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CPUC's Aliso Canyon Order Instituting Investigation (I.17-02-002)

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Aliso Canyon Oll Phase 2: Overview

- The CPUC opened Investigation, I.17-02-002, to assess the feasibility of minimizing or eliminating Aliso Canyon while still maintaining energy reliability and just and reasonable rates.
- Modeling inputs incorporate all of California's current climate goals and the current assumptions about future electricity procurement in the Integrated Resources Plan.
- Modeling results indicate that Aliso Canyon cannot yet be eliminated without jeopardizing gas and electric reliability and customer rates given current rules and infrastructure.
- These results will inform the CPUC's Phase 2 Decision.

Aliso Canyon: Phase 2 Modeling Results

- Volatility Analysis: Gas prices became more volatile in 2017 and more so in 2018.
- Difference in Differences Study: Total impact of the loss of Aliso Canyon on SoCalGas core customers averaged \$102M /year from 2016-18.
- Implied Market Heat Rate (IMHR) and Excess Electric Costs Study: Electric customers paid \$916M in excess power costs in 2018.

- Assessed whether eliminating Aliso would cause significant reliability impacts.
- Showed that there would be significant reliability concerns if electric generators were curtailed to Minimum Local Gen level.
- Electric costs estimated to increase if electric generation was curtailed due to increased power imports.

- Summer peak demand could be met without Aliso in 2020, 2025, and 2030.
- Aliso is not needed to meet reliability under 1-in-35 winter extreme peak day conditions.
- Aliso is needed for reliability under 1-in-10 winter peak demand conditions.
- Results suggest three potential max. allowable Aliso inventory levels:
 - 41.2 Bcf, 54.9 Bcf, or 68.6 Bcf

Aliso Canyon Proceeding, Phase 3: Overview

- Purpose: Assess potential for replacement of Aliso Canyon storage field in 2027-2045
- Analysis contracted out to FTI Consulting, Inc
 - Draft baseline analysis completed: hydraulic modeling of 2027 and 2035 winter day gas shortfall without Aliso Canyon
 - Cost-benefit analysis in progress: 20-year economic analysis of 5 "portfolios" of resources to replace Aliso
 - Software: GPCM, PLEXOS
 - Demand: 2020 CA Gas Report
 - Draft results and report forthcoming at workshops later this summer/fall

Aliso Canyon Proceeding, Phase 3: Preliminary Results

- Selected preliminary results from FTI's analysis:
 - Non-Aliso Canyon gas storage fields are sufficient to meet seasonal (monthly average) gas demand in 2027-2028 and beyond, even in a cold year
 - Based on monthly gas balance analysis shown in March 30 workshop
 - Aliso Canyon or replacement resources are needed to meet gas demand on a forecasted 1-in-10 winter peak demand day in 2027 and 2035

Aliso Canyon Proceeding, Phase 3: Portfolios



Includes the addition of the electric transmission portfolio, which was added in response to comments received during and after the November Workshop.

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presentation, available at https://www.cpuc.ca.gov/alisooii/.