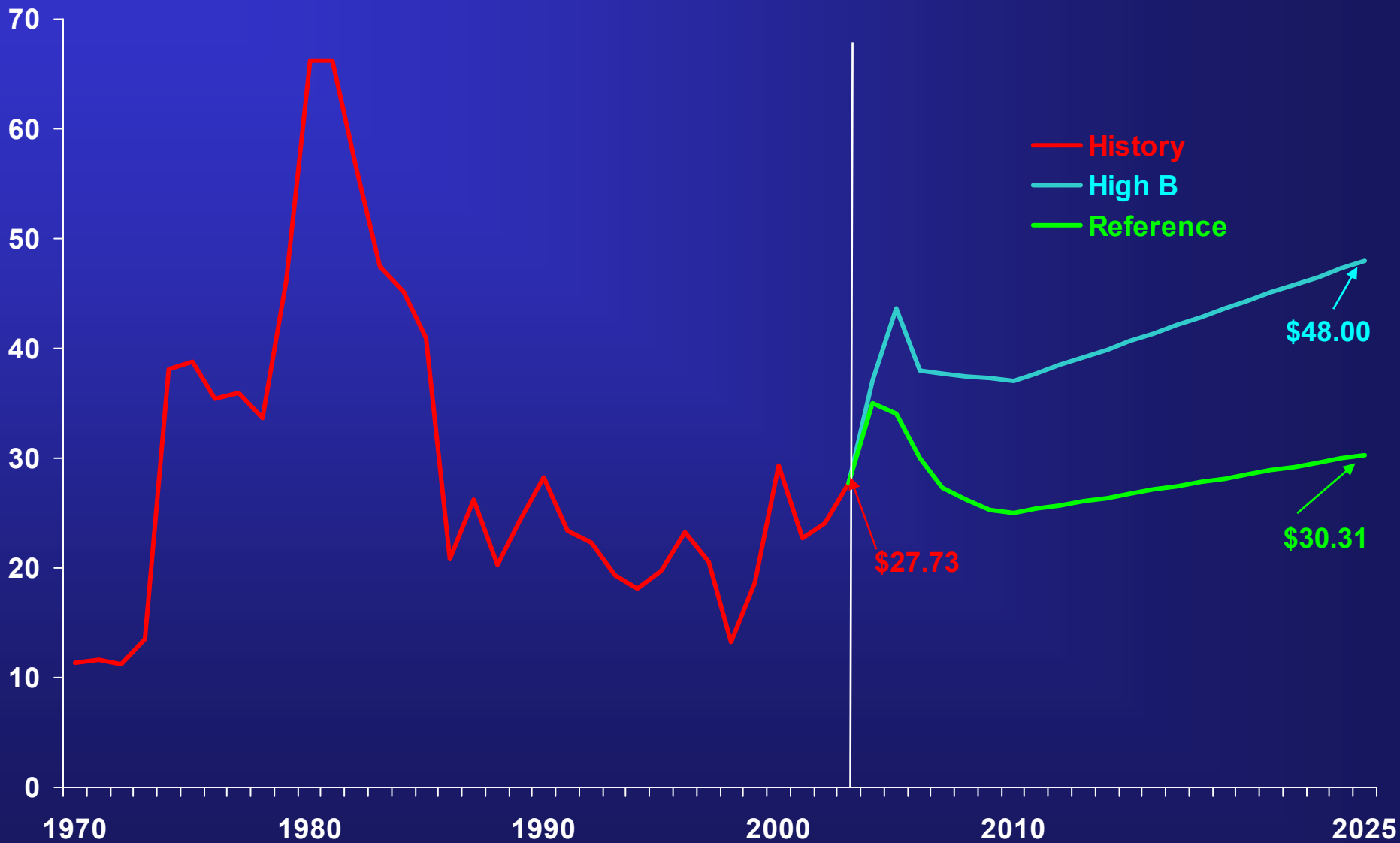
Black & Veatch Forum

**November 28, 2005
Washington, DC**

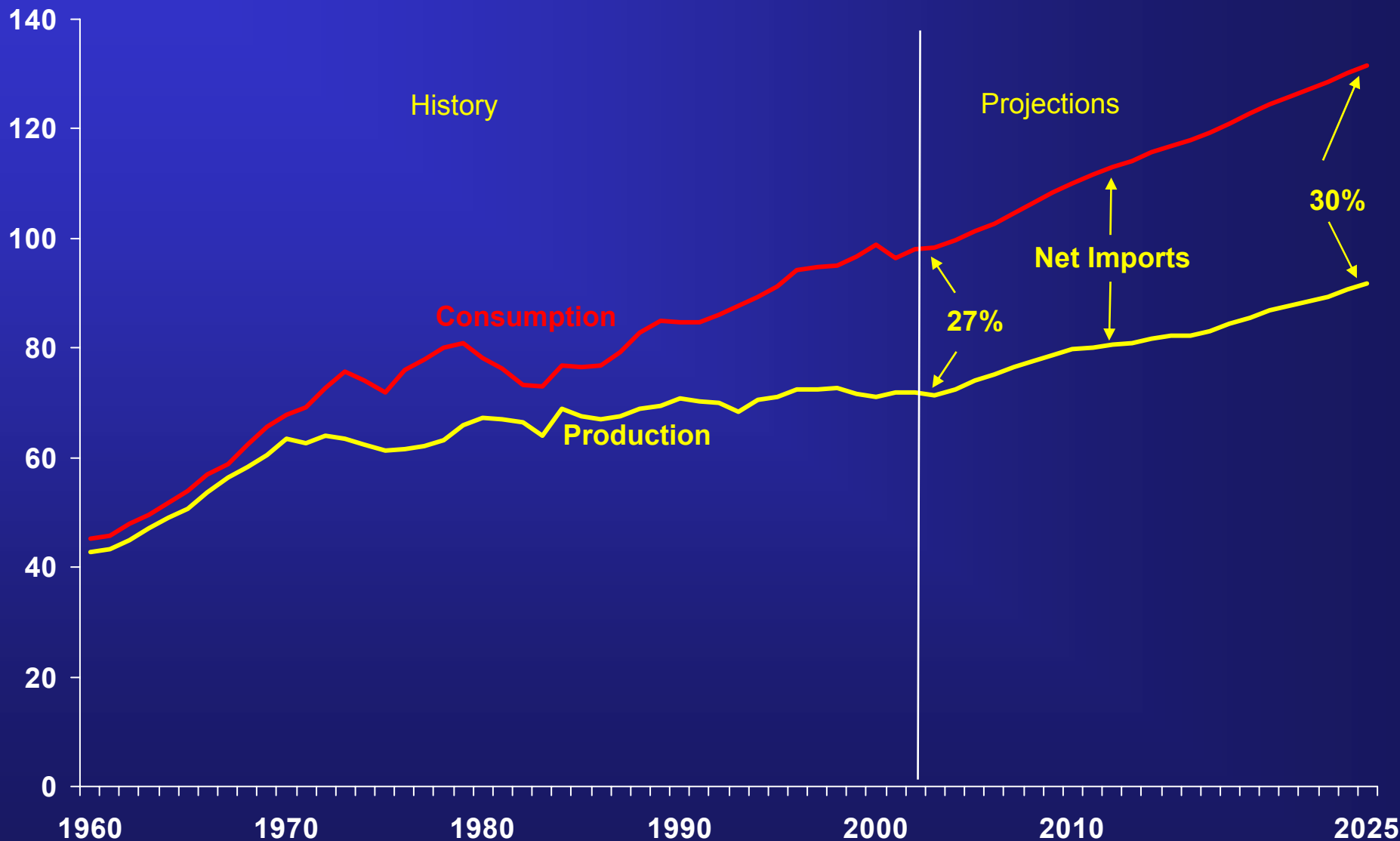
***Annual Energy Outlook 2005* indicates that over the next two decades....**

- U.S. energy demand will grow at an average annual rate of 1.3 percent, using the scenario with the highest assumed world oil prices
- The energy efficiency of the economy will increase at an average annual rate of 1.7 percent
- Future growth in U.S. natural gas supplies will depend on unconventional domestic production, natural gas from Alaska, and liquefied natural gas imports
- U.S. oil import dependency will grow from 56 percent to 58 percent
- The real price of electricity will drop from 7.4 cents to a low of 6.7 cents in 2011 before reaching 7.4 cents per kilowatthour again in 2025
- Carbon dioxide emissions from energy use will increase at an average annual rate of 1.5 percent

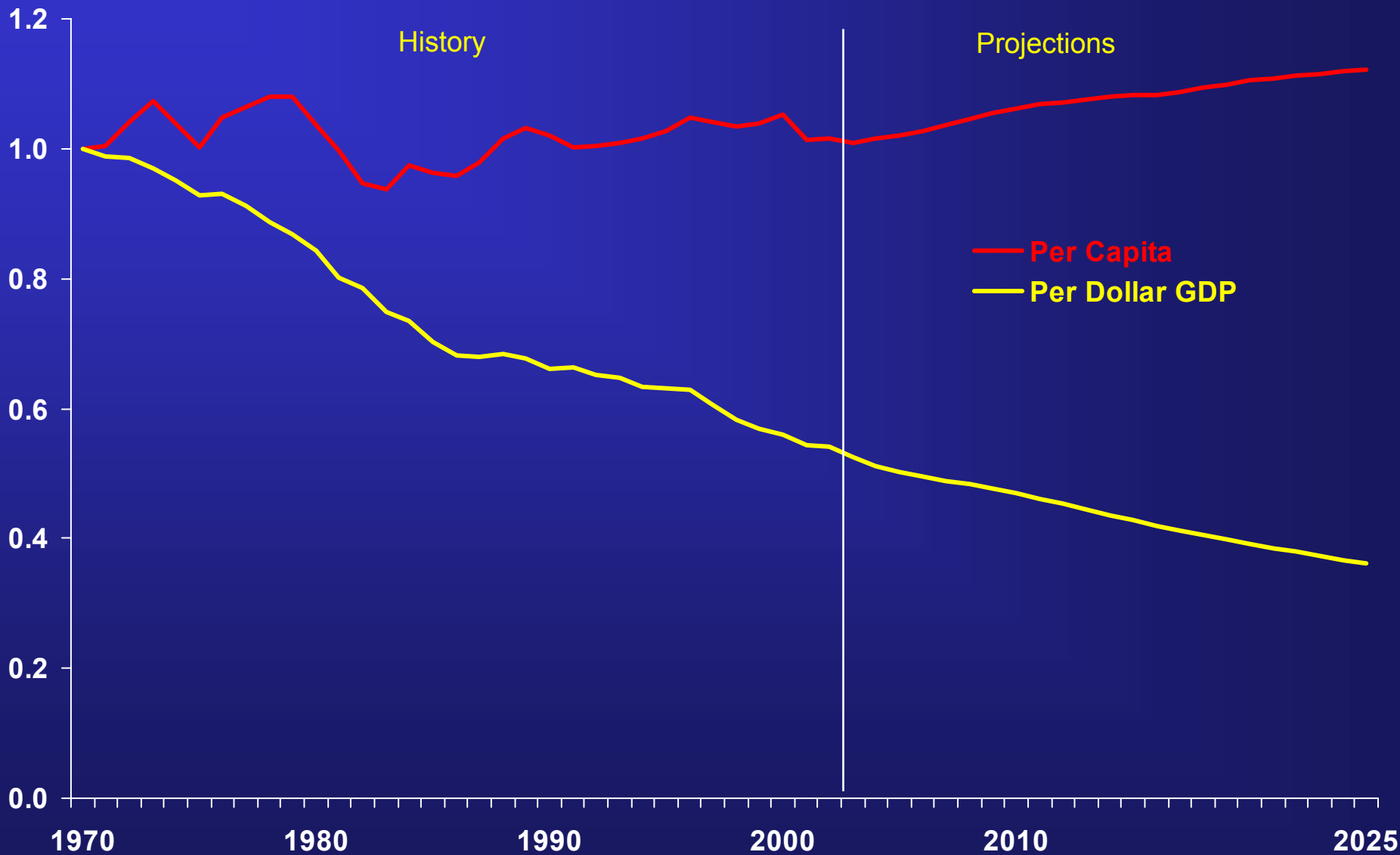
World Oil Price, 1970-2025 (2003 dollars per barrel)



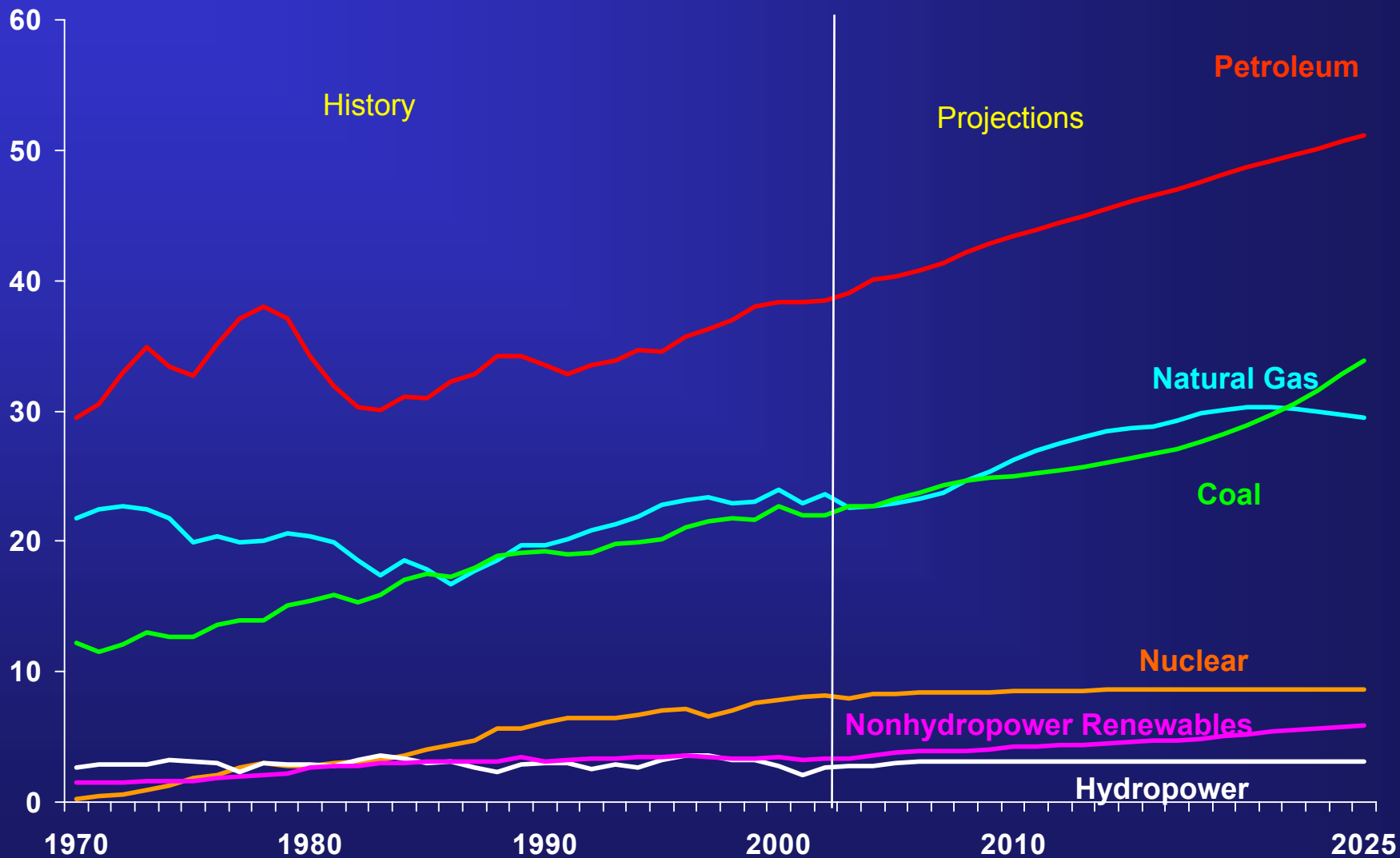
U.S. Energy Production, Consumption, and Net Imports, 1960-2025 (quadrillion Btu)



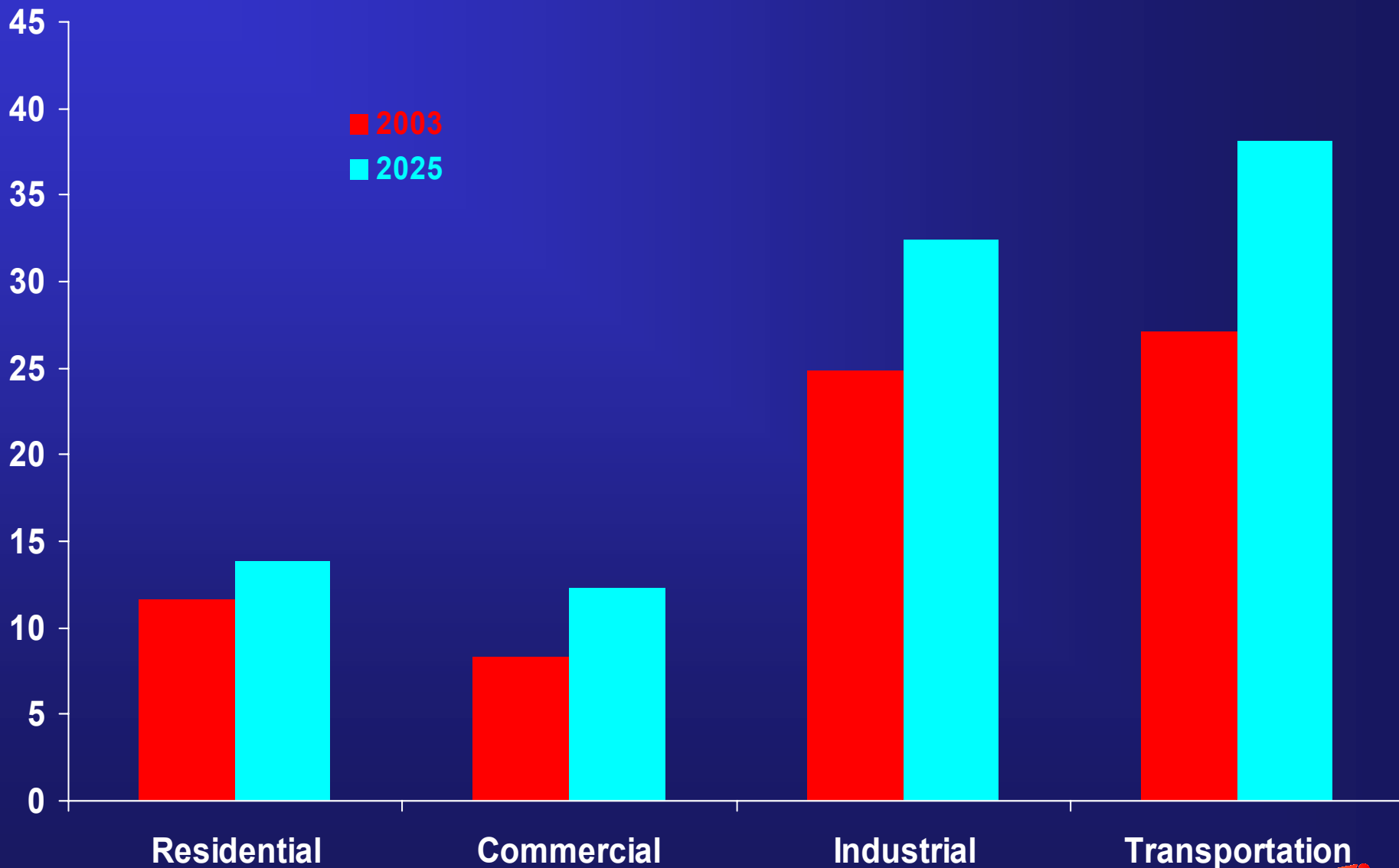
U.S. Energy Use per Capita and per Dollar of Gross Domestic Product, 1970-2025 (index, 1970 = 1)



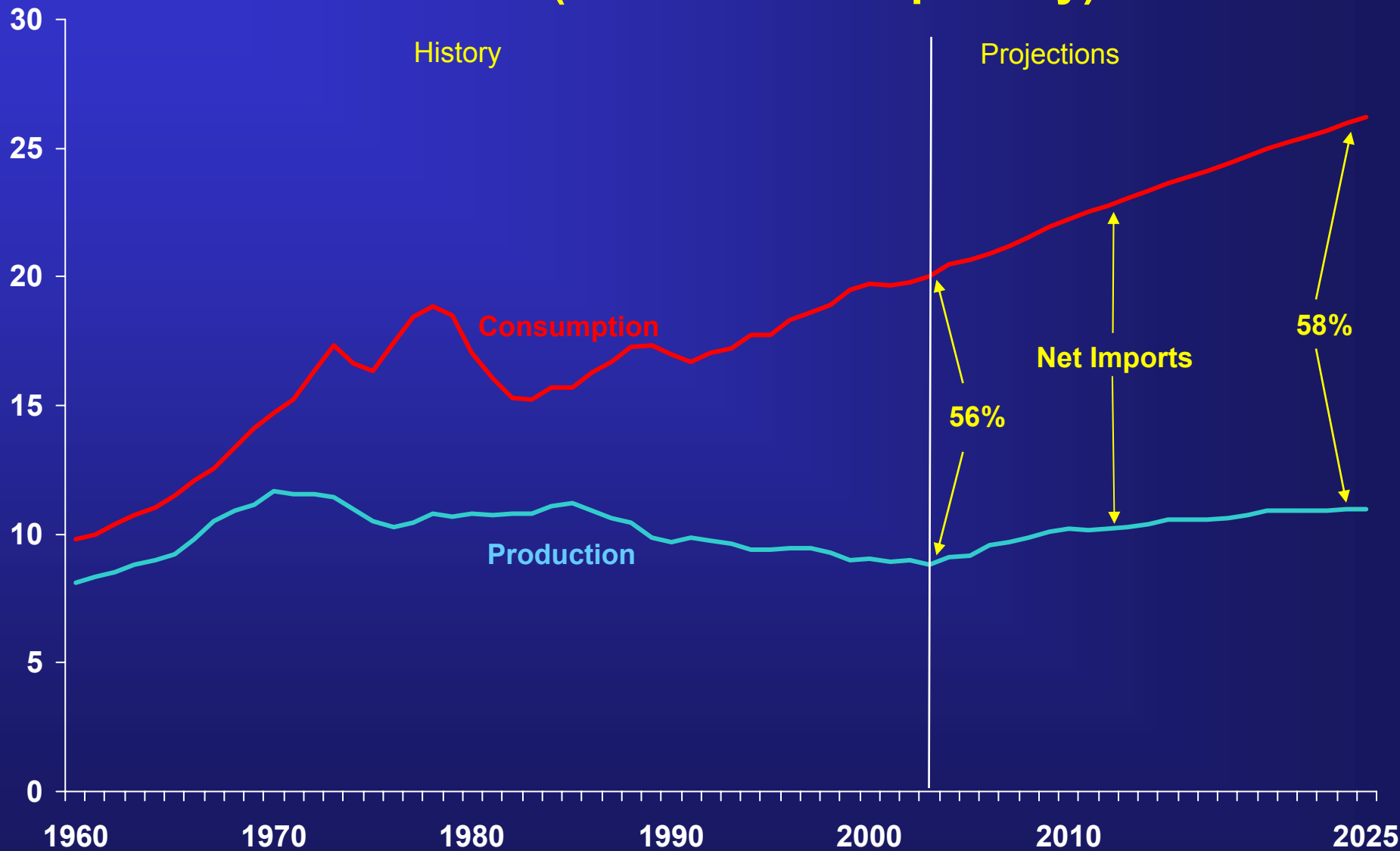
U.S. Energy Consumption by Fuel, 1970-2025 (quadrillion Btu)



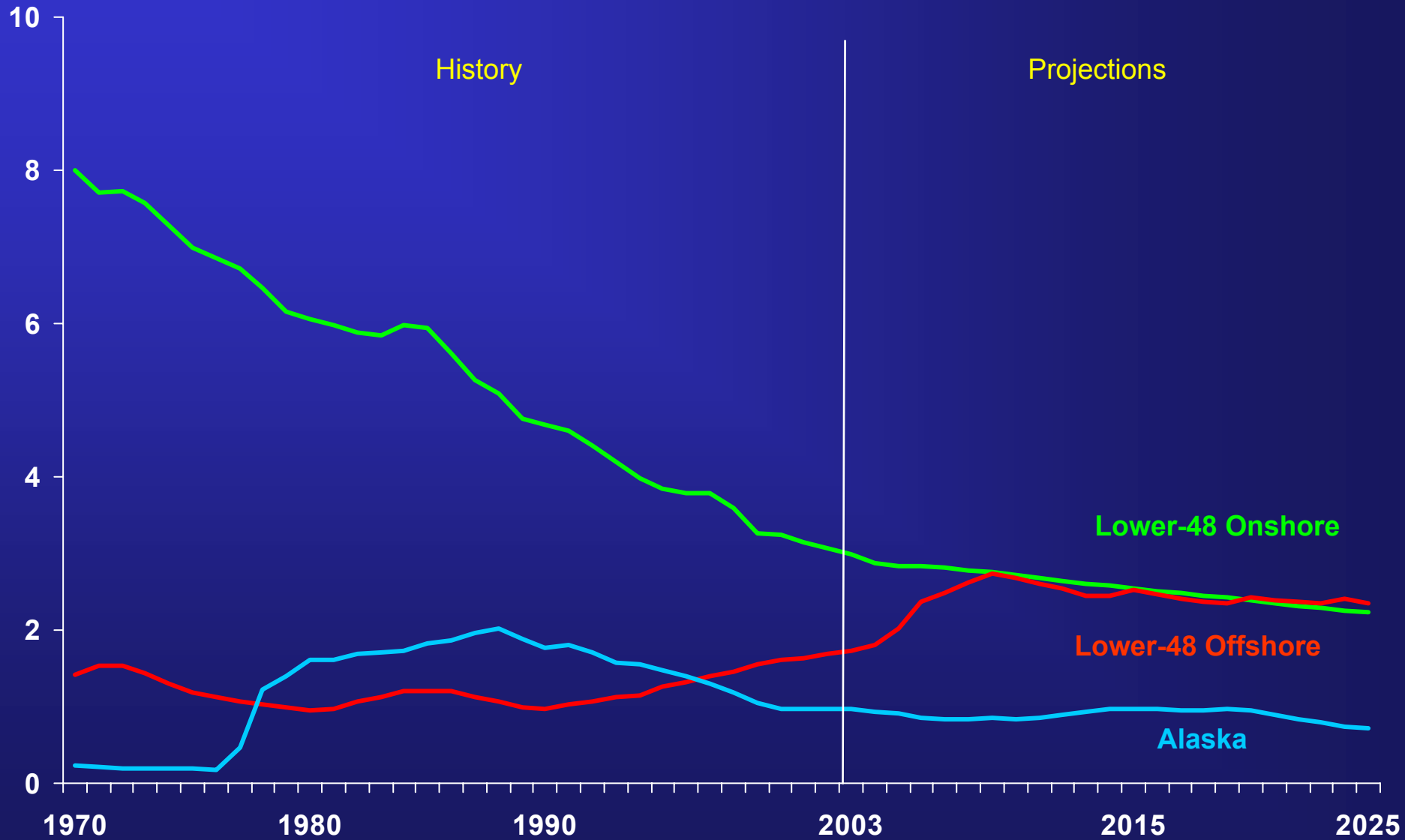
U.S. Delivered Energy Consumption by Sector, 2003 and 2025 (quadrillion Btu)



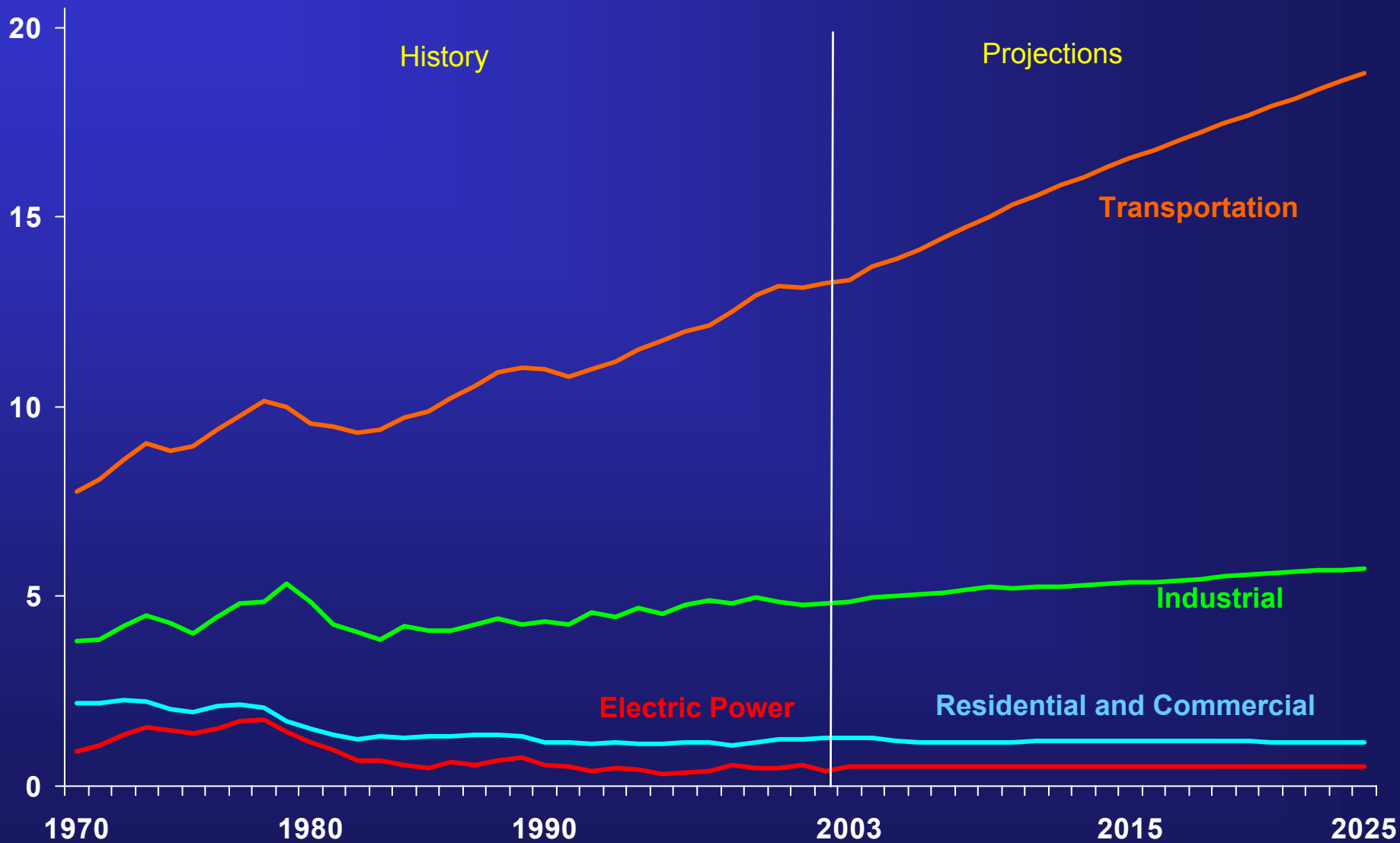
U.S. Petroleum Production, Consumption, and Net Imports, 1960-2025 (million barrels per day)



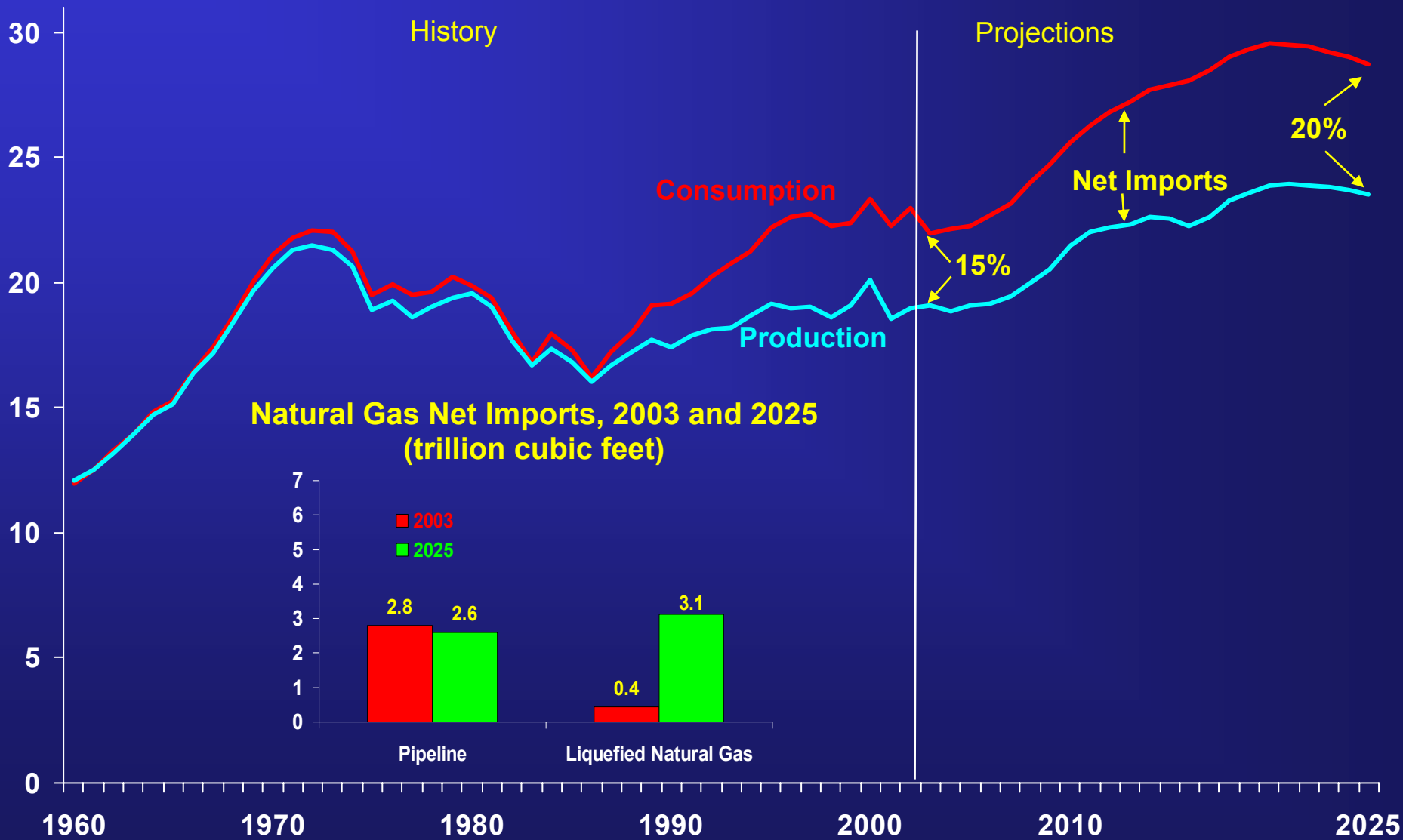
U.S. Crude Oil Production, 1970-2025 (million barrels per day)



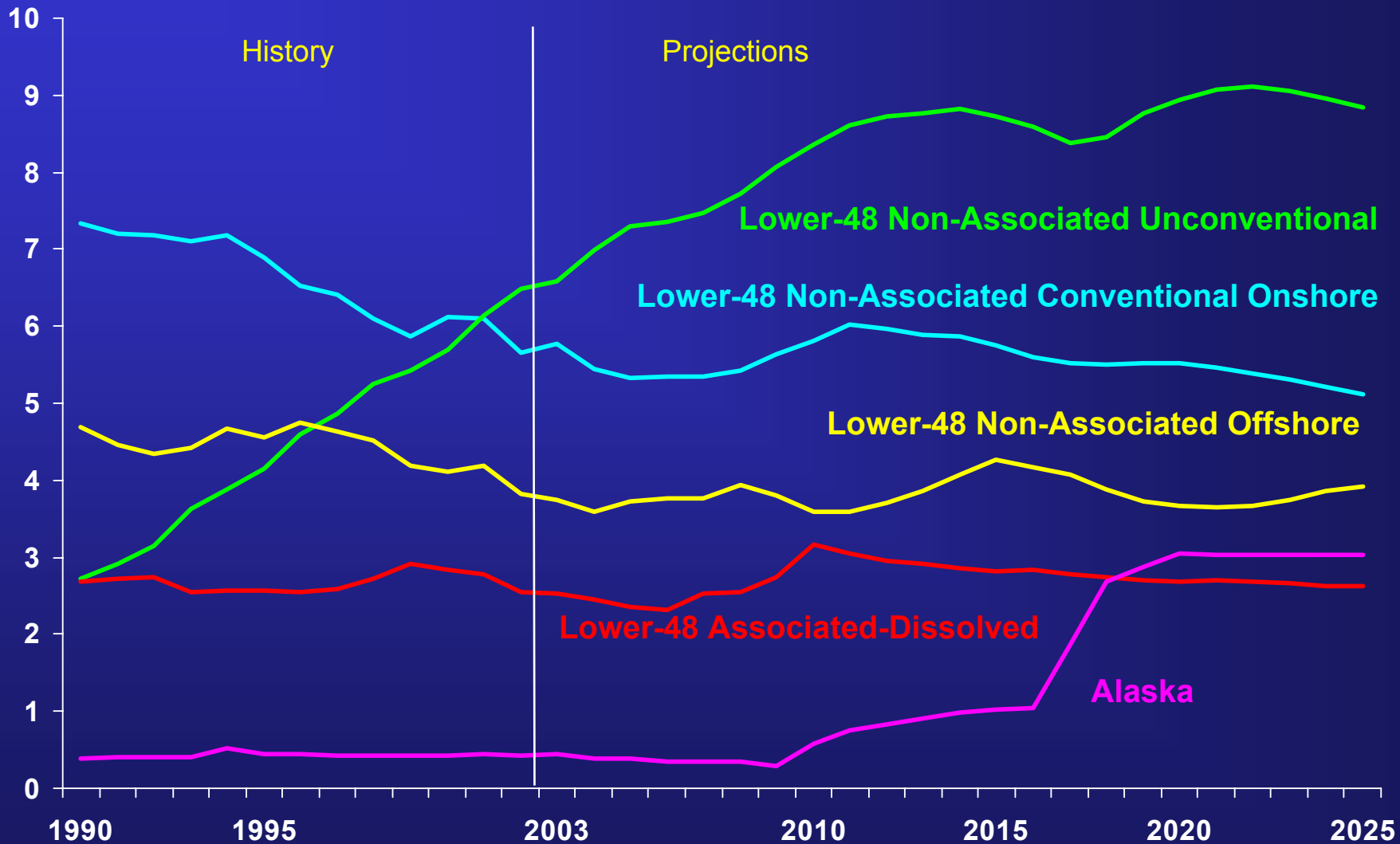
U.S. Petroleum Consumption by Sector, 1970-2025 (million barrels per day)



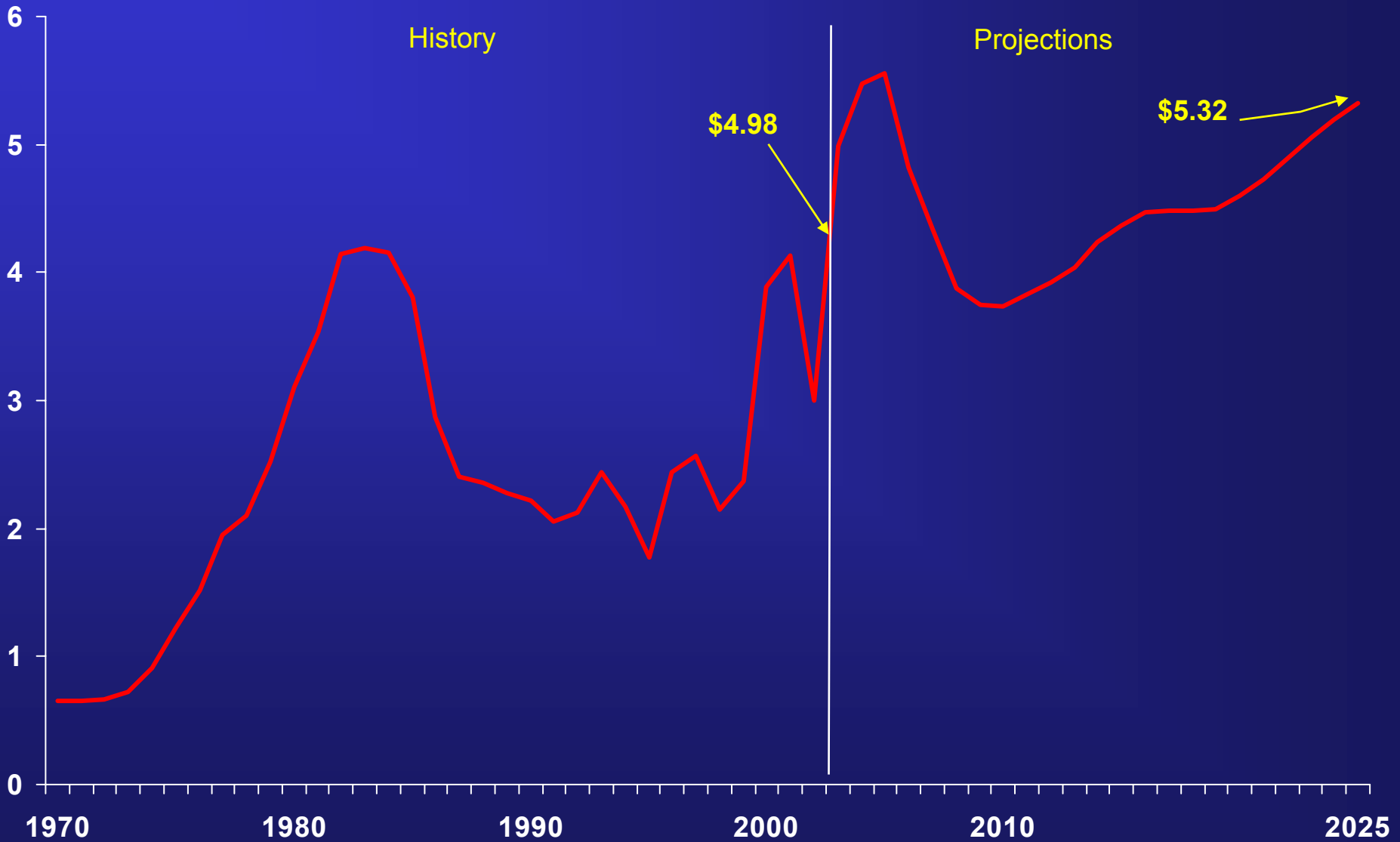
U.S. Natural Gas Production, Consumption, and Net Imports, 1960-2025 (trillion cubic feet)



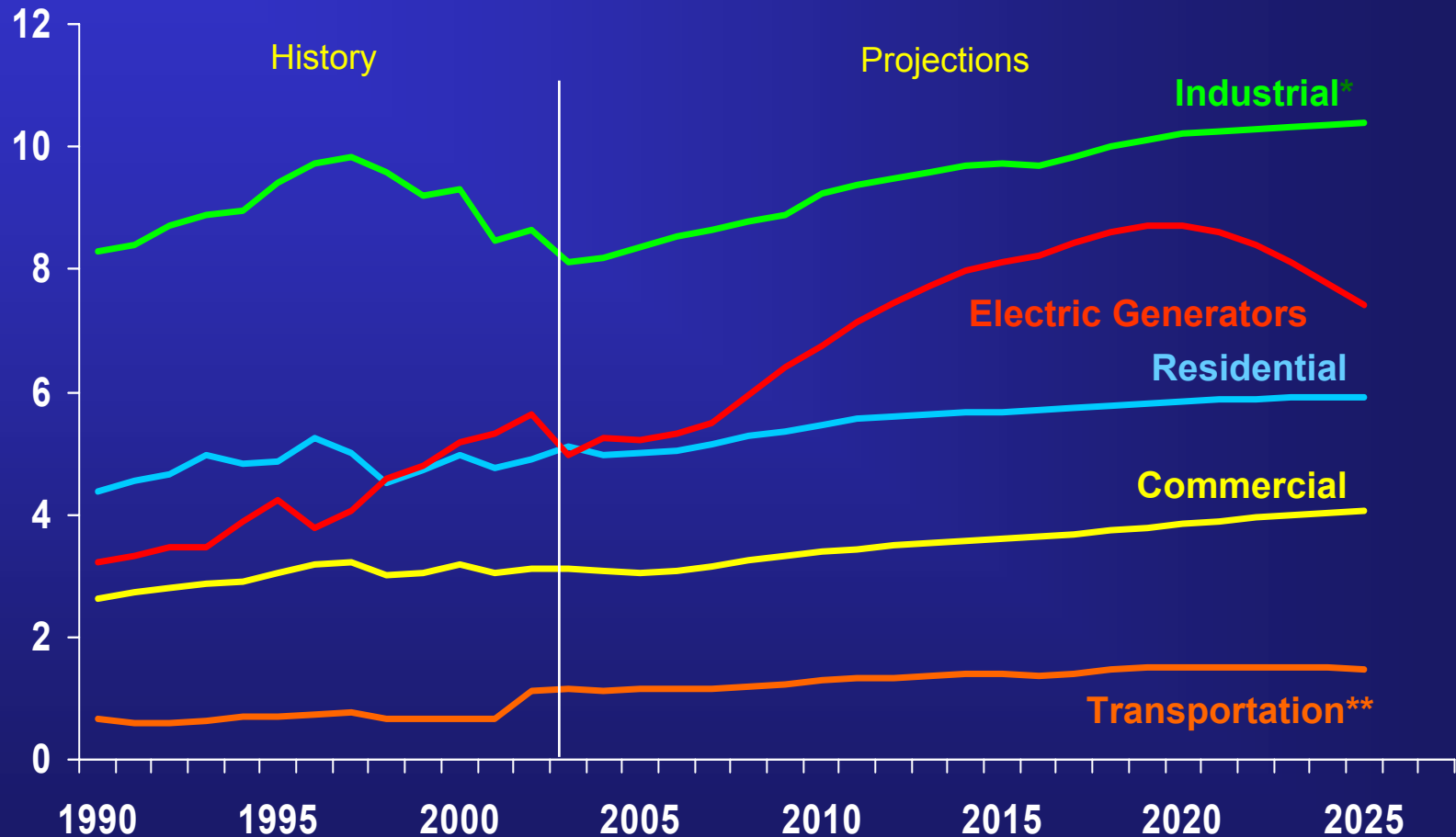
U.S. Natural Gas Production, 1990 - 2025 (trillion cubic feet)



U.S. Natural Gas Wellhead Price, 1970-2025 (2003 dollars per thousand cubic feet)



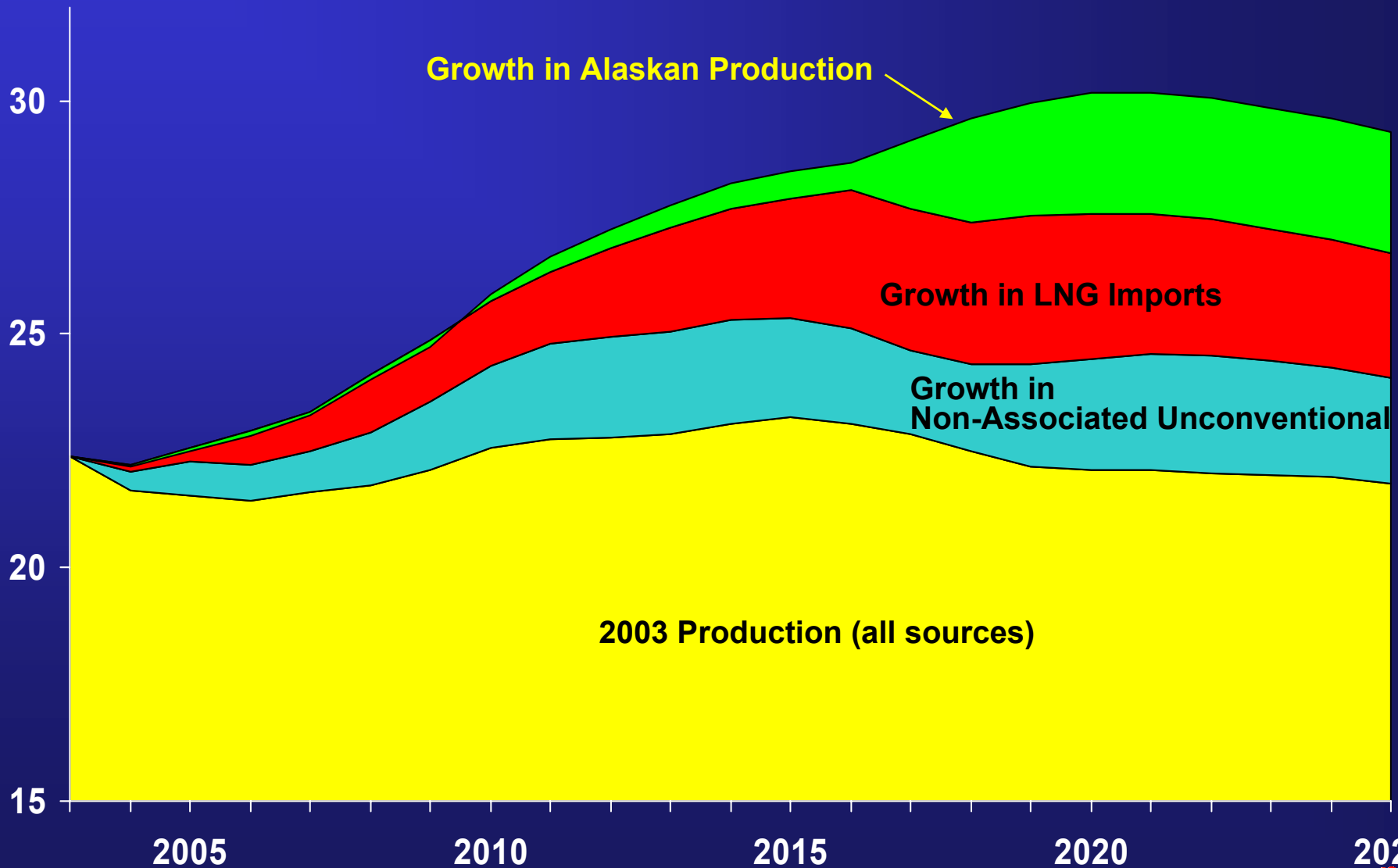
U.S. Natural Gas Consumption by Sector, 1990-2025 (trillion cubic feet)



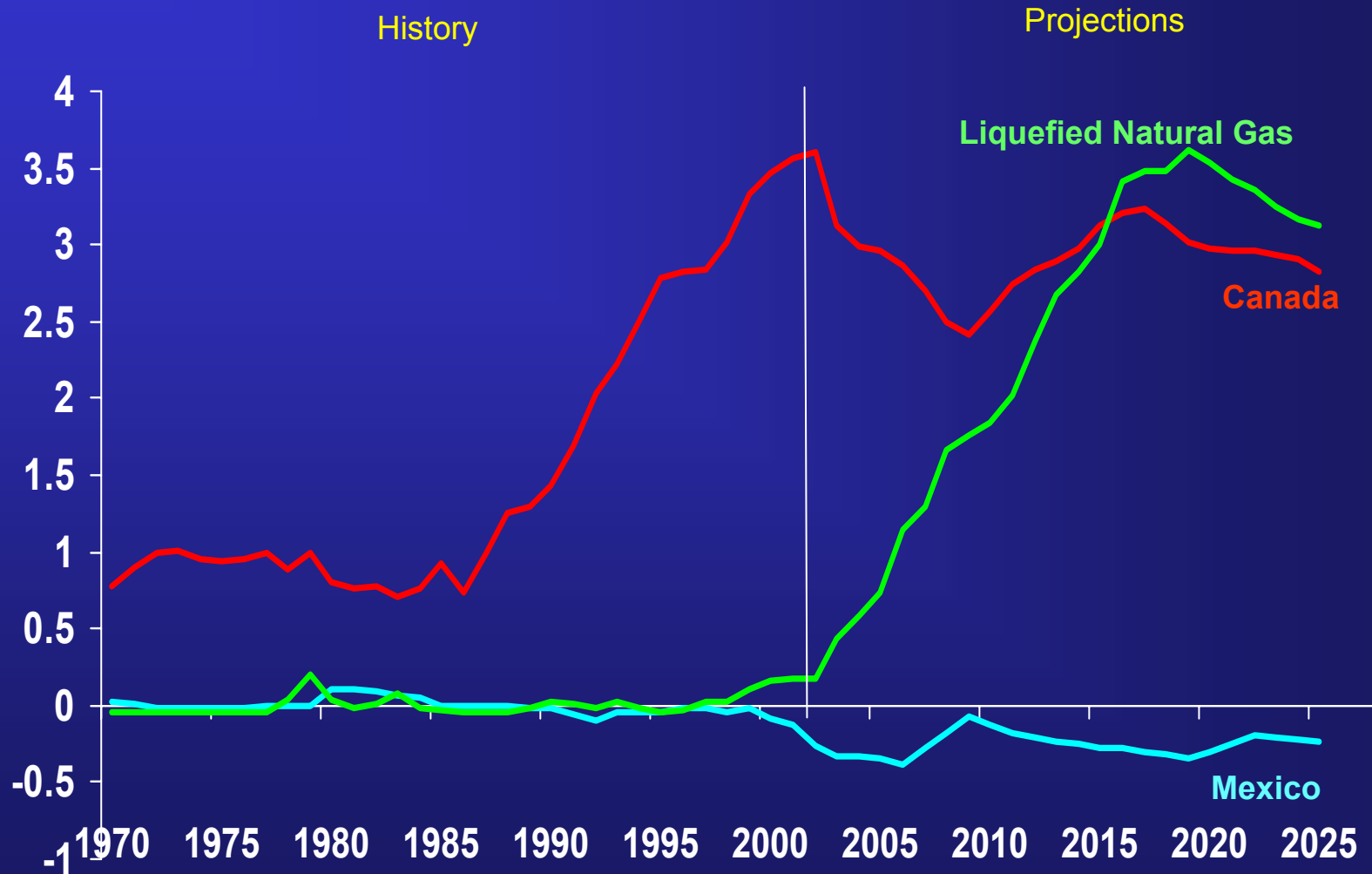
* Includes lease and plant fuel

** Includes pipeline fuel

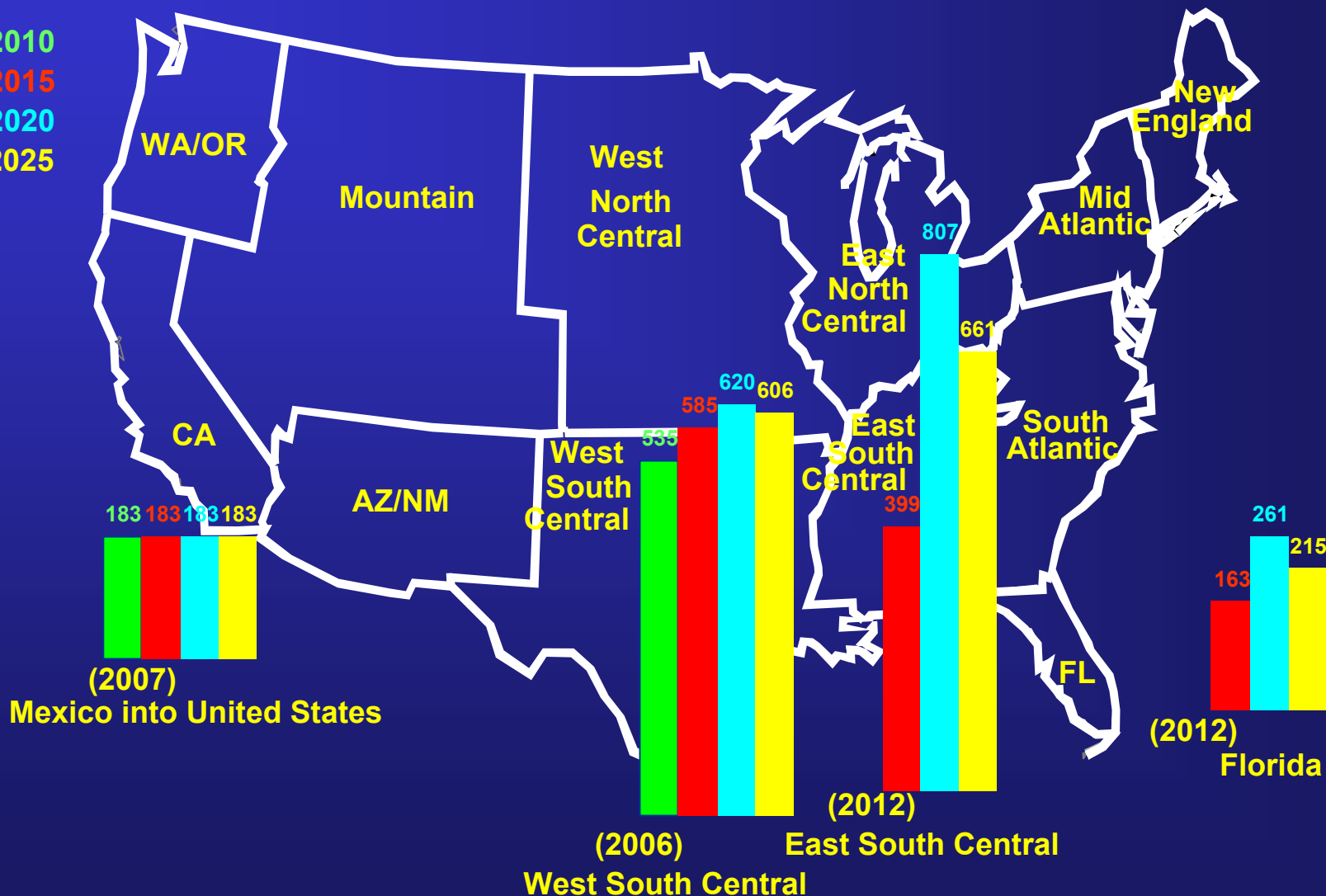
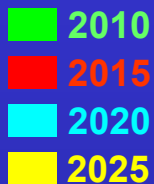
Major Sources of Incremental Natural Gas Supply, 2003-2025 (trillion cubic feet)



U.S. Net Imports of Natural Gas, 1970-2025 (trillion cubic feet)

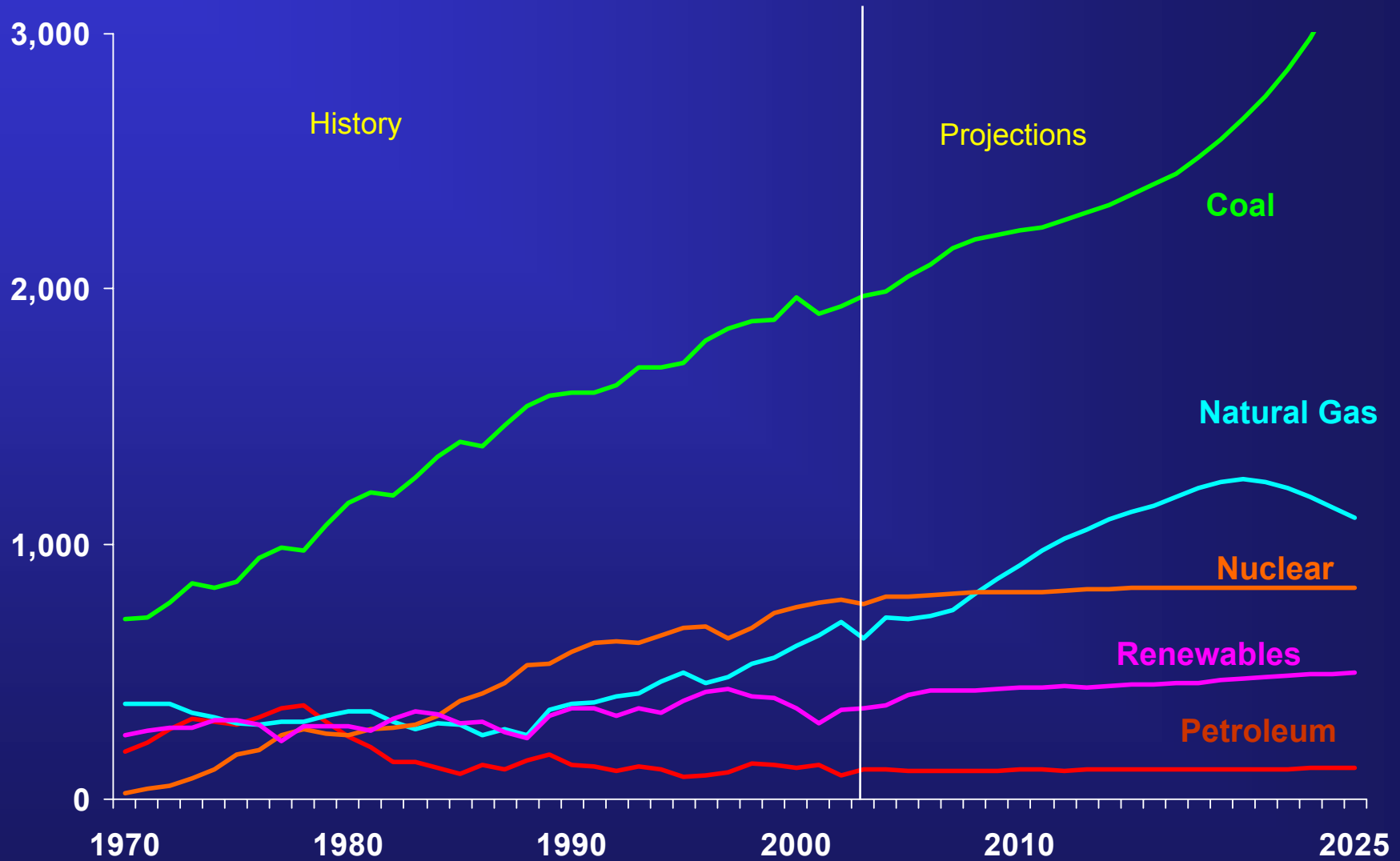


Regional LNG Imports at New Terminals, 2010, 2015, 2020, and 2025 (billion cubic feet)

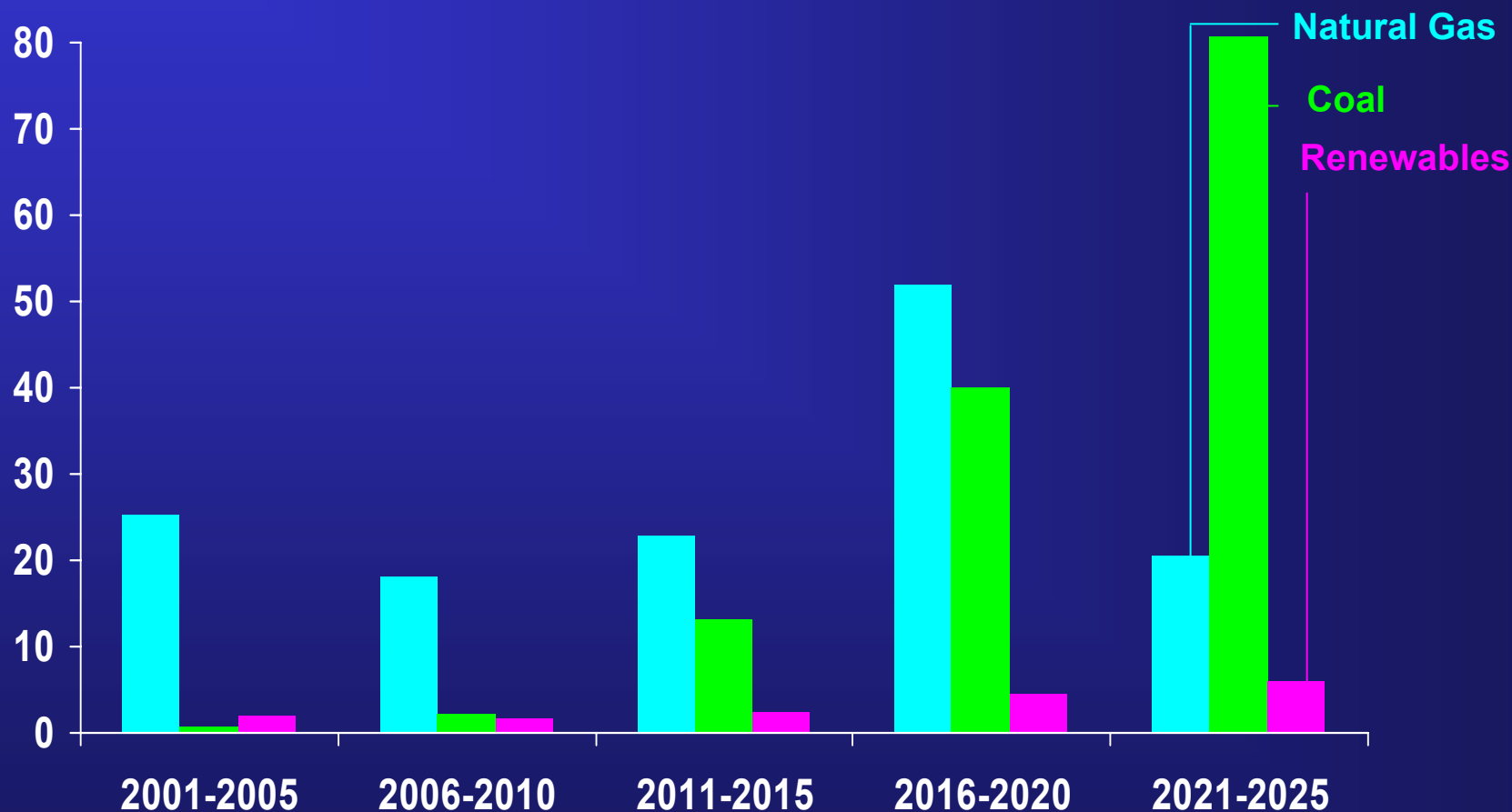


(20xx) – Start year of first new terminal

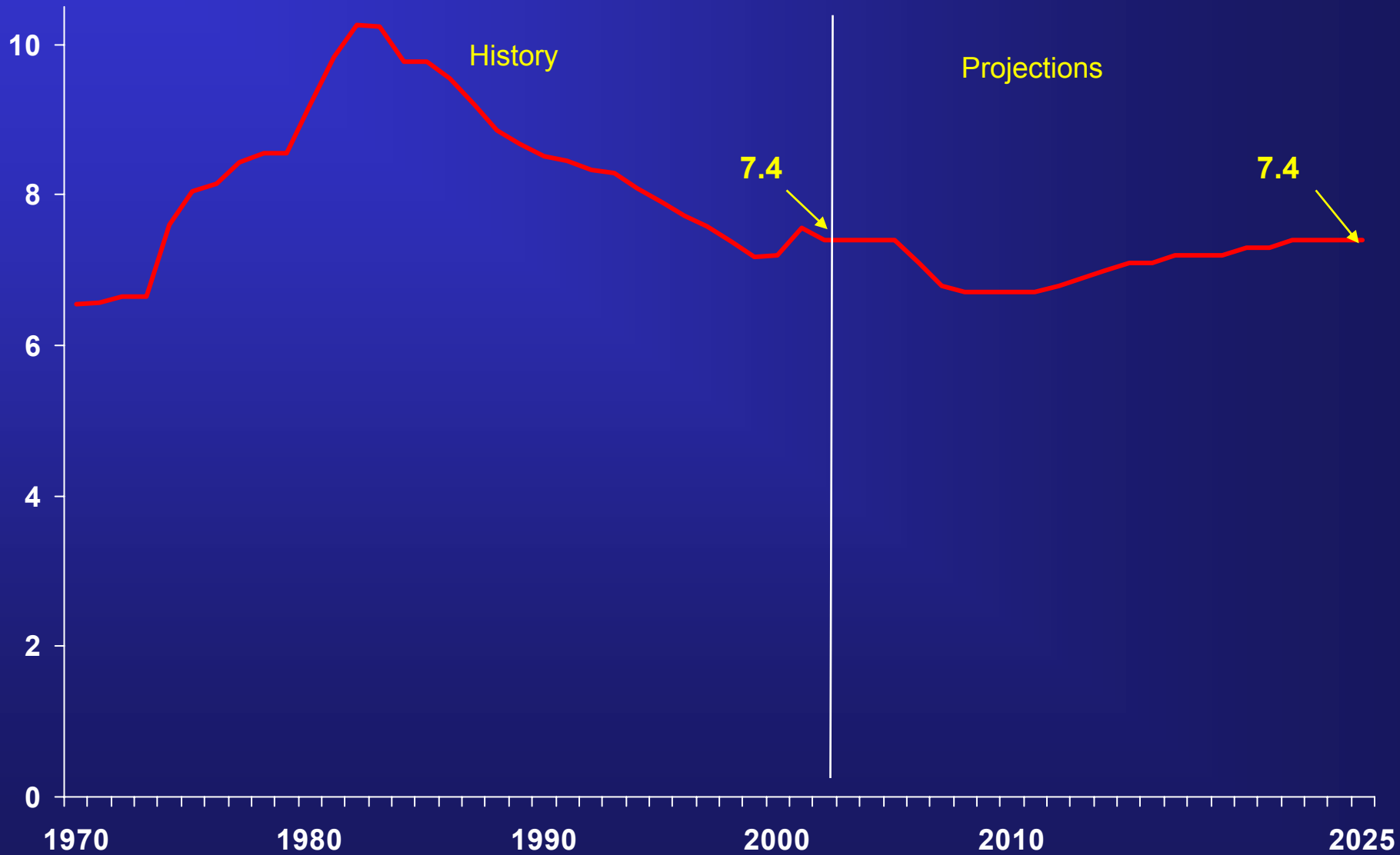
U.S. Electricity Generation by Fuel, 1970-2025 (billion kilowatthours)



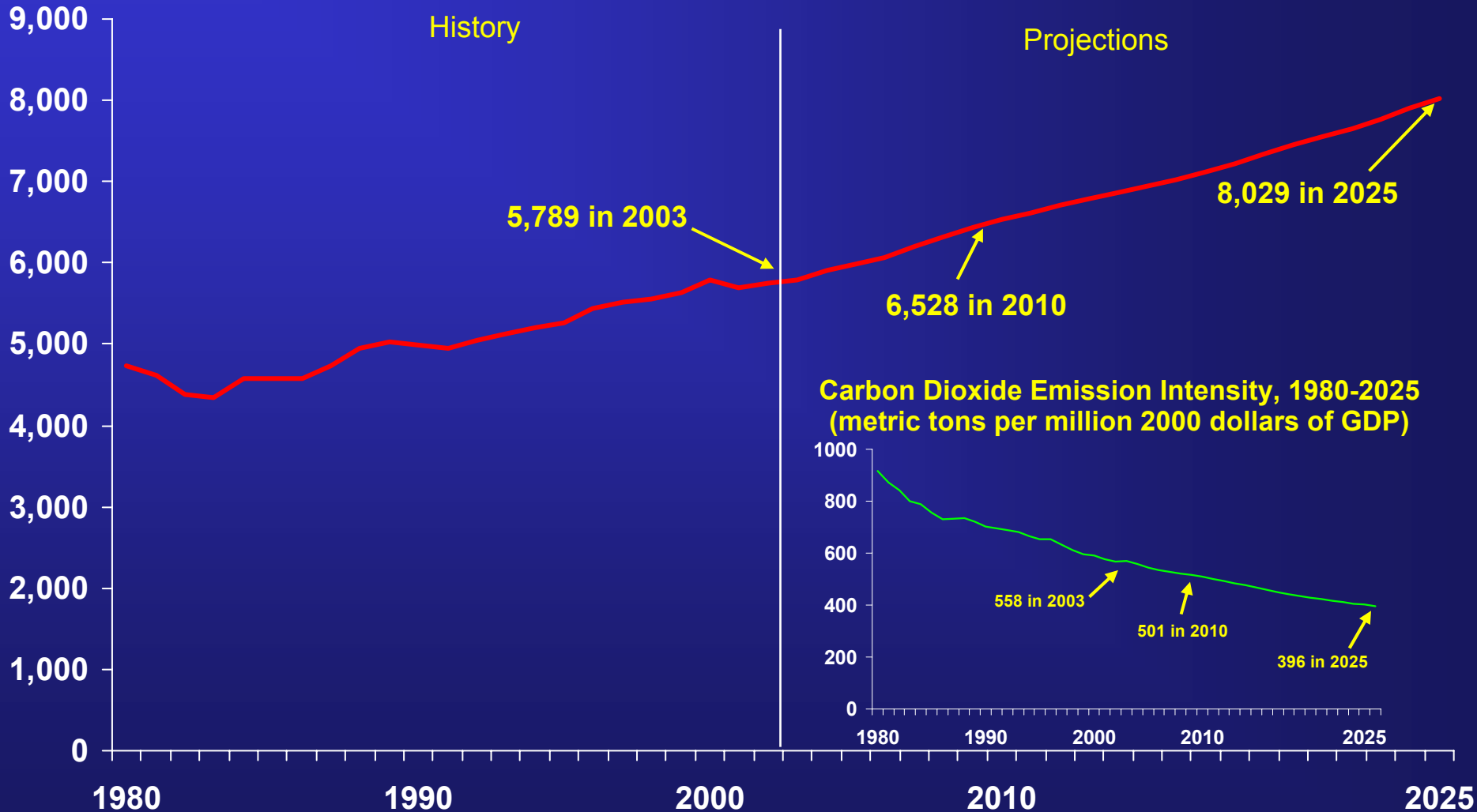
U.S. Electricity Generation Capacity Additions by Fuel Type, 2001-2025 (gigawatts)



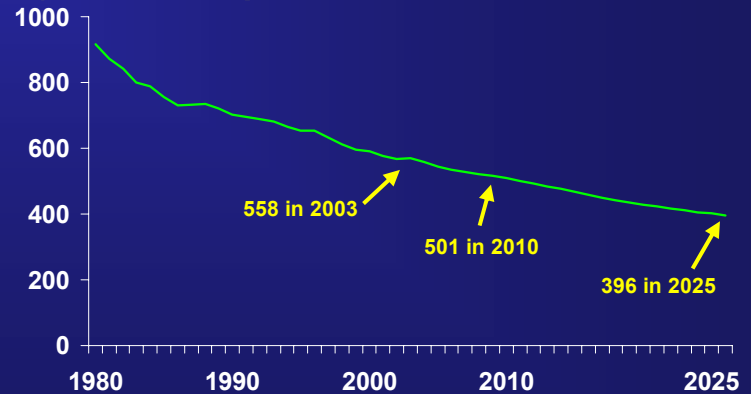
U.S. Average Electricity Price, 1970-2025 (2003 cents per kilowatthour)



U.S. Carbon Dioxide Emissions, 1980-2025 (million metric tons)



**Carbon Dioxide Emission Intensity, 1980-2025
(metric tons per million 2000 dollars of GDP)**



Periodic Reports

Petroleum Status and Natural Gas Storage Reports, weekly

Short-Term Energy Outlook, monthly

Annual Energy Outlook 2005, December 2004

International Energy Outlook 2005, July 2005

Examples of Special Analyses

Renewable Fuels Legislation Impact Analysis, July 2005

Assessment of Selected Energy Efficiency Policies, May 2005

*Analysis of Oil and Gas Production in the Arctic National Wildlife Refuge,
March 2004*

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