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SLIDES: The Future of Energy: What Are the Major Projections for the U.S. Energy Future, and What Are the Implications for the West?

Gary Bryner

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The Future of Energy

What are the major projections for the U.S. Energy Future, and What are the Implications for the West?

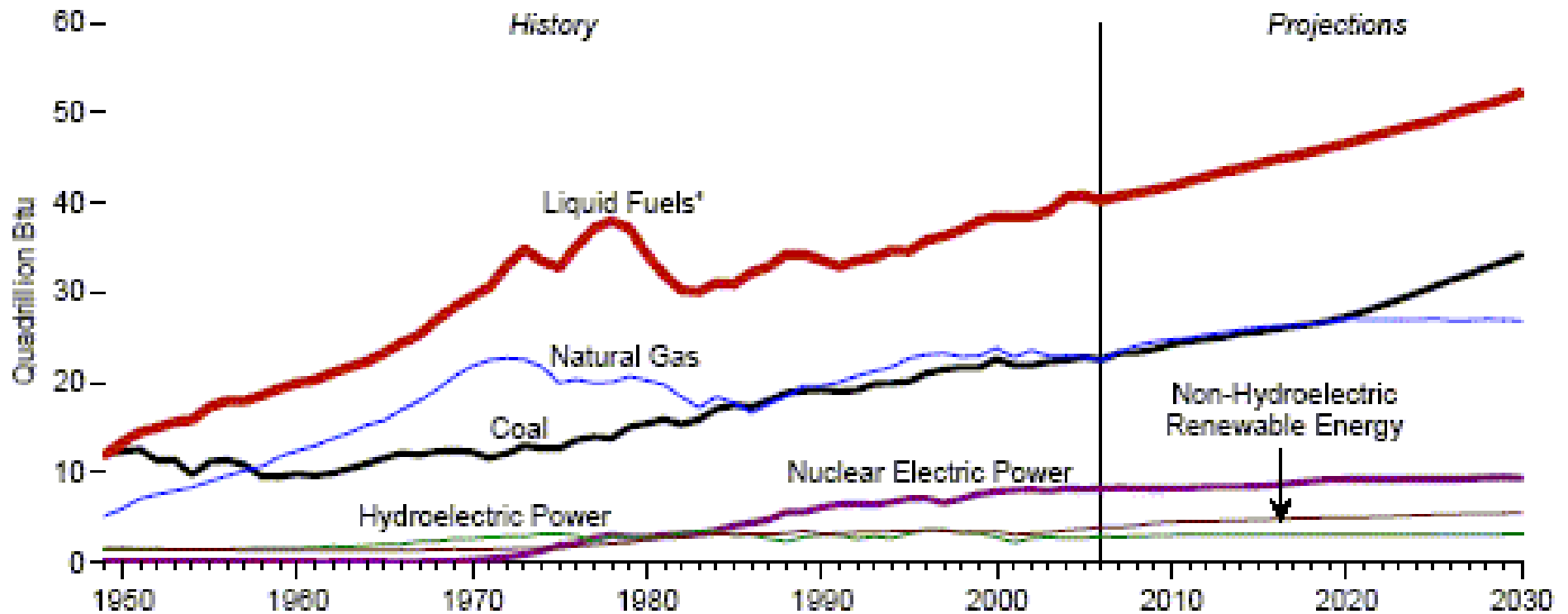
Gary Bryner

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June 4-6, 2008

Natural Resources Law Center, University of Colorado, Boulder

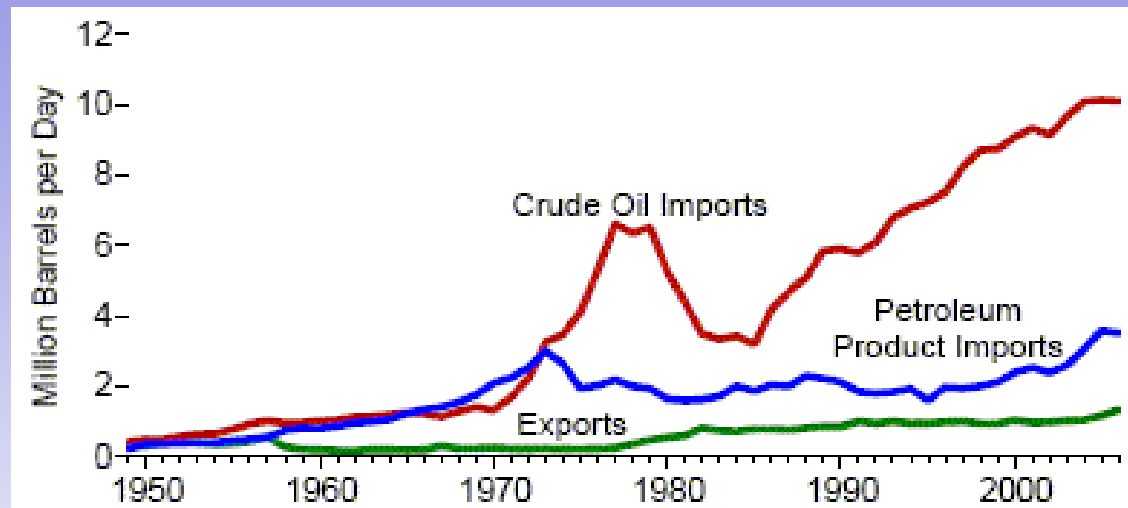
Energy Consumption History and Projections, 1949-2030



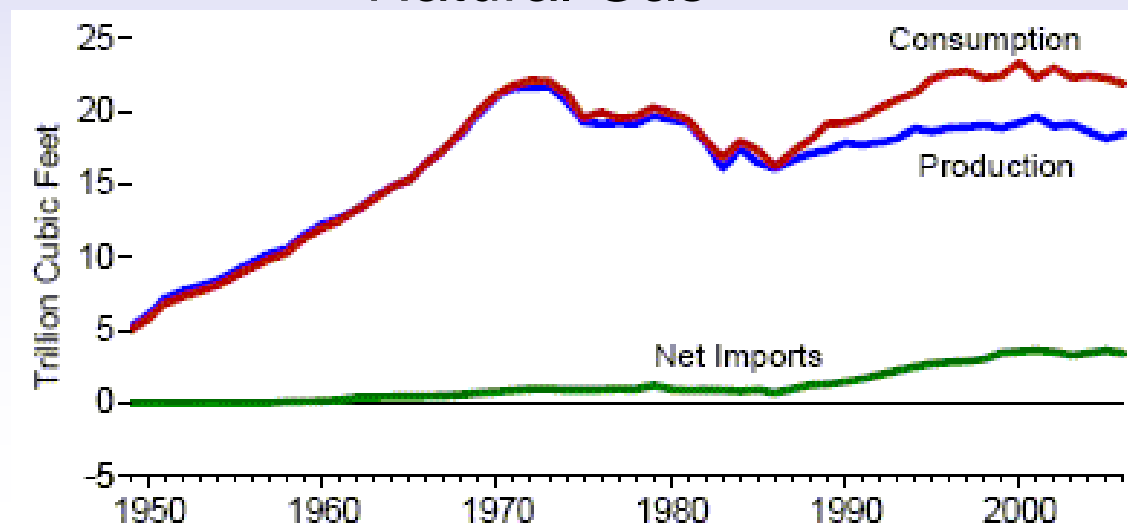
Source: US Dept of Energy, 2006

U.S. Petroleum and Natural Gas Production and Imports

Petroleum

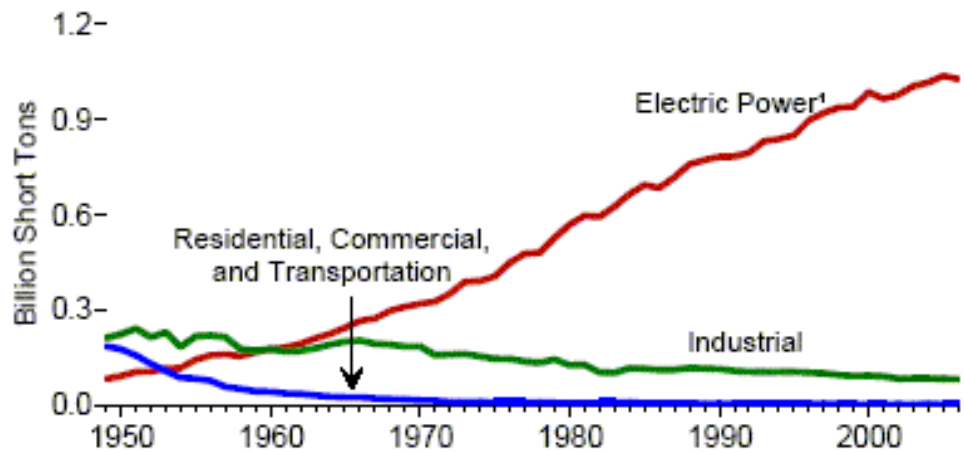


Natural Gas

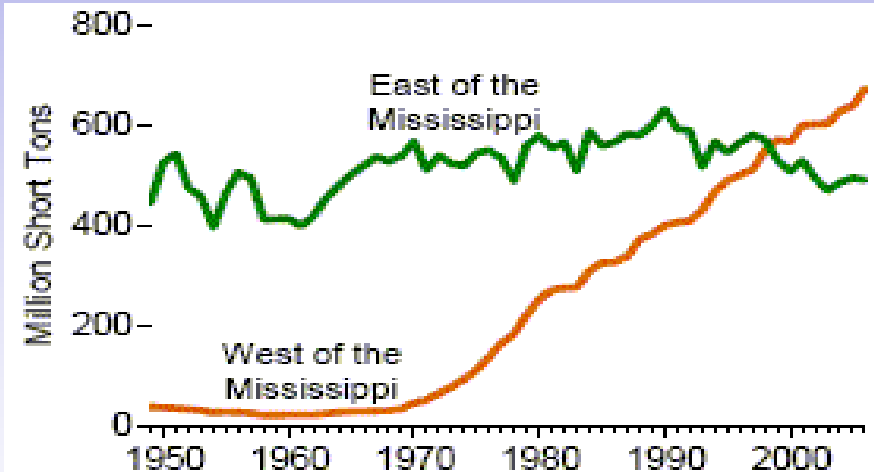


Trends in Coal Production and Consumption

Coal Consumption by Sector

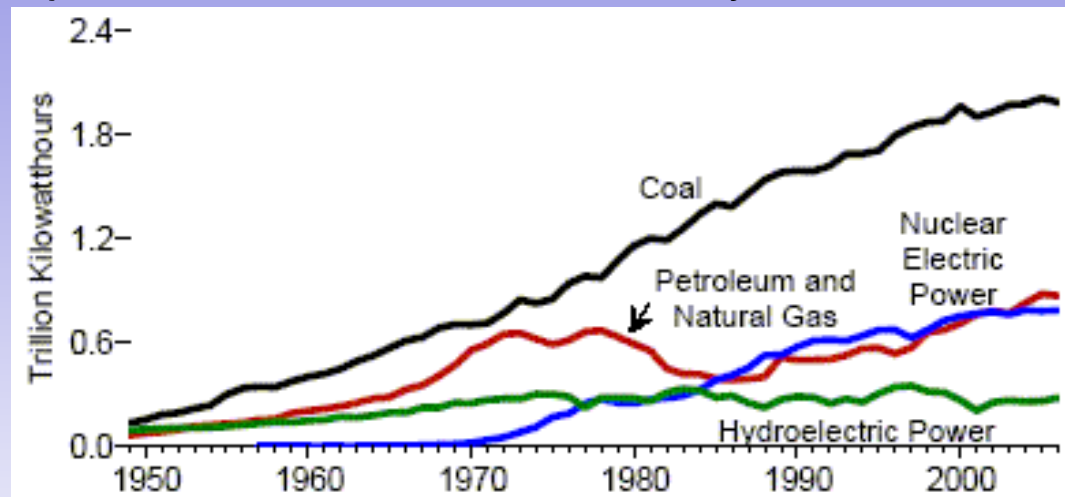


Coal Production by Location

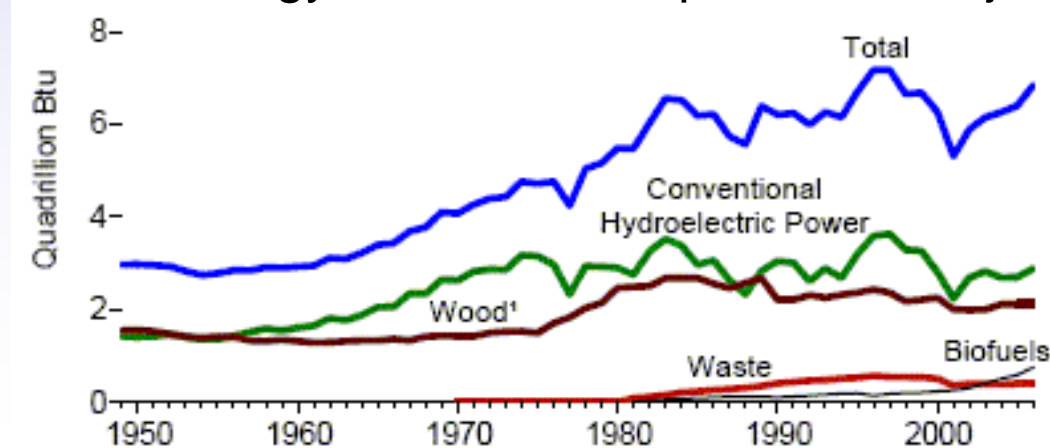


Fuels Used in Generating Electricity

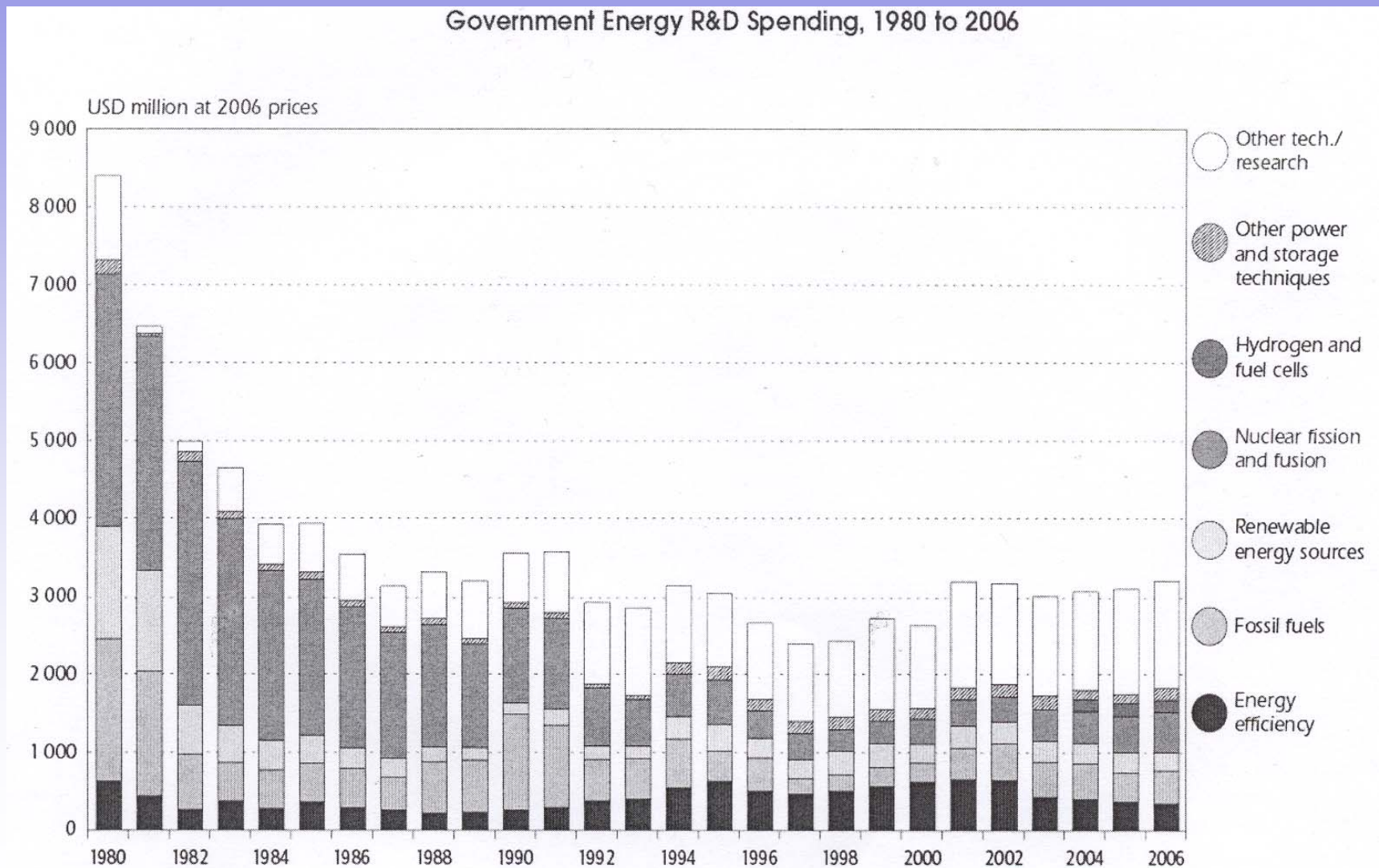
Major Sources of Total Electricity Net Generation



Renewable Energy Total Consumption and Major Sources

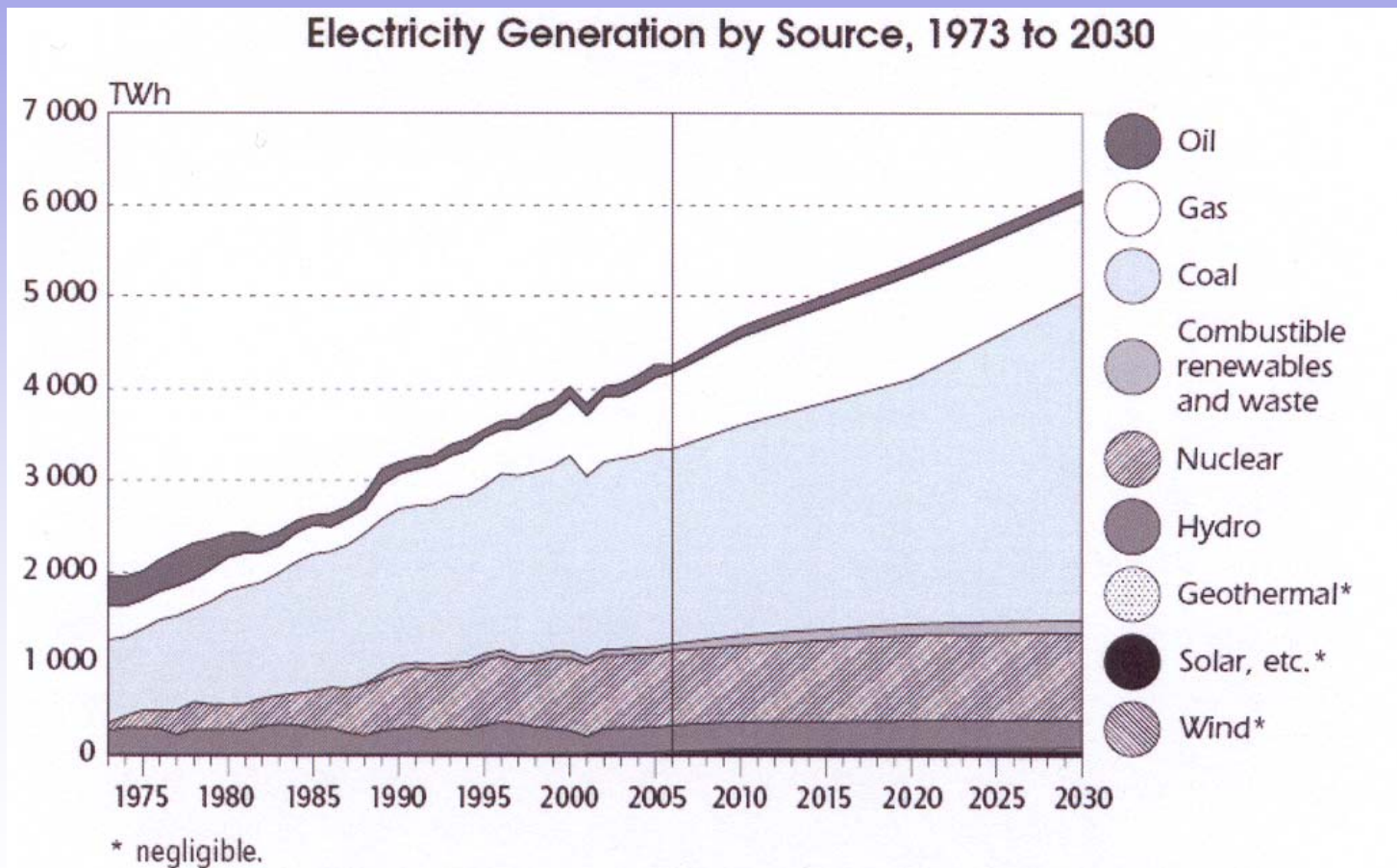


Trends in Government Spending on Energy Research and Development



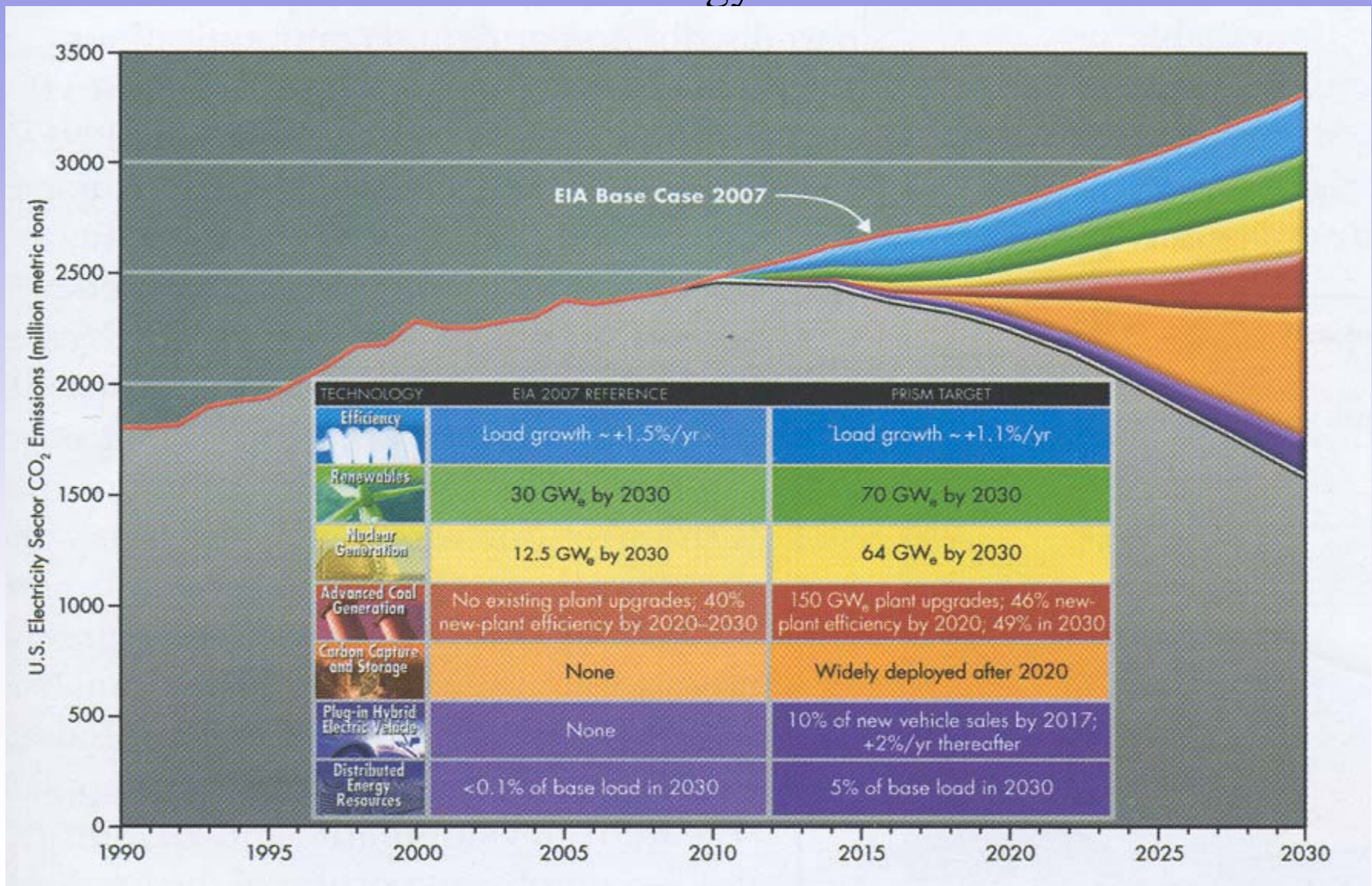
Source: International Energy Agency, 2007

Projected Fuel Use in Electricity Generation



Source: International Energy Agency, 2007

Electric Power Research Institute's PRISM Analysis for U.S. Energy Future



Implications for the West:

What are the Challenges in Pursing Energy Goals?

- How to best use limited water resources?
- How to protect tribal sovereignty?
- How to preserve biodiversity, wild lands and open spaces?
- How to provide for effective transmission of electricity throughout the West?
- How to contribute to efforts to reduce the threat of climate change?