

Year 2007 LCR Study San Diego Area

Summary of Findings

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San Diego LCR Area





San Diego Area Boundary Substations

- Miguel
- San Luis Rey
- Talega



San Diego Area Boundary Transmission Lines

- 1) Imperial Valley Miguel 500 kV Line
- 2) Miguel Tijuana 230 kV Line
- 3) San Onofre San Luis Rey #1 230 kV Line
- 4) San Onofre San Luis Rey #2 230 kV Line
- 5) San Onofre San Luis Rey #3 230 kV Line
- 6) San Onofre Talega #1 230 kV Line
- 7) San Onofre Talega #2 230 kV Line



San Diego Area Load and Resources (MW)

Load	
Year 2007 Load	4637
Transmission Losses	105
Total 1 in 10 Load	4742
Generation	
Market Generation	2742
Muni Generation	0
QF Generation	191
Total Qualifying Capacity	2933
SDG&E Non-simultaneous Import capability	2500
with a segment of SWPL Out	

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SDG&E Non-simultaneous Import Capability





SDG&E Non-simultaneous Import Capability

 The non-simultaneous SDG&E import capability of 2500 MW North-South on WECC Path 44 from San Onofre is based on contingency operating conditions (a segment of SWPL (Imperial Valley-Miguel) out).



SDG&E LCR Critical Contingency

- The overall LCR in the San Diego area is determined by the outages of the Imperial Valley-Miguel 500 kV line (SWPL) overlap with the Palomar generation (541 MW) while staying within the South of San Onofre (WECC Path 44) nonsimultaneous import capability rating of 2500 MW.
- Therefore, the overall SDG&E LCR is predicated on having sufficient generation in the San Diego Area to reduce Path 44 to its non-simultaneous rating of 2500 MW within 30 minutes.



San Diego Area LCR

	QF	Wind	Market	Max. Qualifying
	(MW)	(MW)	(MW)	Capacity (MW)
Available generation	181	10	2742	2933

	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Requirement
Category B (Single)	2781	0	2781
Category C (Multiple)	2781	0	2781



San Diego Area Overall LCR for years 2007 and 2006

• Because the load growth in the San Diego Area, the overall LCR for year 2007 increased comparing with the LCR for year 2006.



Stakeholder Comments

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