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Summer 2021 Southern California Reliability Assessment

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California Public
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Outline

- Supply Outlook
- Gas Balance Scenarios
- Actual Outcomes
- Summer Peak Day Analysis

Supply Outlook

- Transmission Pipelines:
 - Line 4000 assumed to be out of service from May 1-Sept 30, resulting in a reduction of 120 MMcfd to the Northern Zone.
- Gas Storage:

Bcf	March 31, 2020	March 31, 2021
Combined Non-Aliso	34.1	35.1
Aliso Canyon	17.8	17.5
Total	51.9	52.6

Gas Balance – Summary of Scenarios

- Gas balance scenarios include the following limitations:
 - Scheduled low-inventory shut ins; and
 - TCAP storage injection rules.
- Base Hydro Scenario:
 - Non-Aliso fields could become full in June; Aliso could become full in July.
 - Withdrawals are needed in August and September.
 - All four fields are slightly drawn down by October.
- Cold Year/Dry Hydro Scenario:
 - Non-Aliso fields become full in June; Aliso does not reach its max. allowable capacity.
 - Withdrawals are needed in July, Aug, Sept.
 - All four storage fields are significantly drawn down by October.

Comparison of Gas Balance Predictions to Actual Outcomes

- Gas Balance Scenarios:
 - In both the Base Hydro and the Cold Year/Dry Hydro cases, the non-Aliso fields become full by the end of June.
 - No withdrawals needed in May and June.
- Actual Outcomes:
 - As of June 30, the combined non-Aliso fields were 90% full and Aliso Canyon was 87% full.
 - Actual injection patterns in May and June were similar to gas balance injection assumptions.
 - Lower actual non-Aliso inventory levels can be attributed to withdrawals in May and June.
 - June saw record-breaking temperatures, which required withdrawals mostly from the non-Aliso fields.

Summer Peak Day Analysis

- Summer High Demand Day with Line 4000 out of service and Aliso Canyon available:

	(a) Summer Peak Day Demand	(b) Pipeline Capacity	(c) Projected Withdrawal Capacity	(d) Projected System Capacity (d=b+c)	(e) Surplus/ Shortfall (e=d-a)
September	3,160	2,675	1,240	3,915	755

- Summer High Demand Day with Line 4000 out of service and Aliso Canyon unavailable:

	(a) Summer Peak Day Demand	(b) Pipeline Capacity	(c) Projected Non-Aliso Withdrawal Capacity	(d) Projected System Capacity (d=b+c)	(e) Surplus/ Shortfall (e=d-a)
September	3,160	2,675	750	3,425	265