



**California Energy Commission**

# **Natural Gas Issues, Trends, and Forecast Scenarios Workshop**

**2013 IEPR  
Hearing Room A**

**July 17, 2013  
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## Purpose of Workshop

- Results of forecast scenarios
- Stakeholder input
  - Demand changes - effects on infrastructure
  - Supply trends - shale development



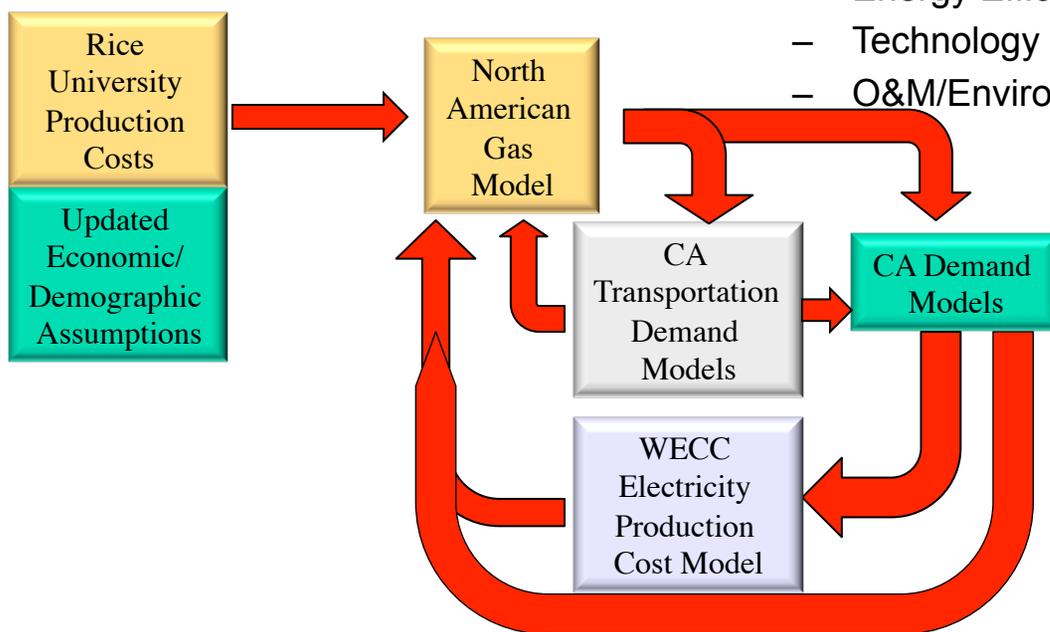
## Modeling Framework & Iterative Modeling Process

- **Iterative process**

- Demand Forecasts
- Electricity Dispatch
- NG Vehicle
- Natural Gas – NAMGas Model

- **Variables for NAMGas**

- Economic/Demographic
- Imports/Exports
- RPS
- CHP, DG, Electric Generation
- Energy Efficiency
- Technology Improvements
- O&M/Environmental Costs





# Modeling Major Gas Issues

- Hydraulic Fracturing
- Innovation
- Gas/Electric System Interaction
- California Policy



# Agenda

- **Morning**
  - Results of six cases for CA and the WECC from PLEXOS
  - Highlights of 3 Common Cases – Reference, High Demand Low Demand
  - Highlights of 3 Alternative Cases –Policy, NG/Electric Integration, Low Innovation
  - Panel Discussion - Gas Demand and Infrastructure Issues
- **Afternoon**
  - Present results of Shale Cases – 16 variations on cost and development
  - Panel Discussion - Gas Supply Issues
  - Public Comment