Panel on Preparations for Los Angeles Basin Gas-Electric Reliability and Market Impacts (AD16-21-000) Southern California Edison

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## SCE's Link to CAISO and SoCalGas Systems

SCE is the 2<sup>nd</sup> largest load serving entity in CAISO
Up to 40% of average CAISO system load

- SCE is Scheduling Coordinator for nearly 50% of the SoCaGas-connected generators in CAISO
  - $\approx$  6,600 MWs across 36 resources
- SCE is SoCalGas' largest customer in the summer
  - Up to 30% of peak-day SoCalGas system loads

## Stakeholder Developed Tools for Coordination and Mitigation

- Gas balancing rules that allow for max electric flexibility
  - Use flexible Operational Flow Orders (OFOs) instead of 5% daily balancing requirement
- ISO market enhancements to effectively manage gas restrictions including:
  - 2 day ahead advisory commitment/dispatch of SCG units
  - New volumetric and balancing constraints in market optimization
  - Enhanced bidding rules to account for intra-day changes in gas availability

## Actions to Reduce Potential Curtailments

- SCE is evaluating potential to accelerate deliveries from new electric supply resources
- SCE is increasing customer participation in Demand Response (DR) and Energy Efficiency (EE)
  - SCE launched an RFI to solicit ideas for new DR and EE programs
- SCE launched an RFO for resources that can import flexible energy into the CAISO's real-time (15 min) market
- SCE supports the limited use of the existing 15 Bcf of natural gas in Aliso Canyon to avoid power outages this summer

## **Operational Impacts to SCE**

Increased potential for gas OFO/Emergency Flow Order

 Modifying internal gas forecasting and procurement procedures to incorporate CAISO 2-day ahead forecast

Higher likelihood of constrained CAISO market outcomes

- Enhancing bidding process to timely reflect resource availability in realtime markets
- Increased chance of electric system load interruptions
  - Accelerating customer outreach to inform and assist in preparations for potential service interruptions