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California ISO

Natural Gas Price Impacts on the Electric Generation Market

Mark Rothleder

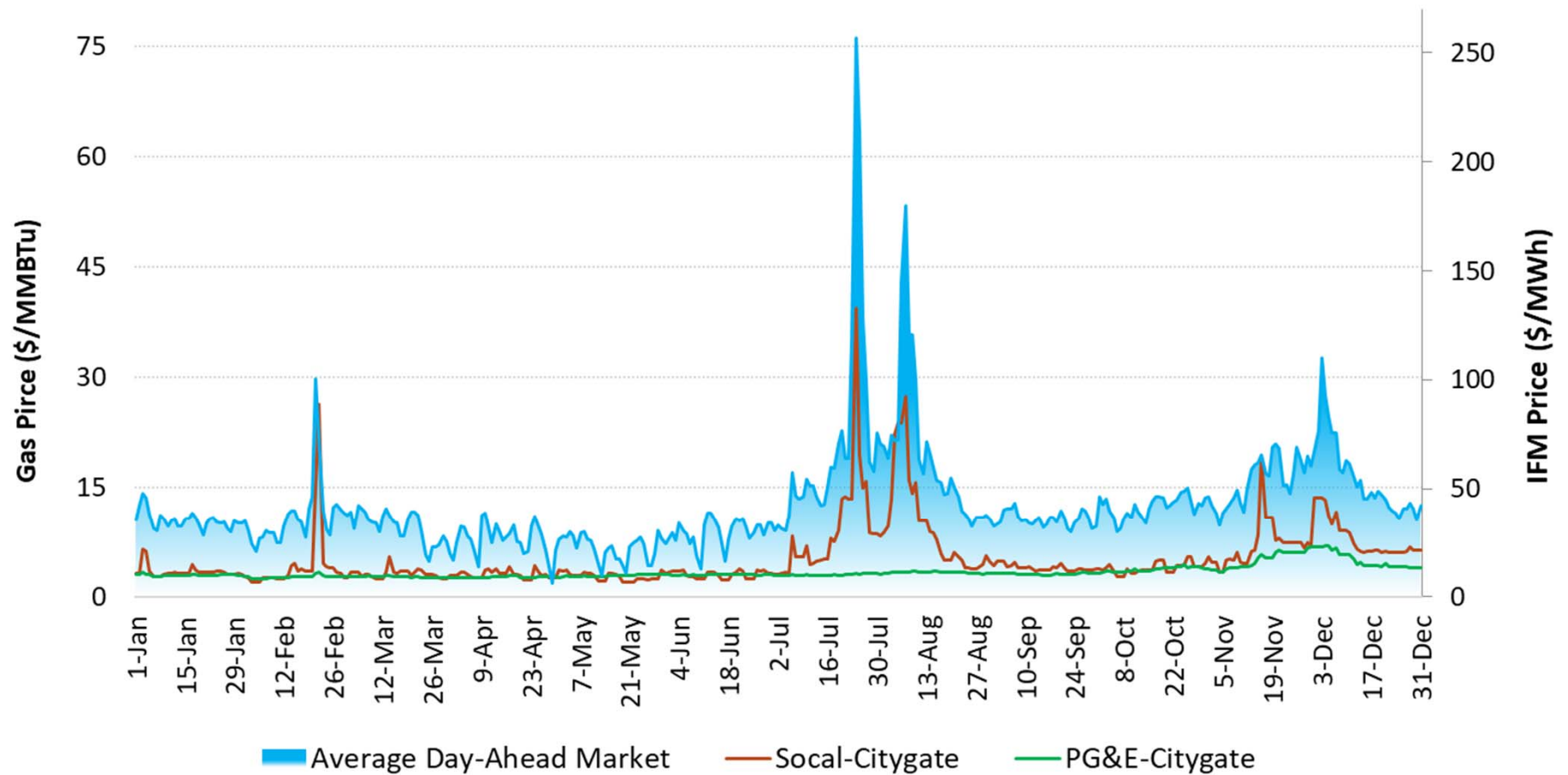
VP Market Quality and Renewable Integration

January 11, 2019

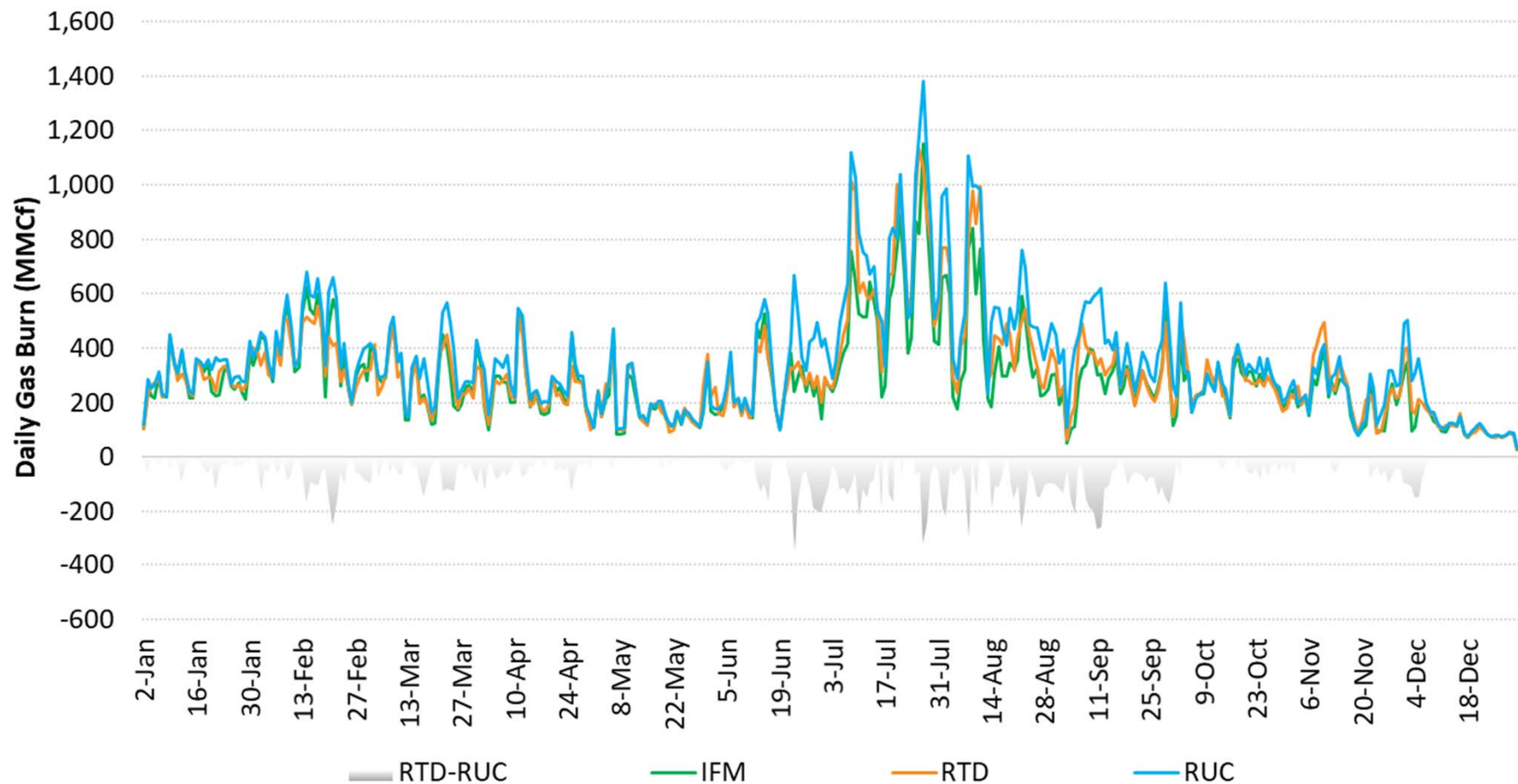
Joint Agency Workshop on

Southern California Natural Gas Prices

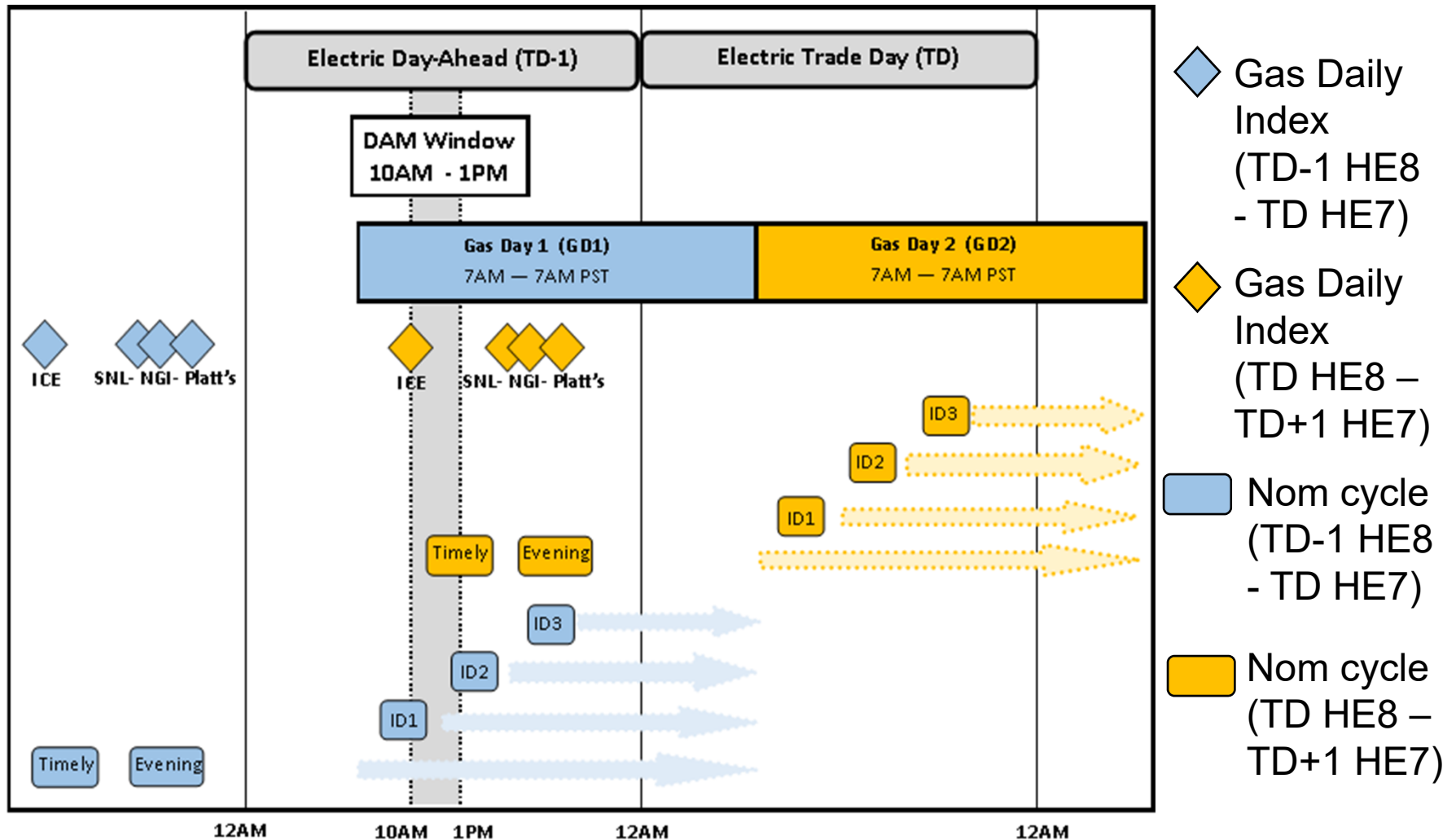
Electric Prices influenced by gas price trends



CAISO tracks projected and actual gas burn from electric generation



Background - Alignment natural gas & electric markets



Gas and Electric Operational Coordination

- Seasonal Assessment
 - Perform seasonal assessment of minimum electric generation level is Southern California
- Daily
 - Forecast gas burn for 2 days out
 - Coordinate with gas and other electric operators to assess potential gas constraints that may be incorporated into the Day-Ahead Market run
 - Communicate scheduled gas burn based on Day-ahead Market at 1pm, TD-1
- Real-Time
 - Update expected gas burns
 - Assess potential for intra-day constraints or requests for curtailment