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

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SOCALGAS SYSTEM MAP WITH SDG&E



Los Angeles Basin & Electric Generation Plants



Receipt Point & Transmission Zone firm Capacities



Curtailment Settlement Summary

- On April 28, 2016, SoCalGas, SDG&E, the CAISO, and four other parties submitted a proposed settlement to the CPUC to effectuate curtailments in a more localized manner.
- The new rules would curtail noncore customers in one or more of 10
 defined local service zones in the following order:
 - 1. Dispatchable EG not forecasted to be on when a curtailment order is effective
 - Up to 60% of currently dispatched operating EG in the winter (Nov – Mar) and 40% in summer (Apr – Oct)
 - 3. Up to 100%, pro-rata cogen and non-EG noncore (refineries will have a pre-established minimum usage requirement)
 - 4. Up to 100% of the remaining refinery load not curtailed in the previous steps and the remaining dispatchable EG load, on a pro rata basis

Short-Term Reliability Procedures

- On April 29, 2016, SoCalGas, SDG&E, CAISO and other parties filed a settlement agreement with the CPUC regarding procedures to help deal with service reliability issues this upcoming summer
- During the settlement term, which would end no later than November 30, 2016, SoCalGas and SDG&E will deal with supply shortages and surpluses using Operational Flow Order (OFO) tariff procedures rather than daily balancing procedures
- These provisions are a positive step forward, but may not prevent gas curtailments or power outages
- OFO's are likely to be called more frequently
- Low OFOs and High OFOs may be called on the same day

Gas Forecast & Daily Gas Demand Profile Typical Average EG Day

- Long Term Forecast of Annual Gas Demand: flat to declining
- CAISO analysis of the impact of the increased use of renewables suggests a lower base load in the "belly" of the "duck curve" however, peak capacity requirements remain the same for electric generation and for peak gas demand





The Role of Storage in Reliability



Actions Underway to Safely Restore Aliso

WELL INSPECTION PROCESS

PRIORITIZE

ASSESS

PRIORITIZE:

- Configured for injection and withdrawal through tubing only
- Locations with highest capacity
- Condition of surface hardware

ASSESS:

- Temperature & Noise Tests
- Additional DOGGR required tests:
 - Casing Wall Inspection
 - Cement Bond Log
 - Multi-Arm Caliper Inspection
 - Pressure Test

RETURN TO SERVICE:

• Diagnostics complete; well certified by DOGGR to return to service

RETURN TO SERVICE

- Diagnostics complete; well to be temporarily plugged
- Aliso Canyon field receives overall certification from DOGGR to return to service