

**DOCKETED**

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# **Southern California Natural Gas 2019/2020 Winter Outlook**



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# Overview

- Current pipeline update
- Current storage inventory levels
- Supply Assumptions for Gas Balance Analysis
- Gas Balance Analysis Scenarios
- Winter 2019/2020 Outlook



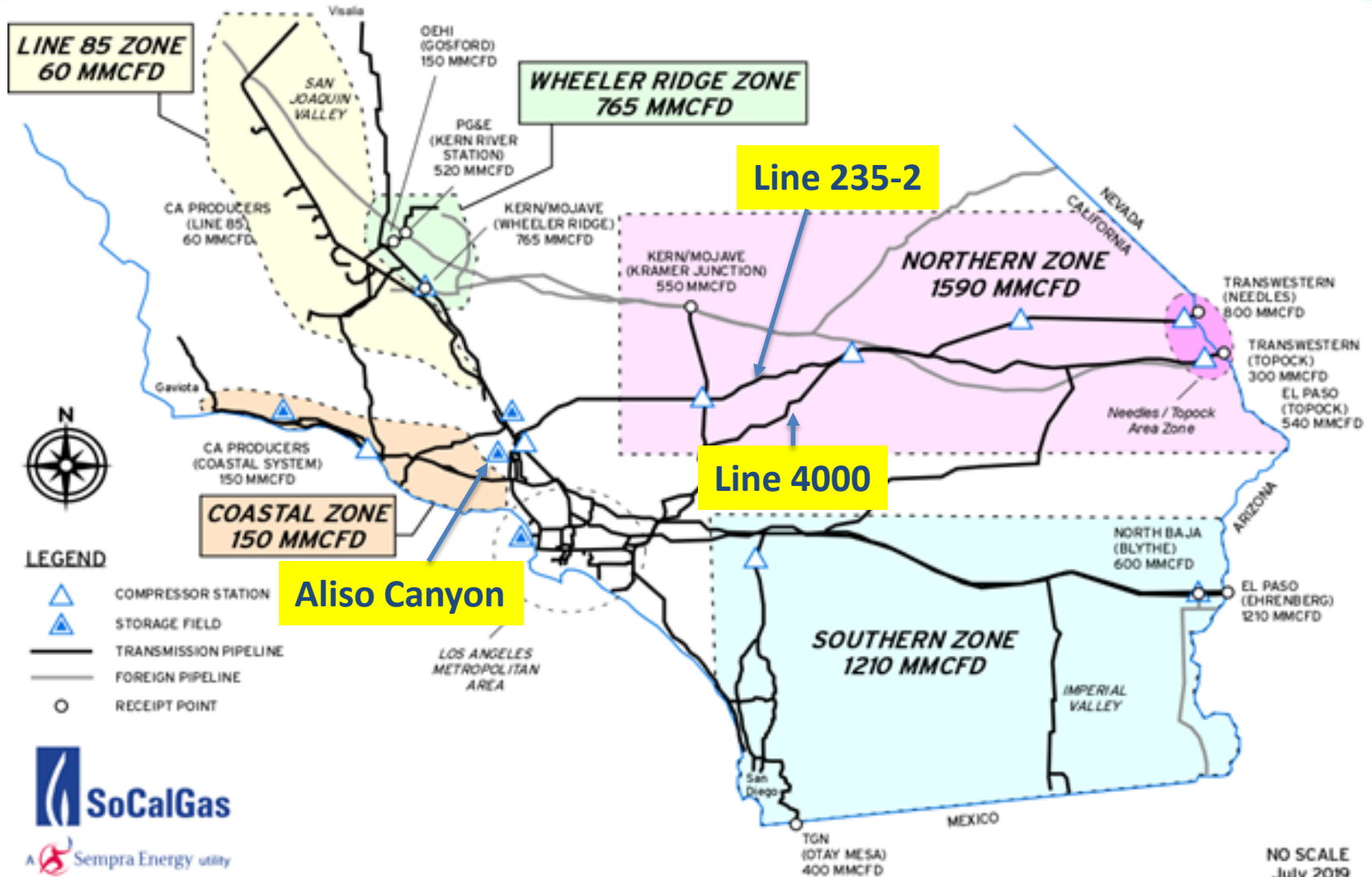
# Line 235-2 and Line 4000 Back Online!

- Line 235-2 returned to service October 15 at reduced operating pressure
- Line 4000 returned to service October 24 at reduced operating pressure
- Northern Zone capacity

	<b>Winter 2018/2019</b>	<b>Current Winter 2019/2020</b>	<b>2018 California Gas Report</b>
<b>MMcfd</b>			
Northern Zone Supply	870	990	1,590



# Pipeline Constraints Continue in the Northern Zone





# SoCalGas Storage Inventory Nearly the Same as Last Year

- Total SoCalGas storage inventory as of October 28 – 77.3 Bcf
  - Aliso Canyon is full at allowed capacity of 34 Bcf
  - Other three fields (Honor Rancho, La Goleta, Playa Del Rey) are not full at 43.2 Bcf
- Winter 2018/2019 reached 80.5 Bcf on November 1, 2018



# CPUC and SoCalGas Gas Balance

	<b>Assumptions</b>	<b>CEC</b>	<b>CPUC</b>	<b>SoCalGas</b>	<b>Notes</b>
1	Discounting pipeline supply	No	No	Yes	85% Best Case/90% Worst Case
2	Line 4000 return to service	15-Nov	4-Nov	in/out	Returned to service Oct. 24. SoCalGas Best Case assumes increasing supply Feb. 2020
3	<i>Supply Assumptions (MMcfd)</i>				
4	Otay Mesa	30	30-50	0-230	
5	Wheeler Ridge	765	780-800	765	
6	California Production	60	60	70	
7	Kramer Interruptible	75	150-188	150	



# Gas Balance Results Comparison

## Likely Scenario Shows No Curtailments and Sufficient Inventory

	Pipelines	Weather	CEC			CPUC			SoCalGas		
			Nov 1 Inventory MMcfd	Mar 31 Inventory MMcfd	Curtailments	Nov 1 Inventory MMcfd	Mar 31 Inventory MMcfd	Curtailments	Nov 1 Inventory MMcfd	Mar 31 Inventory MMcfd	Curtailments
1	Both lines in service	Normal	80	62	No	81	78	No	77	56	No
2	One line in service	Normal	76	53	No	78	67	No	N/A	N/A	N/A
3	Both lines out of service	Normal	76	26	No	79	49	No	77	-2	Yes, Jan-Mar
4	Both lines in service	1-in-35, dry hydro	79	36	No	79	44	No	77	19	Yes, Jan-Feb
5	One line in service	1-in-35, dry hydro	74	20	No	77	31	No	N/A	N/A	N/A
6	Both lines out of service	1-in-35, dry hydro	74	15	Yes, Jan-Mar	77	10	Yes, Feb-Mar	77	-39	Yes, Jan-Mar
7	Both lines out of service	hybrid	N/A	N/A	N/A	79	26	No	N/A	N/A	N/A
8	Both lines in service	Hot	N/A	N/A	N/A	N/A	N/A	N/A	77	82	No
9	Both lines out of service	Hot	N/A	N/A	N/A	N/A	N/A	N/A	77	24	No





# Winter 2019/2020 Outlook - Best Outlook in Three Winters

- Reliability outlook is better than last winter
- Pipeline constraints continue through this winter
- Use of Aliso Canyon may be necessary
- Core reliability is not projected to be at risk
- Risk to noncore curtailments is diminished with both lines in service
- Electric reliability can be maintained
- Pipelines return to service is key to improving reliability
  - CEC and CPUC - only case with curtailments is cold weather 1-in-35 year winter with both lines out of service



Questions?

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