

LONG-TERM TRENDS FOR U.S. RESIDENTIAL ENERGY

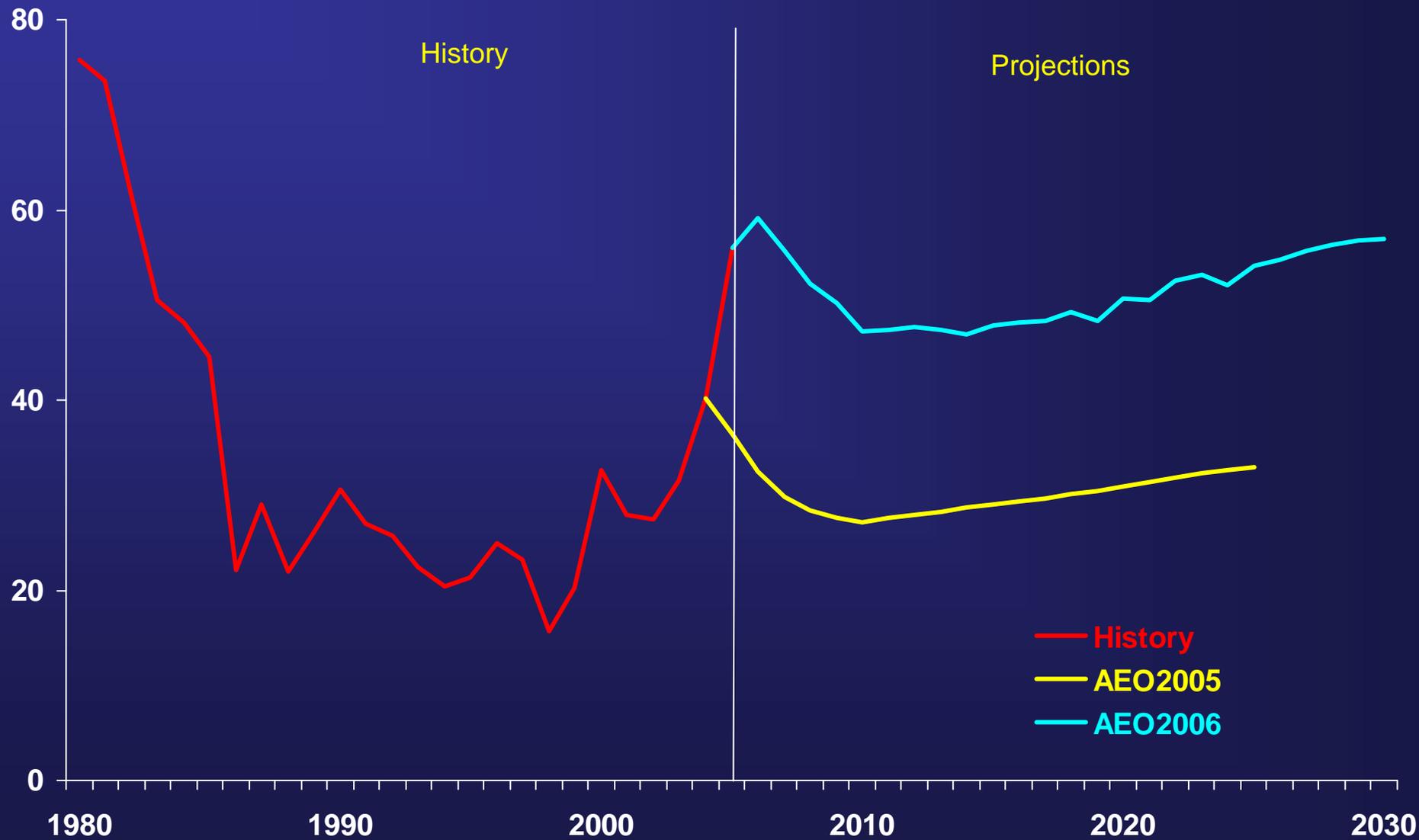
**Guy Caruso, Administrator
Energy Information Administration**

**Policy Advisory Board
Harvard Joint Center for Housing Studies
February 2, 2006
Washington, DC**

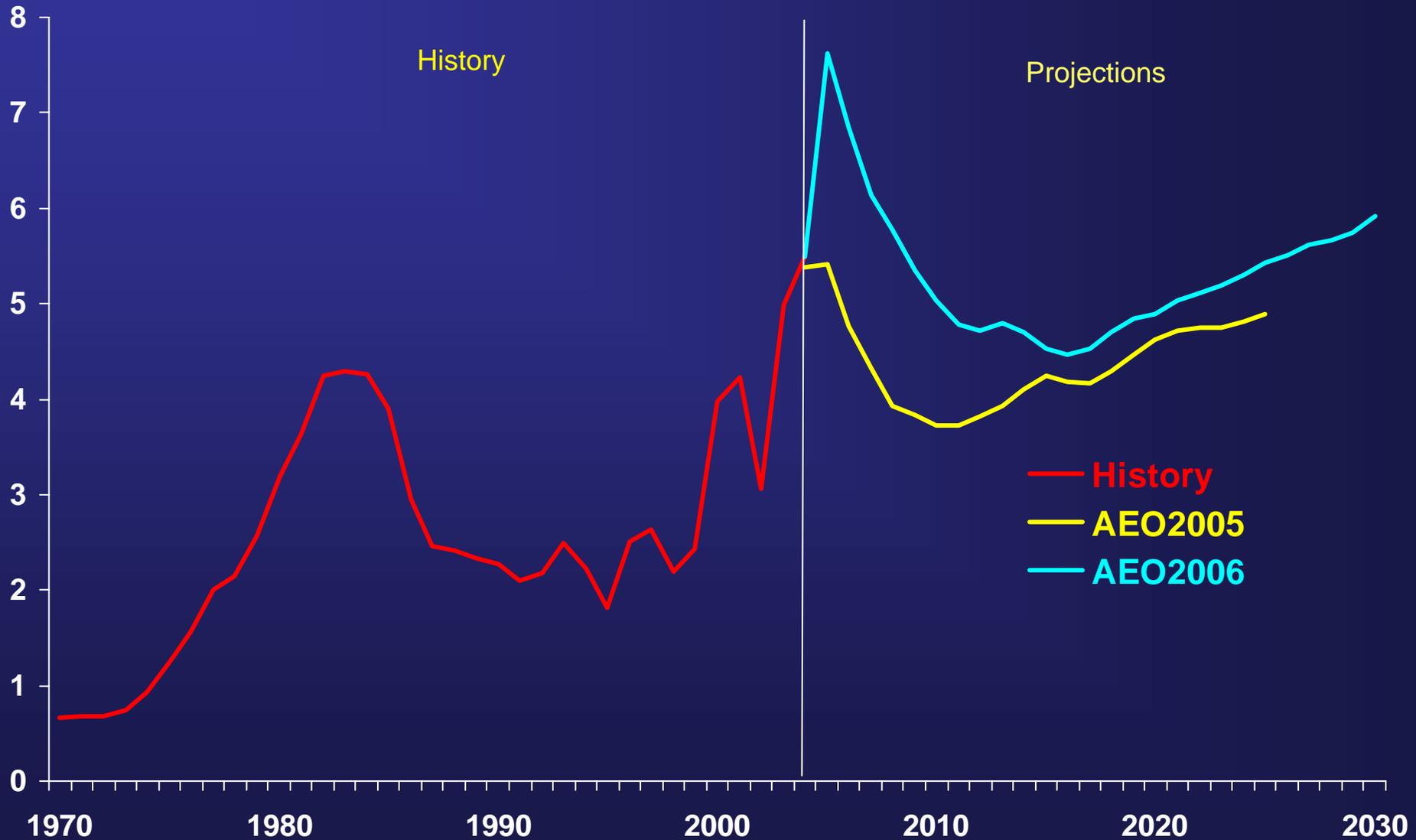
EIA Has Reassessed Its Long-Term Oil Price Projection

- Major oil producing countries pace investment more consistent with higher oil price path
- Investment impediments more persistent, even after several years of relatively high oil prices
- Cost of doing business increasing
- Not due to “Peak Oil” considerations, although we are following this issue closely

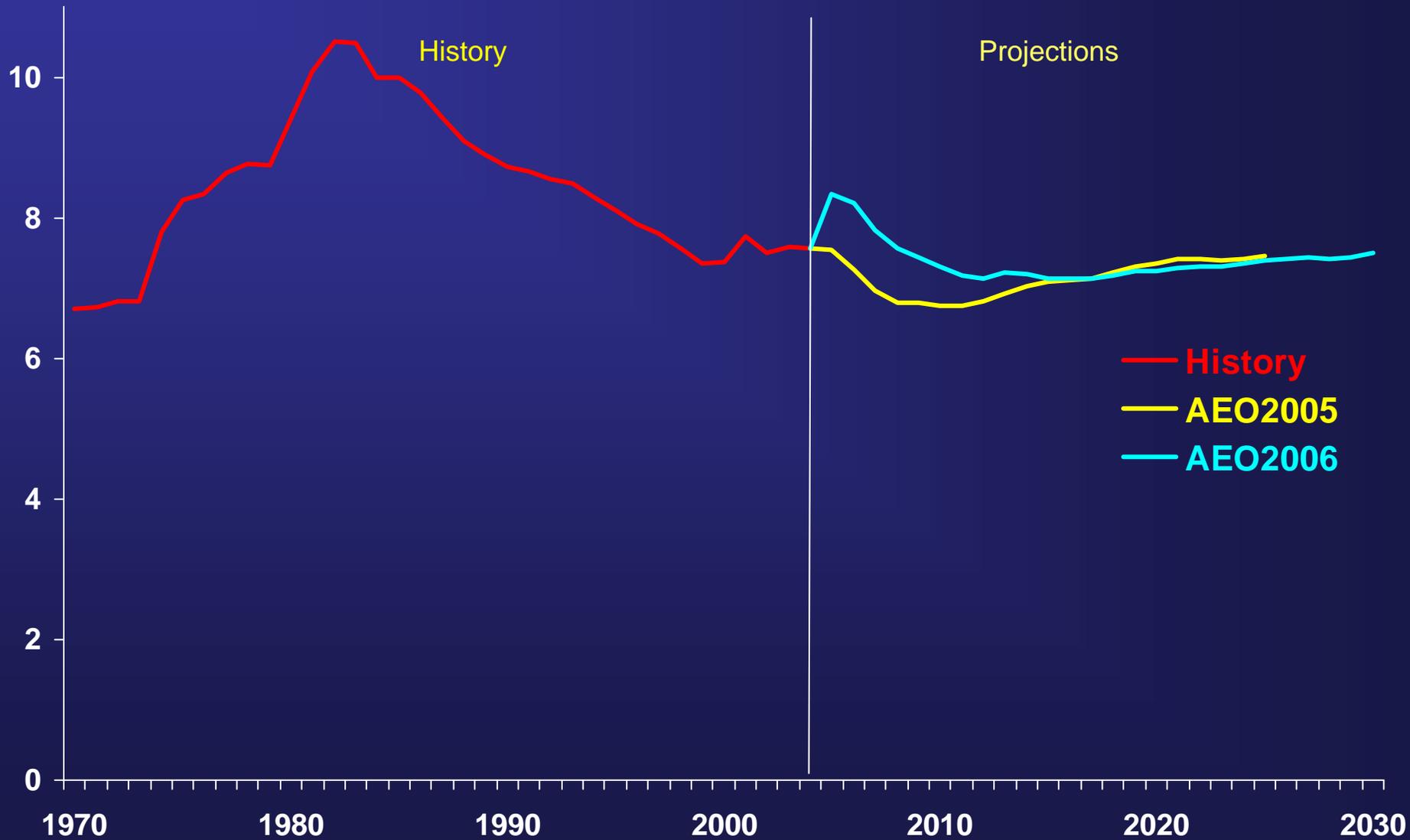
World Oil Price, 1980-2030 (2004 dollars per barrel)



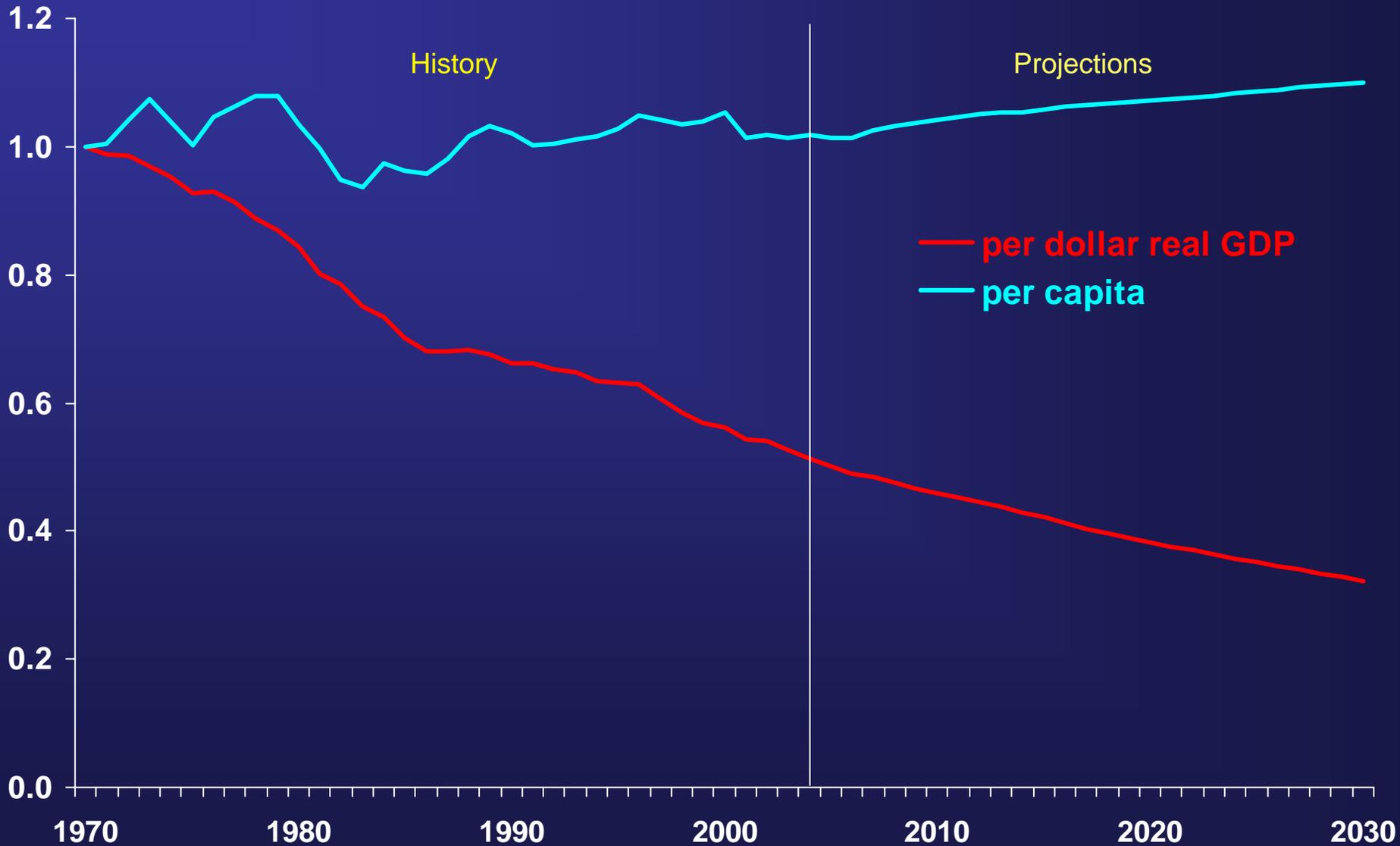
U.S. Natural Gas Wellhead Price, 1970-2030 (2004 dollars per thousand cubic feet)



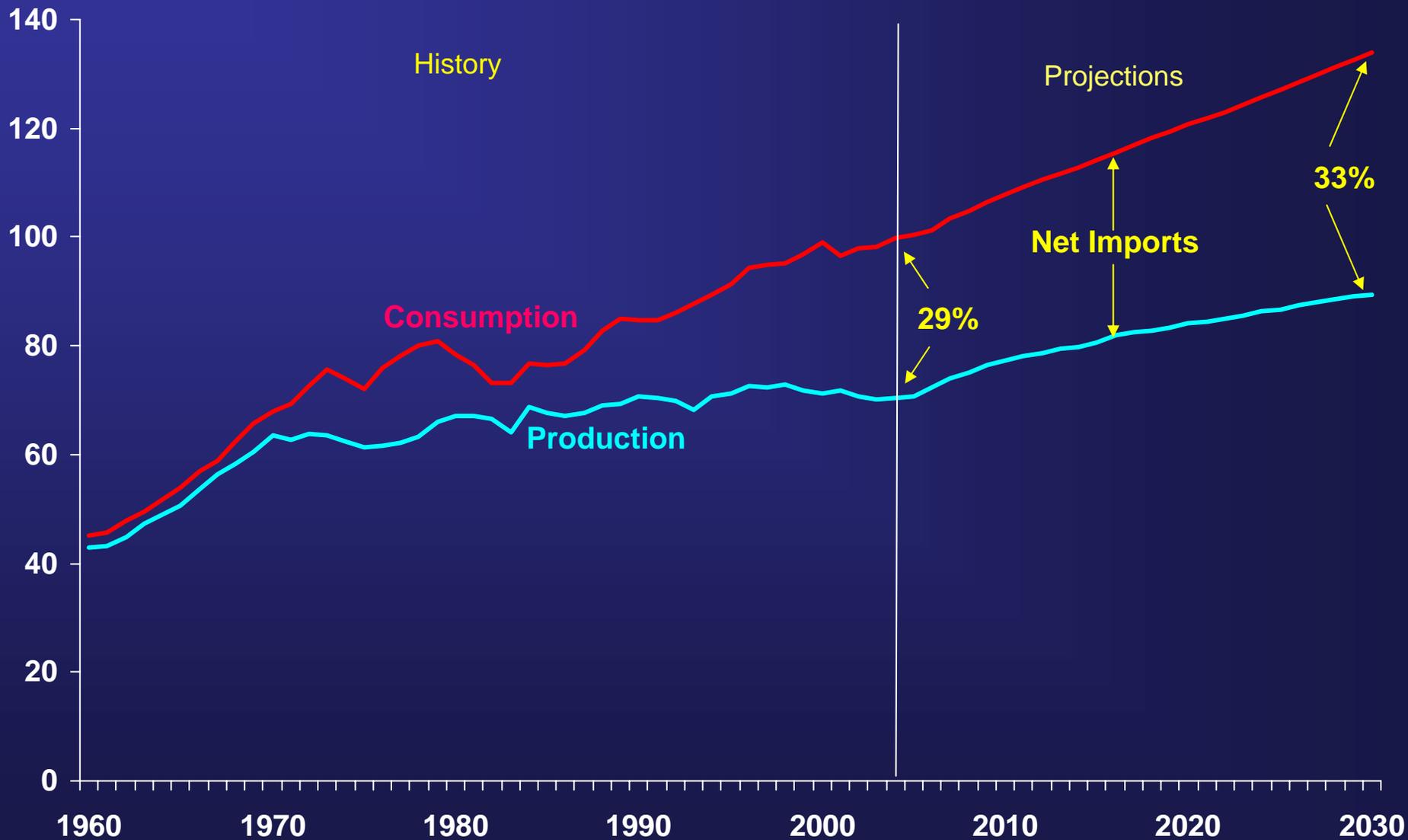
U.S. Electricity Price, 1970-2030 (2004 cents per kilowatthour)



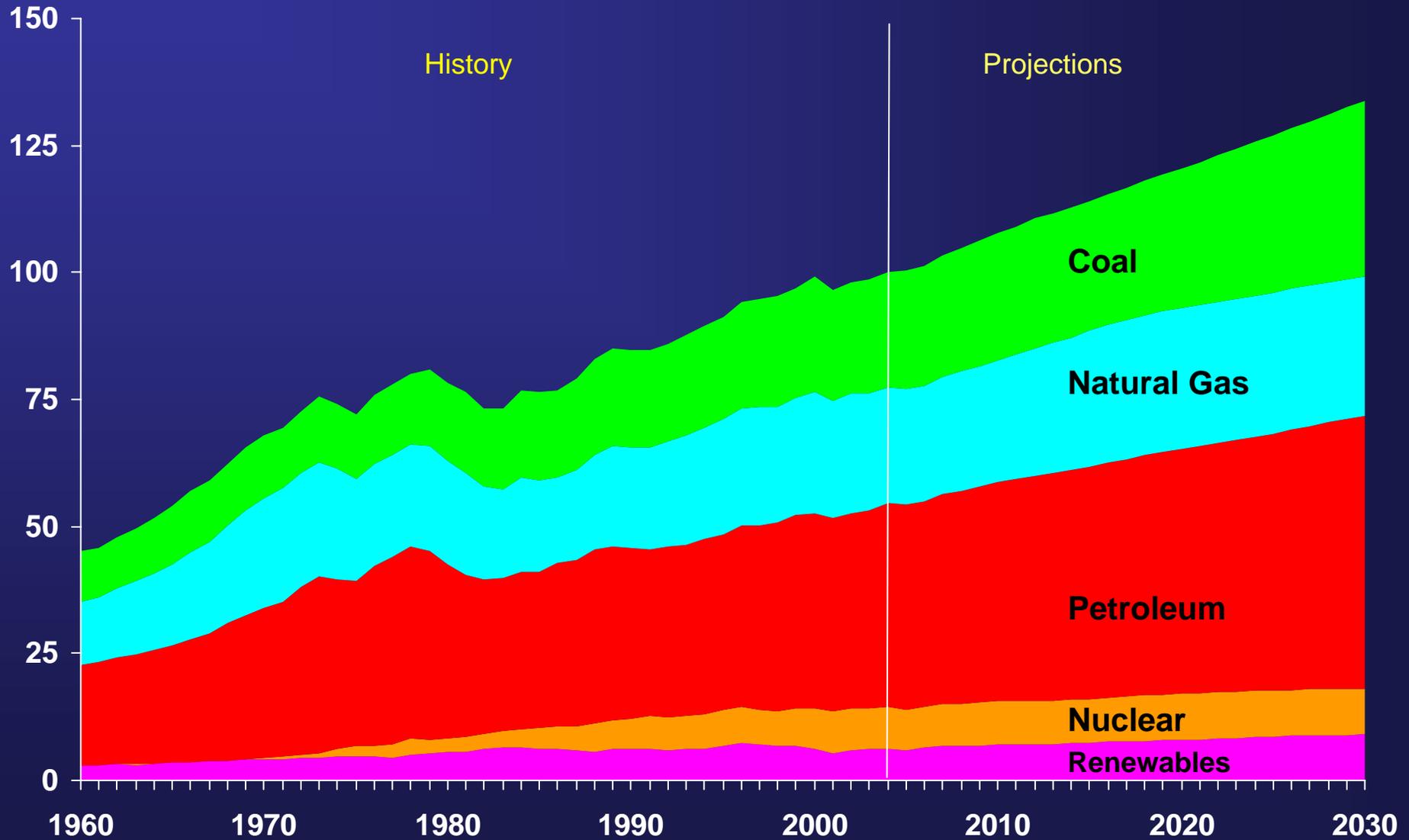
U.S. Energy Use per Capita and per Dollar of Real Gross Domestic Product, 1970-2030 (index, 1970 = 1)



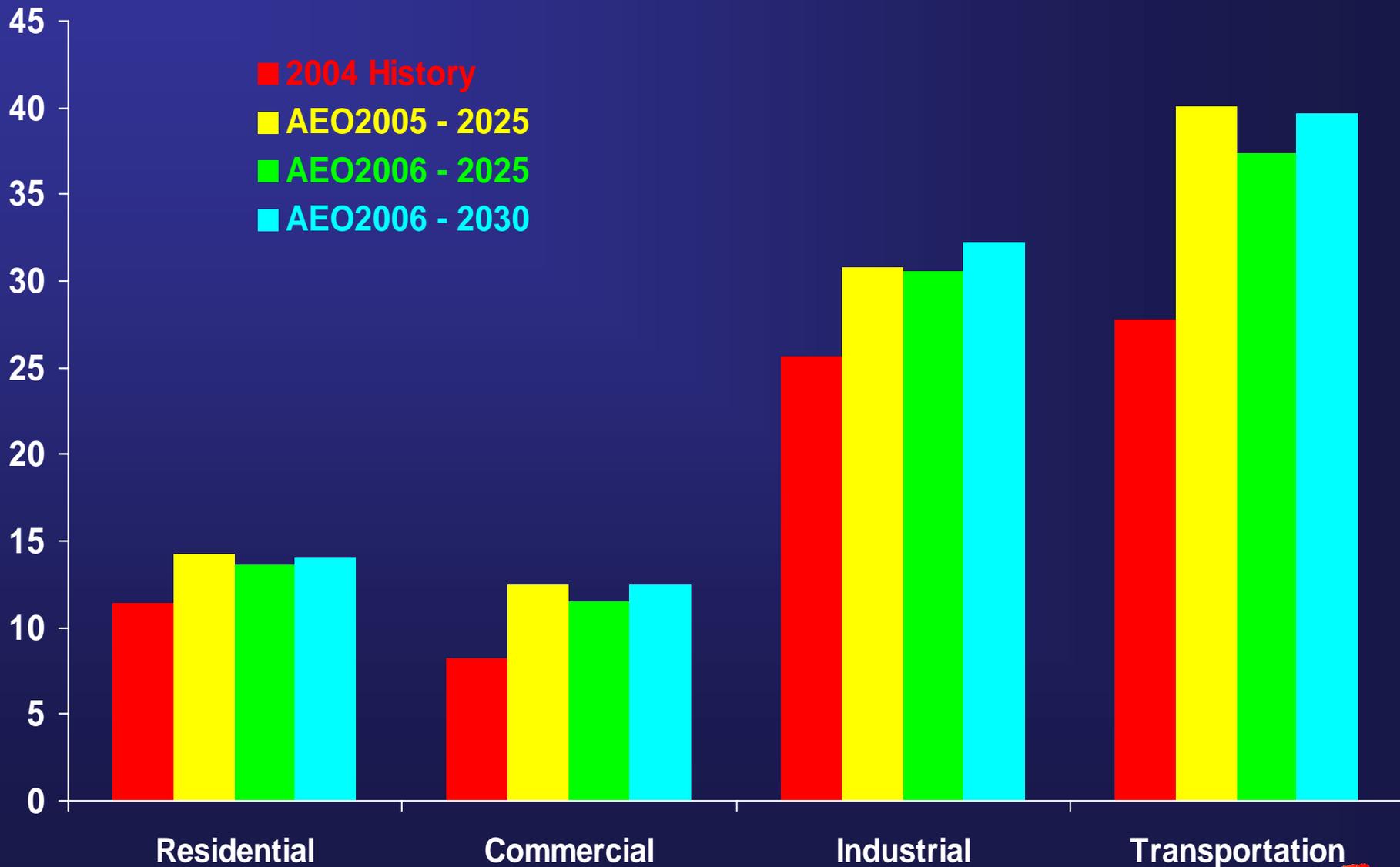
U.S. Energy Production, Consumption, and Net Imports, 1960-2030 (quadrillion Btu)



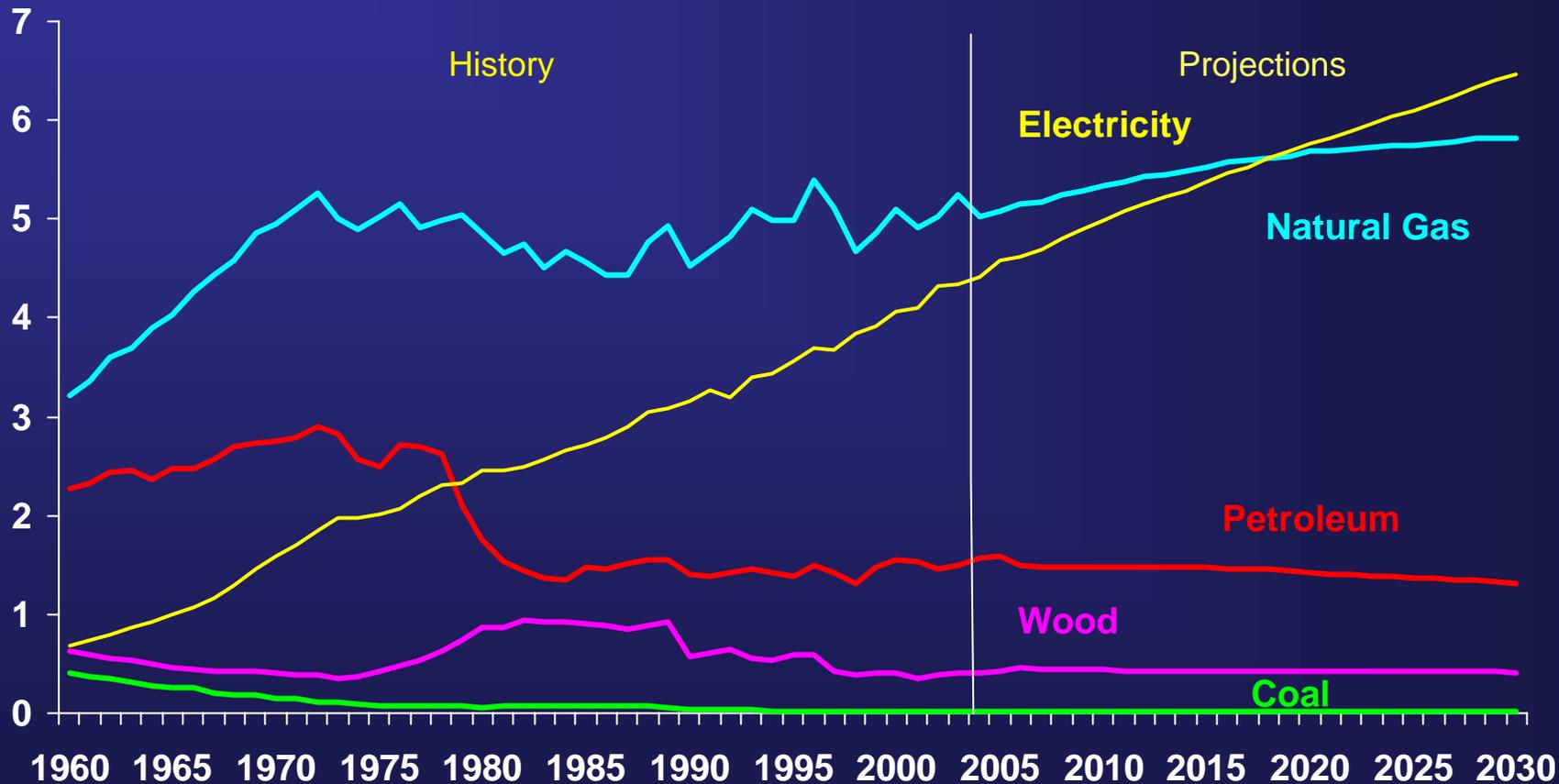
U.S. Primary Energy Consumption by Fuel, 1960-2030 (quadrillion Btu)



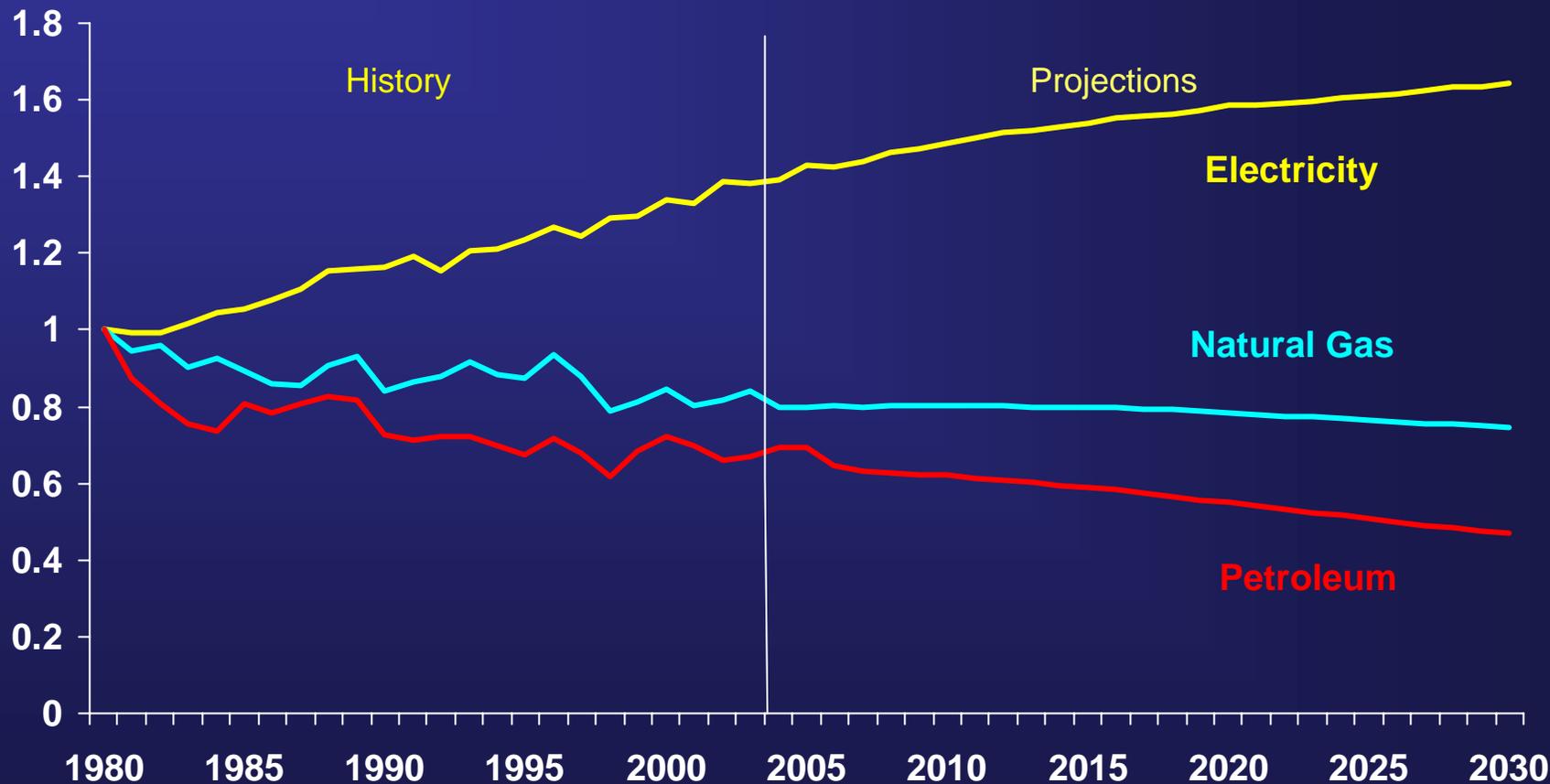
U.S. Delivered Energy Consumption by Sector, 2004, 2025, and 2030 (quadrillion Btu)



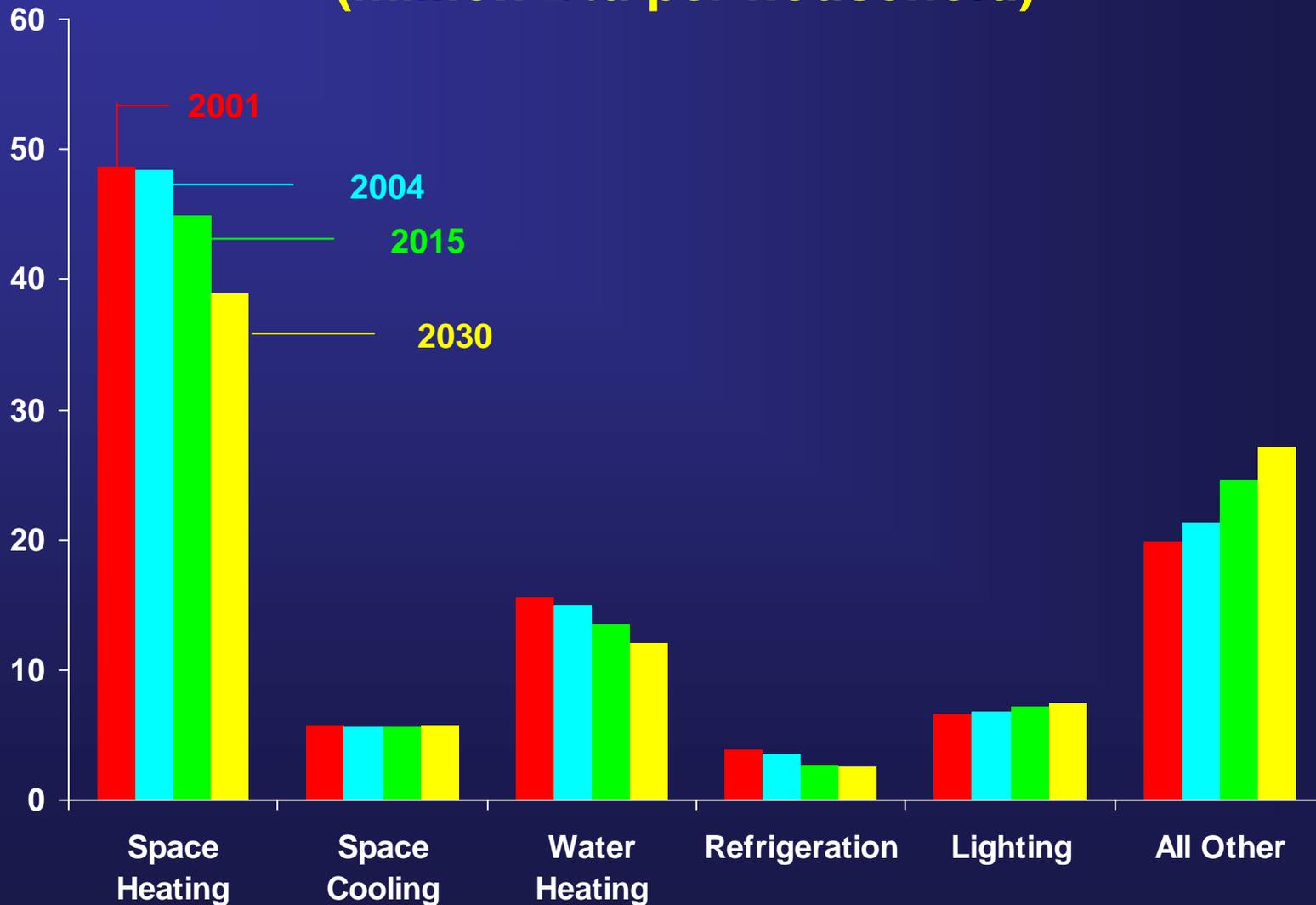
U.S. Residential Energy Use, 1960-2030 (quadrillion Btu)



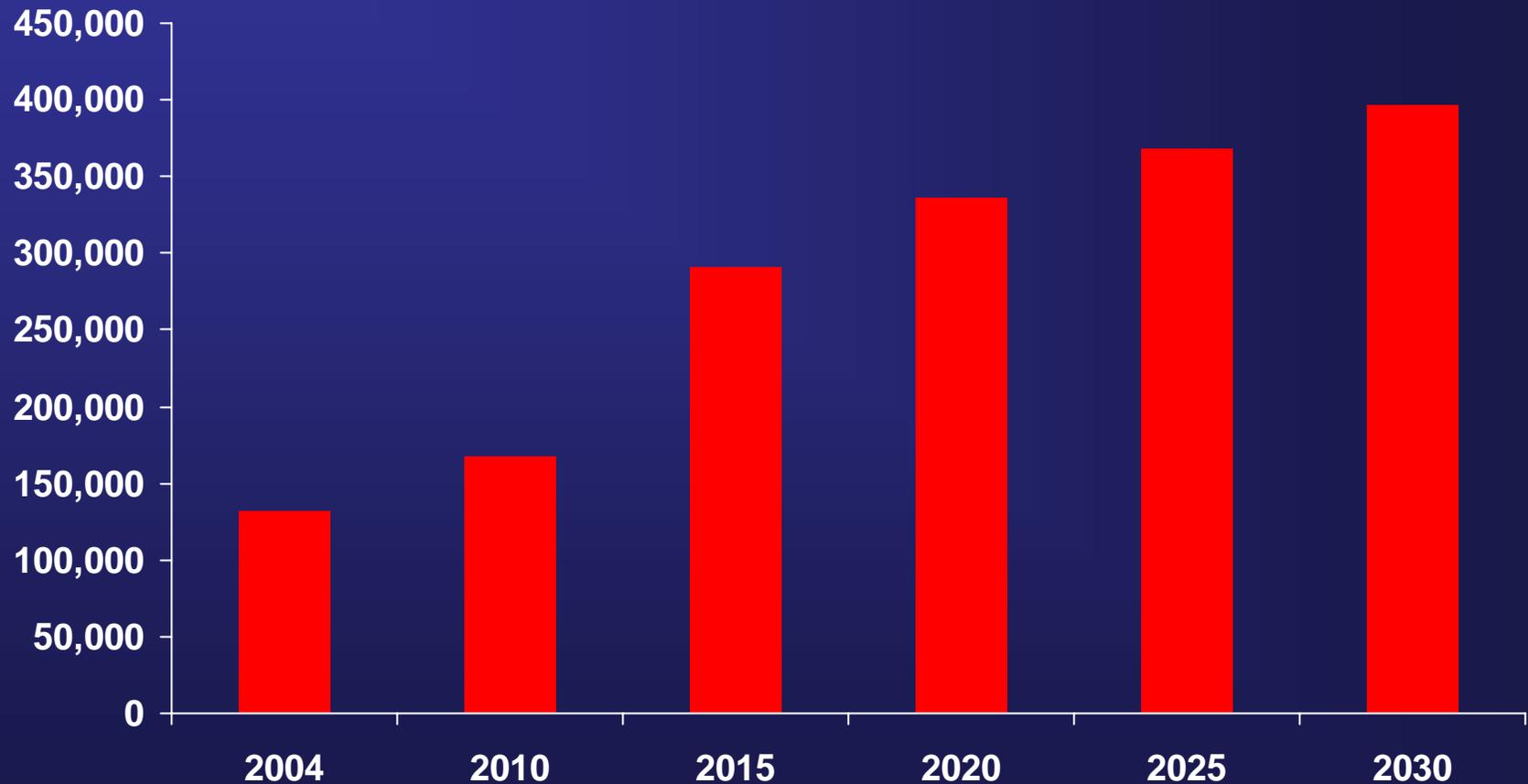
U.S. Residential Energy Use, 1980-2030 (1980=1)



Residential Delivered Energy Consumption by End Use, 2001, 2004, 2015, and 2030 (million Btu per household)



Energy Star Homes Completed, 2004-2030

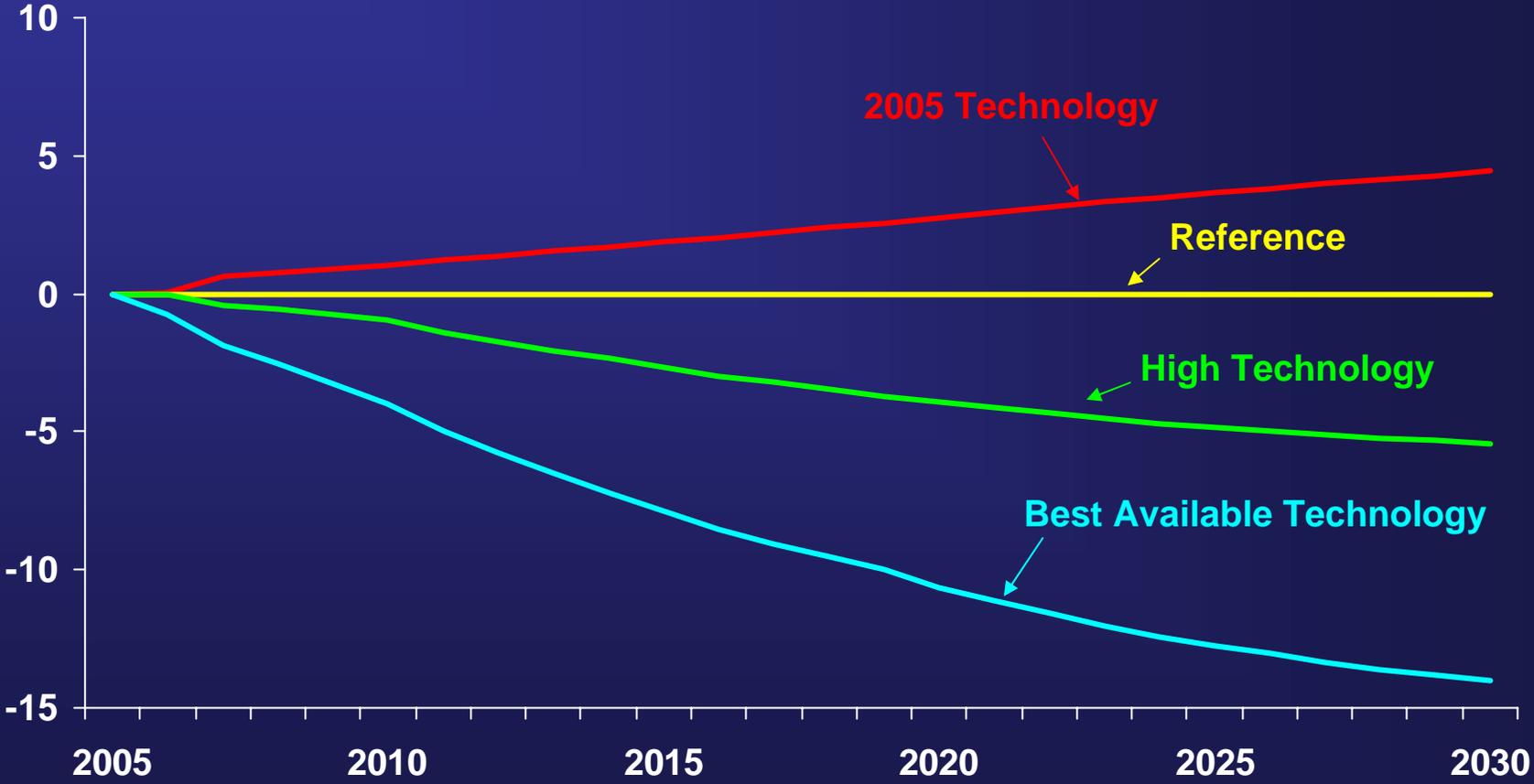


Sources: 2004 Data: Environmental Protection Agency; Projections: Energy Information Administration, Annual Energy Outlook 2006.

Environmental Protection Agency, *Annual Energy Outlook 2006*



Change in Residential Energy Use in Three Alternative Cases, 2005-2030 (million Btu per household)



***Annual Energy Outlook 2006* reference case indicates that through 2030....**

- U.S. energy demand is projected to grow at an average annual rate of 1.1 percent
- The energy efficiency of the economy is projected to increase at an average annual rate of 1.8 percent
- U.S. oil import reliance is projected to grow from 58 percent to 62 percent
- U.S. natural gas use is projected to peak around 2020
- Future growth in U.S. natural gas supplies depends on unconventional domestic production, natural gas from Alaska, and liquefied natural gas imports
- Carbon dioxide emissions are projected to grow at an average annual rate of 1.2 percent

Periodic Reports

Petroleum Status and Natural Gas Storage Reports, weekly

Short-Term Energy Outlook, monthly

Annual Energy Outlook 2006, December 2005, full report, February 2006

International Energy Outlook 2005, July 2005

Examples of Special Analyses

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

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

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

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