



# **Winter 2004-05 Natural Gas Outlook—The View from the West**

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# Today's Review

- Natural Gas Fundamentals Outlook
- Price Outlook
- Actions State Commissions Can Take
- Concluding Remarks

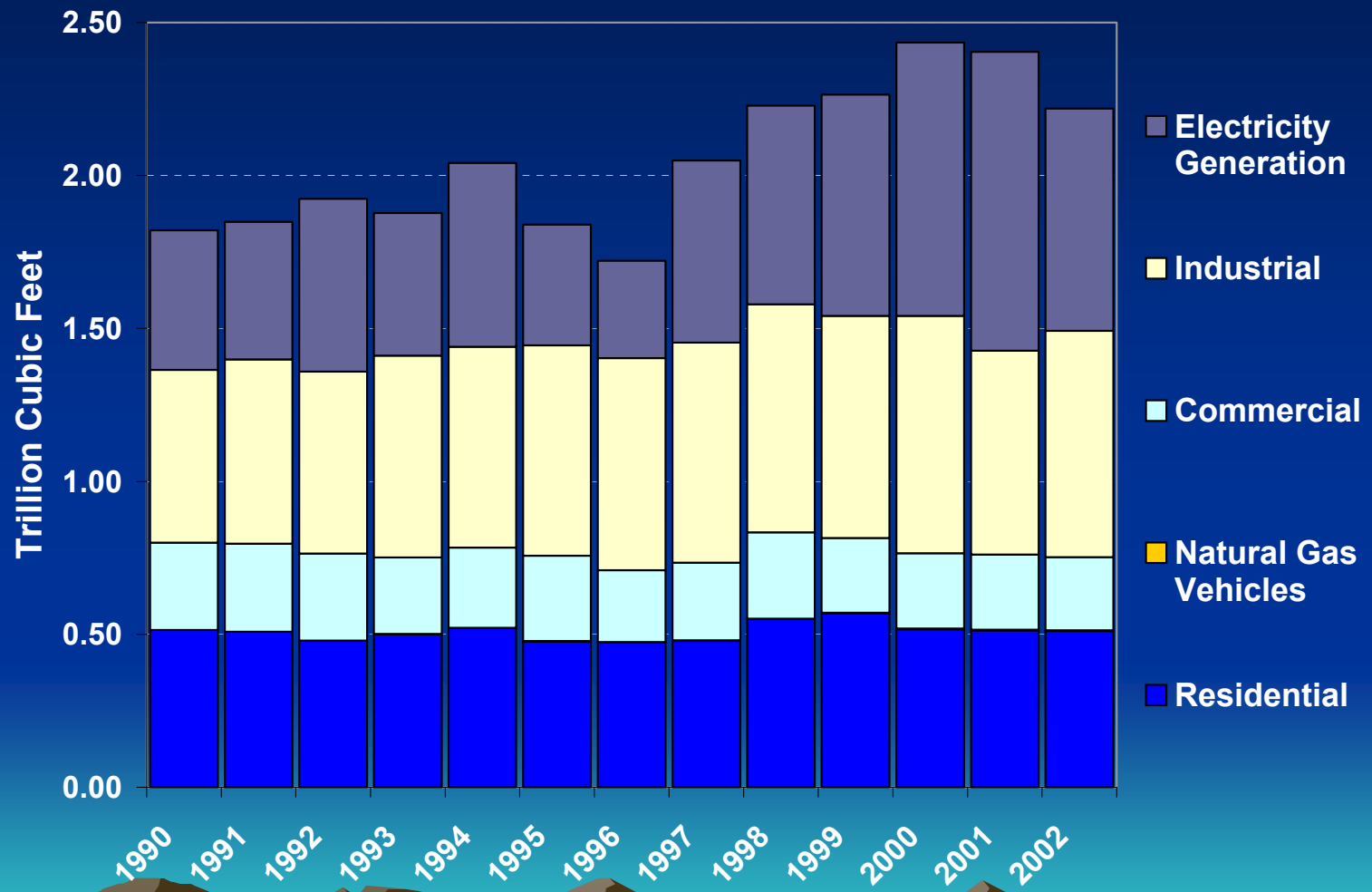


# Natural Gas Fundamentals Outlook

- Western perspective
- Demand trends
- Weather outlook
- Supply trends
- Infrastructure status
- Operations status



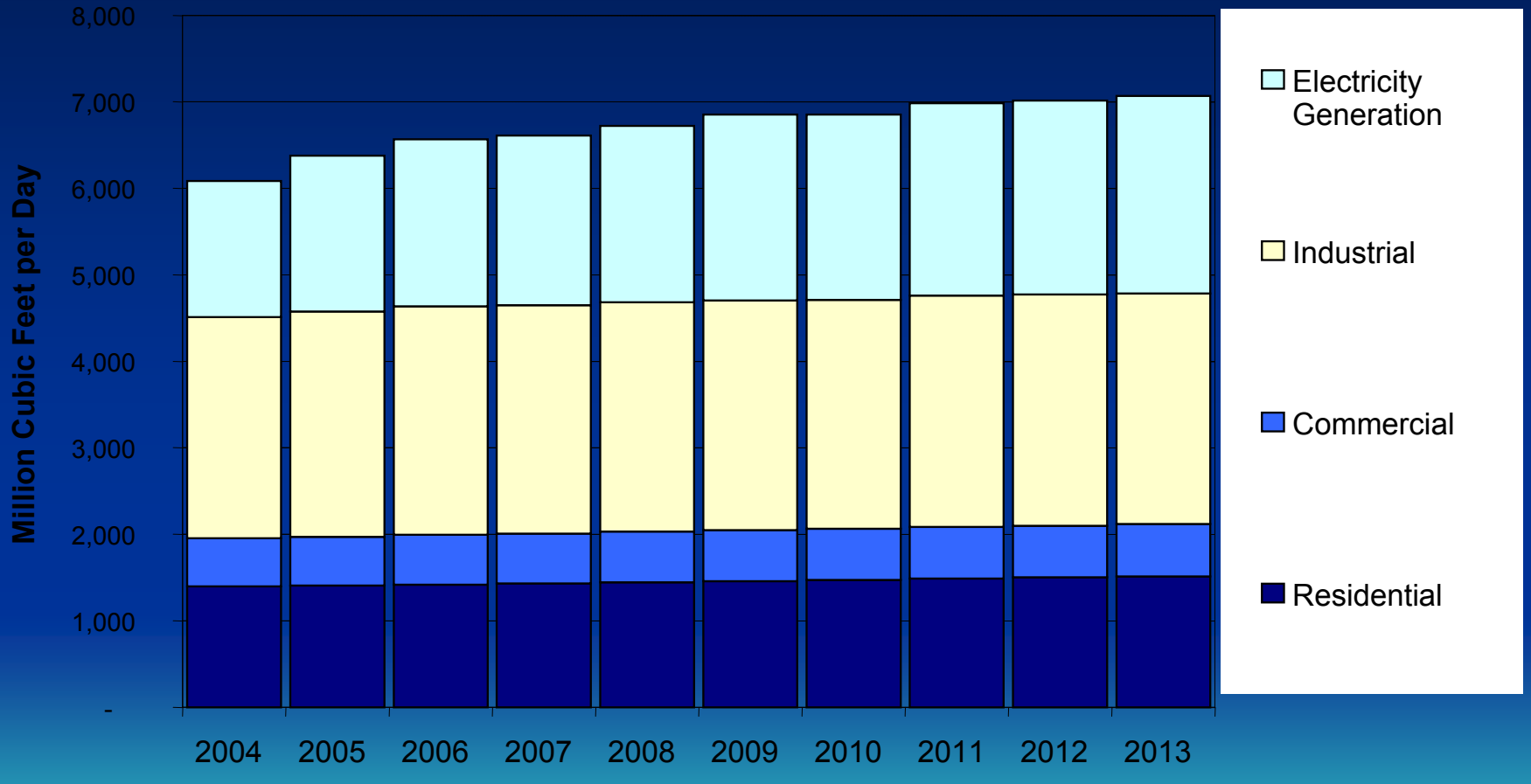
# California's Annual Natural Gas Consumption by End Use Sector





# California's Demand Trends

## California Natural Gas Demand, by Sector





# Western Weather Outlook

- NOAA, WSI—West likely to have a moderate winter
- Snowfalls have started early—California ski season has started 1 month early
- Hydropower outlook good for California—helps reduce total and peak gas demand next summer
- Severe drought in the Colorado River Basin—will increase total gas demand next summer





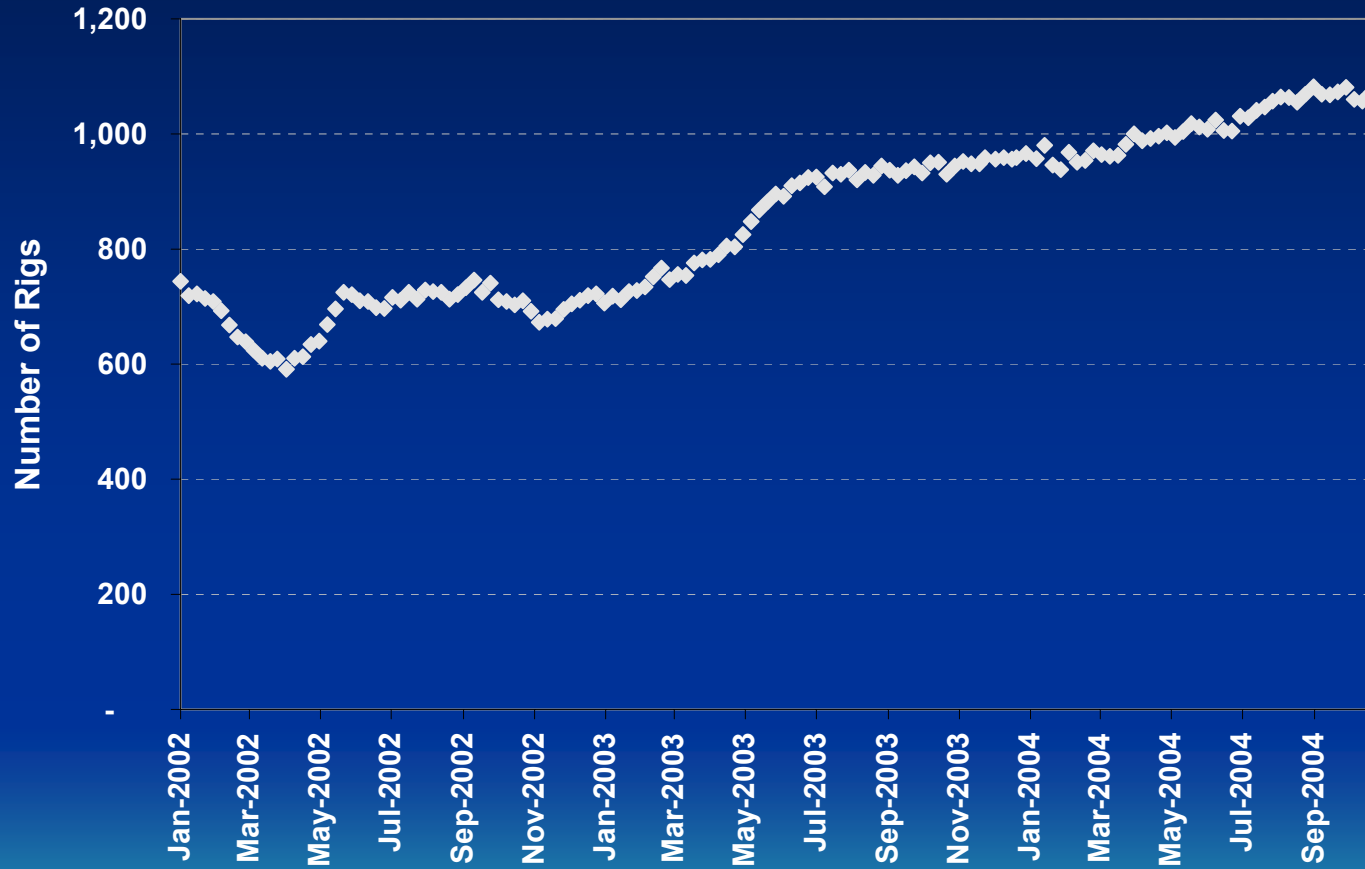
# Western Supply Trends

- California production is slowly trending down
- Rockies production is increasing
- Gulf shut-ins of 1.5 bcf/day is worrisome
- Drilling activity is at an (almost) all time high
- New wells are being drained faster





# U.S. Active Gas Drilling Rigs



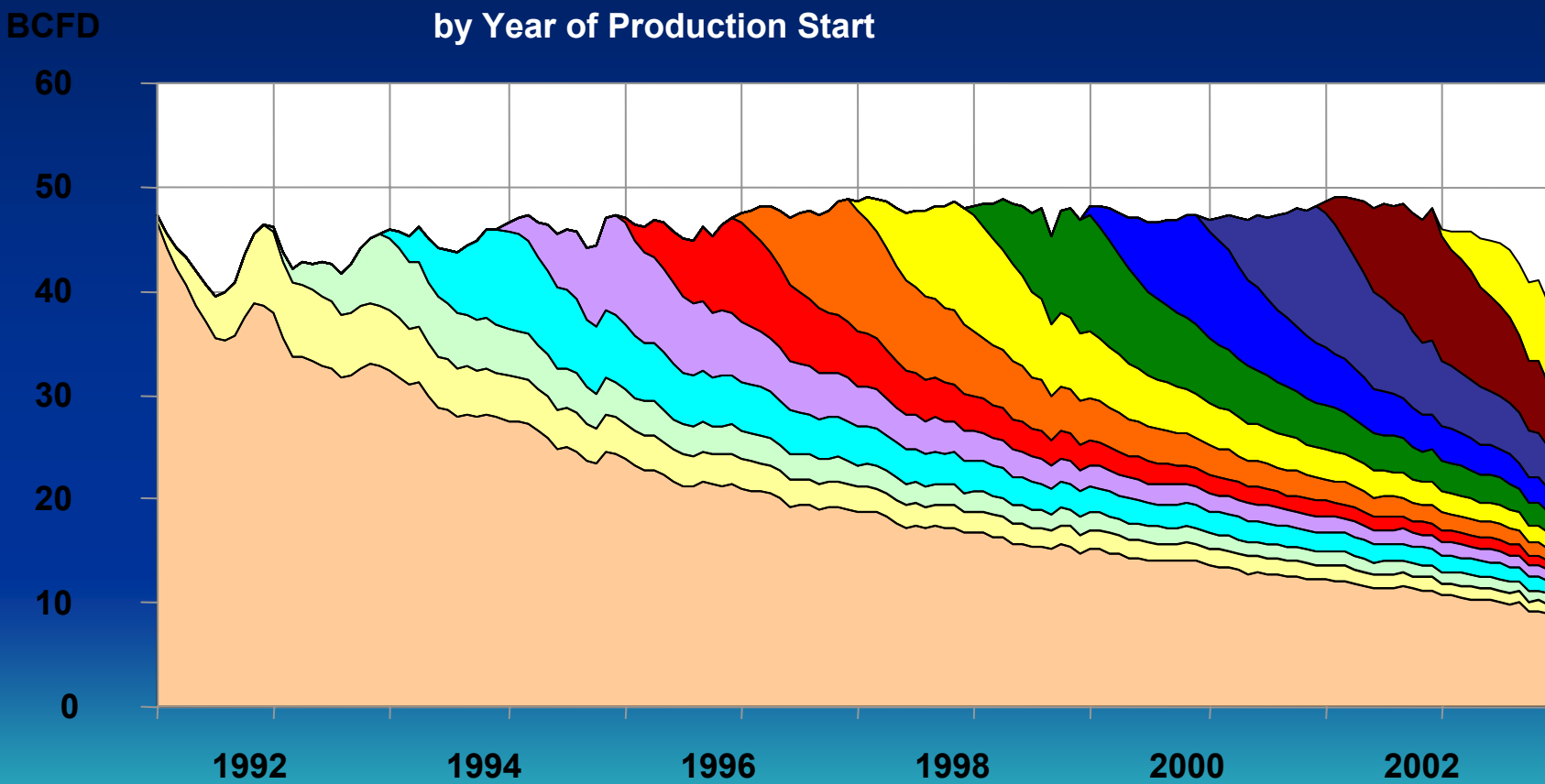
Source: Bakers Hughes



# Gas Depletion Rates

Lower - 48 Wet Gas Production from Gas Wells,

by Year of Production Start



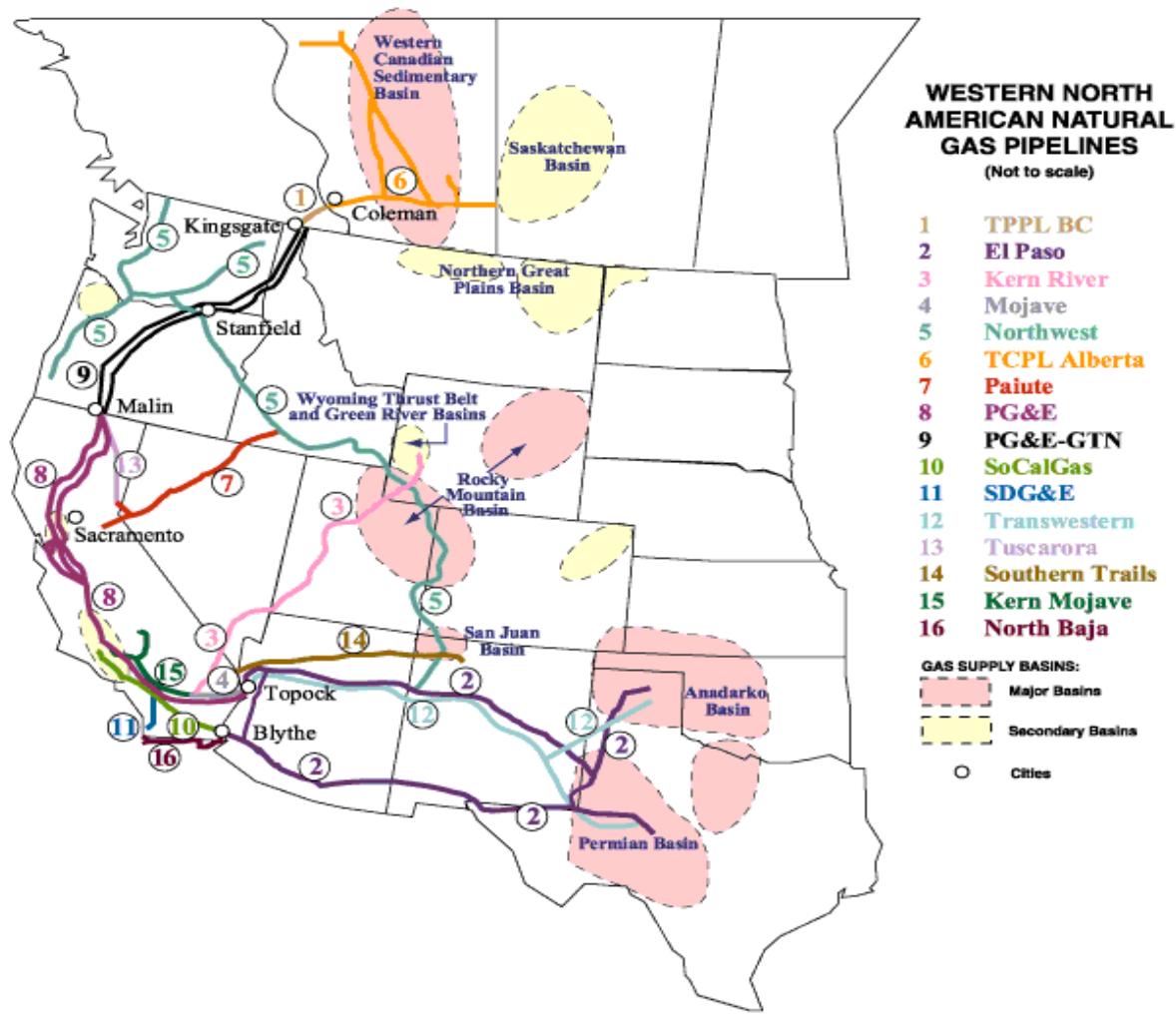


# Infrastructure Status

- Kern River Pipe Expansion completed May 03
- Wild Goose Storage Expansion completed Nov 03
- California has ample surplus infrastructure capacity for this winter

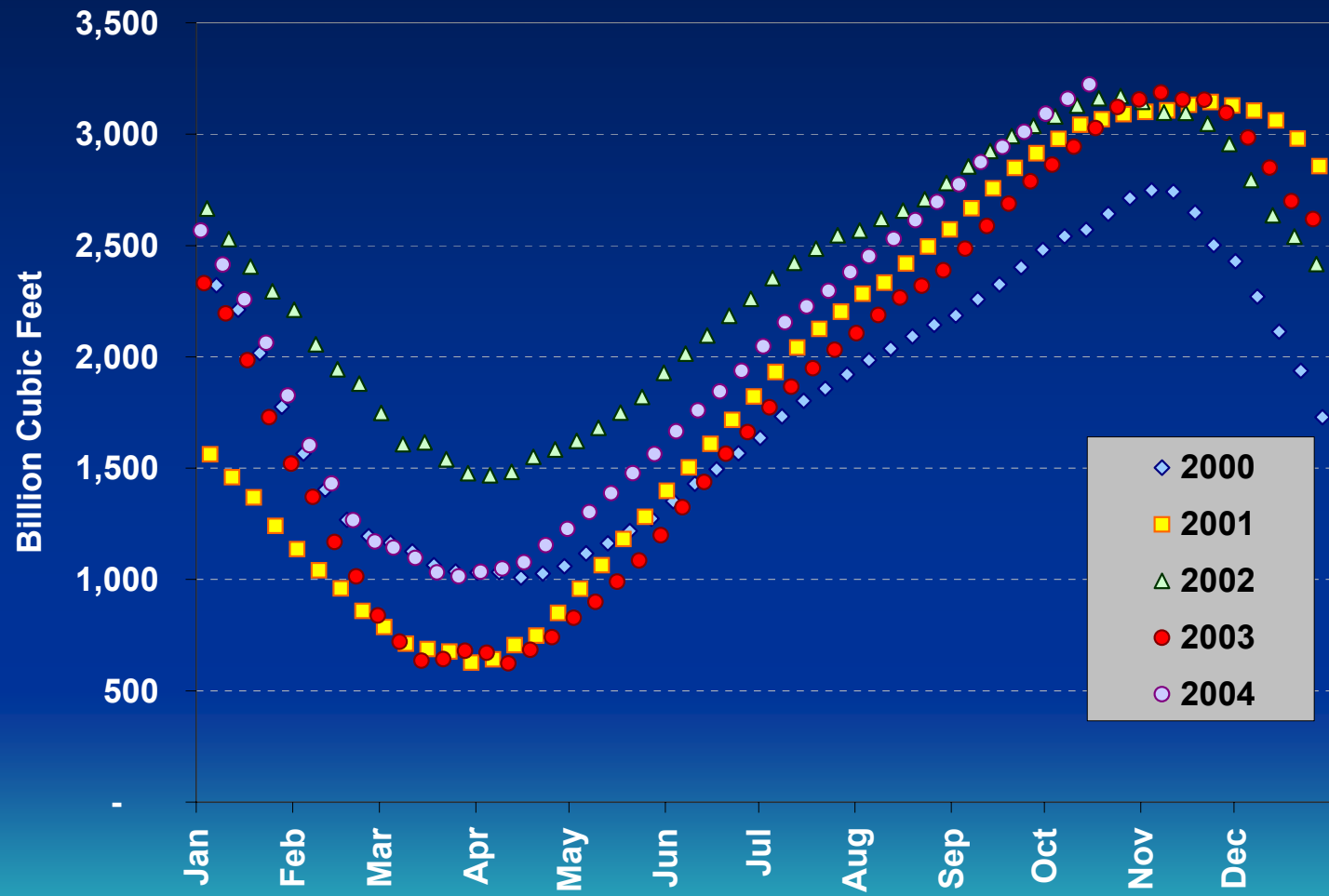


# Western Infrastructure Status





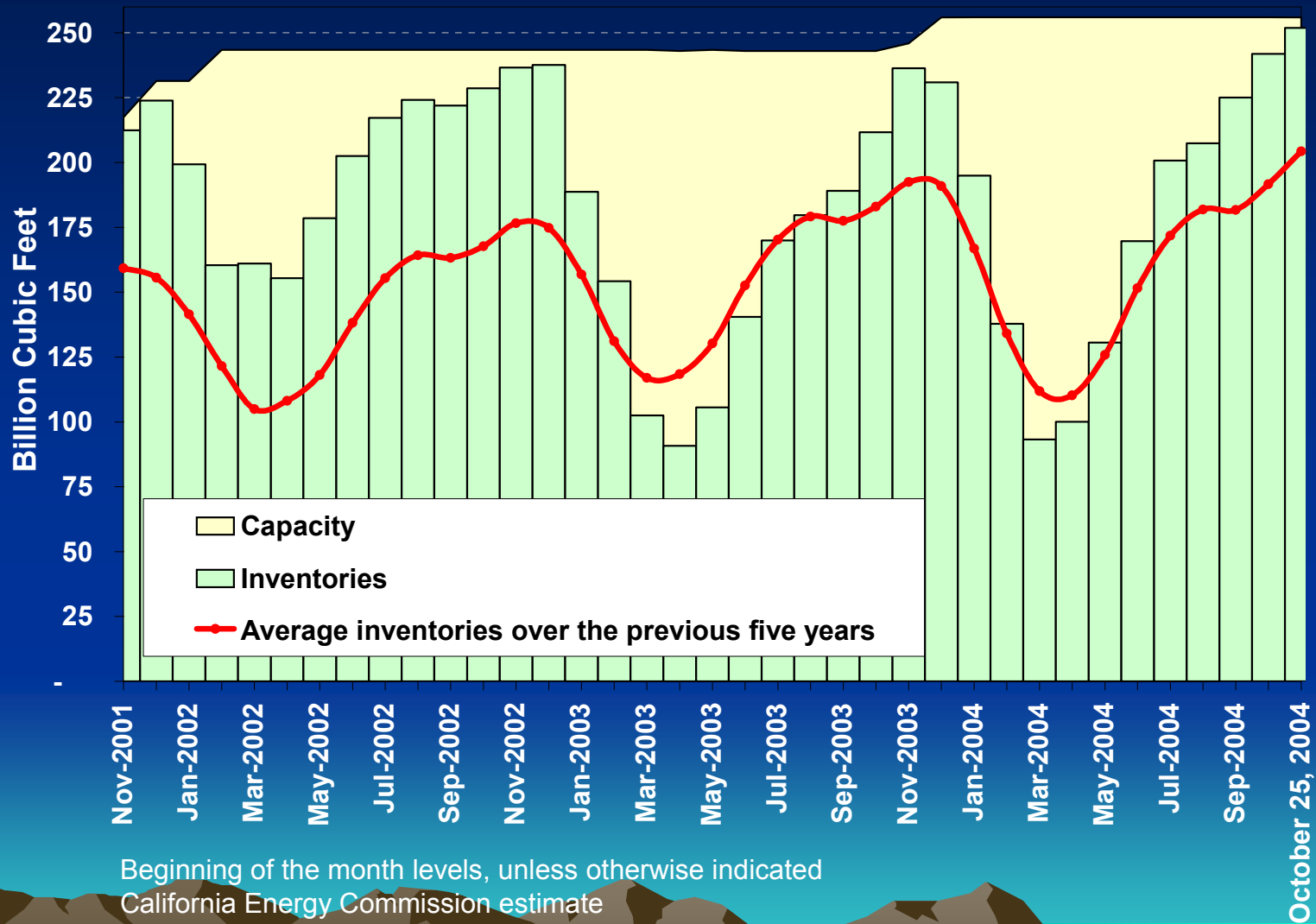
# U.S. Natural Gas Storage



Sources: EIA/AGA



# California Natural Gas Storage



Beginning of the month levels, unless otherwise indicated  
California Energy Commission estimate

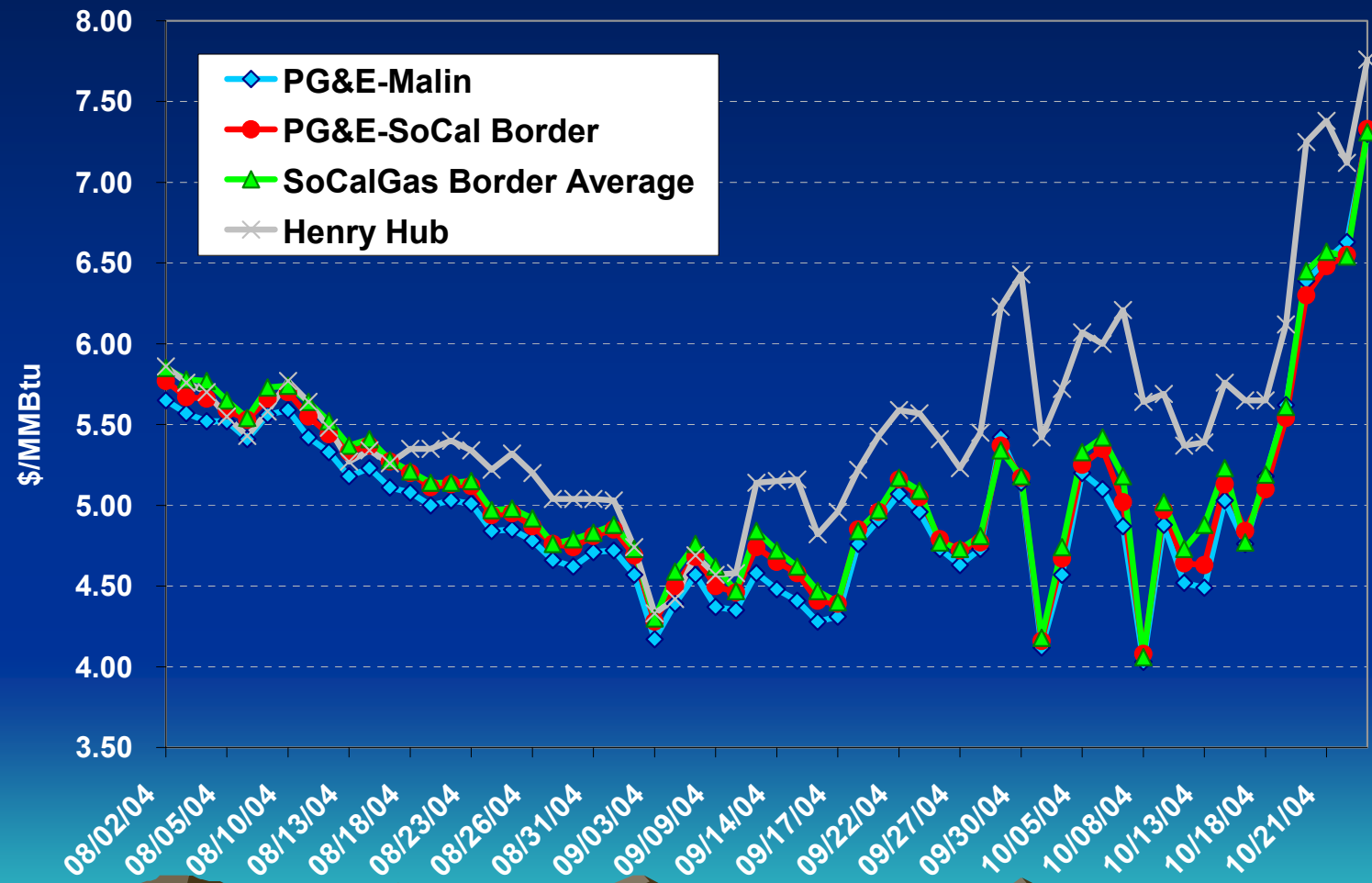


# NG Price Outlook

- California doesn't predict absolute market prices
- California tracks many drivers of market prices
- NG fundamentals don't appear to support current market prices
- Other drivers have been used to explain current market price levels
- California is planning to pay higher prices



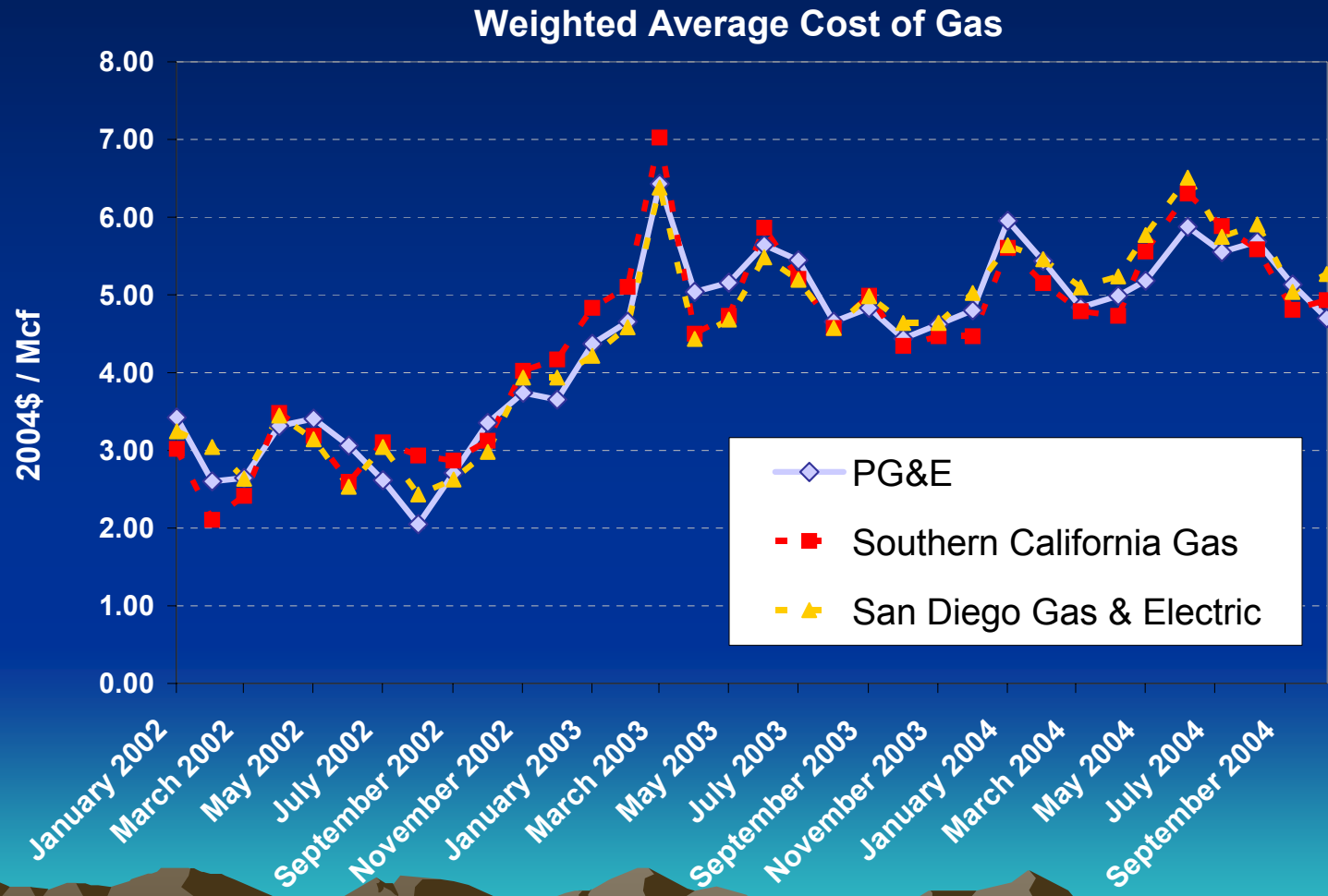
# Daily Natural Gas Spot Prices







# California's NG Context Prices to Consumers





# Actions for State Commissions

- Short term for this winter
  - Energy efficiency
  - Energy efficiency
  - Energy efficiency



# Actions for State Commissions

- Energy efficiency
  - Focus on natural gas **and** electricity
- Energy efficiency
  - Increase program funding, effectiveness, and choices
- Energy efficiency
  - Establish an aggressive public information campaign



# Actions for State Commissions

- Mid term
  - Renewable energy programs
  - Demand response programs
  - Assess NG infrastructure adequacy on a regional basis
    - Deliverability
    - Pipe
    - Storage
    - Financial hedges
    - Risk management programs
  - Help ensure supplies exceed demand



## Concluding Remarks

- Fundamentals: Western supply, demand, and infrastructure look good and don't support current level of market prices
- Market Prices: the reality of current and near term prices can only be explained by other market drivers
- Western Outlook: the West should not contribute to any potential price run ups this winter
- Energy Efficiency: this tool remains the most effective short term method to help consumers manage their bills



Thank you.

Questions?



# West Coast LNG Proposals

